

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34

STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

TO: JULIAN COMMUNITY SERVICES DISTRICT
P.O. BOX 681
JULIAN, CA 92036

ATTN: MR. HARRY SEIFERT, GENERAL MANAGER

CITATION NO. 05-14-15C-003
ISSUED ON OCTOBER 5th, 2015

FOR VIOLATION OF

CALIFORNIA HEALTH AND SAFETY CODE, Sec. 116555(a)(1), 116650
CALIFORNIA CODE OF REGULATIONS, Title 22, Sec. 64556(a)
CALIFORNIA CODE OF REGULATIONS, Title 17, Sec. 7605(c)
CALIFORNIA CODE OF REGULATIONS, Title 22, Sec. 64432(c), 64432.1, 64432.3(c)
CALIFORNIA CODE OF REGULATIONS, Title 22, Sec. 64442(b)&(c)
CALIFORNIA CODE OF REGULATIONS, Title 22, Sec. 64445(b)&(c)
CALIFORNIA CODE OF REGULATIONS, Title 22, Sec. 64449(b)&(c)
CALIFORNIA CODE OF REGULATIONS, Title 22, Sec. 64669(c)

by

JULIAN COMMUNITY SERVICES DISTRICT
WATER SYSTEM NO. 3700909

Section 116650 of the California Health and Safety Code (CHSC) authorizes the issuance of a citation to a public water system for violation of the California Safe Drinking Water Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with Section 116270) (hereinafter "California SDWA"), or any regulation, standard, permit or order issued or adopted thereunder.

1 The State Water Resources Control Board (hereinafter “Board”), acting by and through
2 its Division of Drinking Water (hereinafter “Division”) and the Deputy Director for the
3 Division (hereinafter “Deputy Director”), hereby issues a citation to Julian Community
4 Services District (hereinafter, Julian CSD, 2656 Farmer Rd, Julian, CA 92036) for
5 violation of the sections described below from the California Health and Safety Code
6 (H&S Code) and Title 22 of the California Code of Regulations (CCR).

7
8 **APPLICABLE AUTHORITIES**

9 **Section 116650 of California Health and Safety Code provides:**

10 116650. Citations.

11 (a) If the department determines that a public water system is in violation of this
12 chapter or any regulation, permit, standard, citation, or order issued or adopted
13 thereunder, the department may issue a citation to the public water system. The
14 citation shall be served upon the public water system personally or by certified
15 mail. Service shall be deemed effective as of the date of personal service or the
16 date of receipt of the certified mail. If a person to whom a citation is directed
17 refuses to accept delivery of the certified mail, the date of service shall be
18 deemed to be the date of mailing.

19 (b) Each citation shall be in writing and shall describe the nature of the violation or
20 violations, including a reference to the statutory provision, standard, order,
21 citation, permit, or regulation alleged to have been violated.

22 (c) A citation may specify a date for elimination or correction of the condition
23 constituting the violation.



1 (d) A citation may include the assessment of a penalty as specified in (e).

2 (e) The department may assess a penalty in an amount not to exceed one
3 thousand dollars (\$1,000) per day for each day that a violation occurred, and for
4 each day that a violation continues to occur. A separate penalty may be assessed
5 for each violation.

6
7 **Section 116550 of California Health and Safety Code provides:**

8 116550. Changes requiring amended permit.

9 (a) No person operating a public water system shall modify, add to or change his
10 or her source of supply or method of treatment of, or change his or her distribution
11 system as authorized by a valid existing permit issued to him or her by the
12 department unless the person first submits an application to the department and
13 receives an amended permit as provided in this chapter authorizing the
14 modification, addition, or change in his or her source of supply or method of
15 treatment.

16
17 **Section 116555(a)(1) of the Health and Safety Code provides:**

18 116555. Operational Requirements.

19 (a) Any person who owns a public water system shall ensure that the system
20 does all of the following:

21 (1) Complies with primary and secondary drinking water standards.
22
23



1 **California Code of Regulations, Title 22, Section 64556(a) provides, in relevant**
2 **part:**

3 (a) An application for an amended domestic water supply permit shall be
4 submitted to the Department prior to any of the following.

5 (3) Modification of the water supply by:

6 A. Adding a new source;

7 B. Changing the status of an existing source (e.g., active to
8 standby); or

9 C. Changing or altering a source, such that the quantity or quality of
10 supply could be affected.

11
12 **California Code of Regulations, Title 17, Section 7605(c) provides, in relevant part:**

13 (c) Backflow preventers shall be tested at least annually or more frequently if
14 determined to be necessary by the health agency or water supplier. When
15 devices are found to be defective, they shall be repaired or replaced in
16 accordance with the provisions of this Chapter.

17
18 **California Code of Regulations, Title 22, Section 64432(c) provides, in relevant**
19 **part:**

20 64432. Monitoring and Compliance – Inorganic Chemicals

21 (c) Unless more frequent monitoring is required pursuant to this Chapter, the
22 frequency of monitoring for the inorganic chemicals listed in table 64431-A, except
23 for asbestos, nitrate/nitrite, and perchlorate, shall be as follows:



1 (1) Each compliance period (3 years), all community and nontransient-
2 noncommunity systems using groundwater shall monitor once during the
3 year designated by the Department.
4

5 **California Code of Regulations, Title 22, Section 64432.1 provides, in relevant part:**

6 64432.1. Monitoring and Compliance – Nitrate and Nitrite

7 (a) To determine compliance with the MCL for nitrate in Table 64431-A, all public
8 water systems using groundwater shall monitor annually.

9 (b) All public water systems shall monitor to determine compliance with the MCL
10 for nitrite in Table 64431-A, by taking one sample at each sampling site during the
11 compliance period (3 years) beginning January 1, 1993.
12

13 **California Code of Regulations, Title 22, Section 64432.3(c) provides, in relevant**
14 **part:**

15 64432.3. Monitoring and Compliance – Perchlorate

16 (c) After meeting the initial monitoring requirements in subsection (a) and if no
17 perchlorate is detected, during each compliance period (3 years) each water
18 system:

19 (1) Using groundwater, shall monitor once during the year designated by
20 the Department.
21
22
23



1 **California Code of Regulations, Title 22, Section 64442(b) and (c) provide, in**
2 **relevant part:**

3 64442. MCLs and Monitoring - Gross Alpha Particle Activity, Radium-226, Radium-228,
4 and Uranium

5 (b) Each system shall monitor to determine compliance with the MCLs in table
6 64442, as follows:

7 (3) By December 31, 2007, complete initial monitoring that consists of four
8 consecutive quarterly samples at each sampling site for each radionuclide
9 in table 64442.

10 (B) For gross alpha particle activity, uranium, radium-226, and
11 radium 228, the Department may waive the final two quarters of
12 initial monitoring at a sampling site if the results from the previous
13 two quarters are below the DLR(s) and the sources are not known to
14 be vulnerable to contamination.

15 (c) Any new system or new source for an existing system shall begin monitoring
16 pursuant to subsection (b) within the first quarter after initiating waters service to
17 the public.

18
19 **California Code of Regulations, Title 22, Section 64445(b) and (c), provide, in**
20 **relevant part:**

21 64445.1. Monitoring and Compliance – Organic Chemicals

22 (b) When organic chemicals are not detected pursuant to Table 64445.1-A.
23



1 (1) A water system which has not detected any of the VOCs on Table
2 64444-A during the initial four quarters of monitoring, shall collect and
3 analyze one sample annually. After a minimum of three years of annual
4 sampling with no detection of a VOC in Table 64444-A, a system using
5 groundwater may reduce the monitoring frequency to one sample during
6 each compliance period (3 years).

7 (3) A system serving 3,300 persons or less which has not detected an SOC
8 on Table 64444-A during the initial four quarters of monitoring shall collect
9 a minimum of one sample for that SOC during the year designated by the
10 Department of each subsequent compliance period (3 years).

11 (c) When organic chemicals are detected pursuant to Table 64445.1-A.

12 (4) If the detected level of organic chemicals for any sampling site does
13 not exceed any shown in Table 64444-A, the water source shall be
14 resampled every three months and the samples analyzed for the detected
15 chemicals.

16
17 **California Code of Regulations, Title 22, Section 64449(b) and (c), provide, in**
18 **relevant part:**

19 (b) Each community water system shall monitor its groundwater sources ... every
20 three years and its effluent of source treatment annually for the following:

- 21 (1) Secondary MCLS listed in Tables 64449-A and 64449-B; and
22 (2) Bicarbonate, carbonate, and hydroxide alkalinity, calcium, magnesium,
23 sodium, pH, and total hardness.



1 (c) If the level of any constituent in Table 64449-A exceeds an MCL, the
2 community water system shall proceed as follows:

3 (1) If monitoring quarterly, determine compliance by a running annual
4 average of four quarterly samples;

5 (2) If monitoring less than quarterly, initiate quarterly monitoring and
6 determine compliance based on the basis of an average of the initial
7 sample and the next three consecutive quarterly samples collected.

8
9 **California Code of Regulations, Title 22, Section 64469(c), provides, in relevant**
10 **part:**

11 64469. Reporting Requirements

12 (c) Analytical results shall be reported to the State Board electronically using the
13 Electronic Deliverable Format (Electronic Data Transfer – EDT).

14
15 **STATEMENT OF FACTS**

16 **BACKGROUND**

17 Julian CSD serves approximately 206 service connections and a population of
18 approximately 578 permanent residents. Julian CSD currently has four active
19 groundwater wells, Well 9, Volcan Well 1, Volcan Well 2, and Volcan Well 3, which are
20 treated by a filtration system to remove iron and manganese. Monitoring violations for
21 only these four currently active wells are detailed in this citation. The system also has an
22 inactive volatile organic chemical (VOC) removal treatment plant. Previously, the Julian
23 Commingled Plume, which consists of several leaking underground fuel storage tank



1 sites, was pumped via Julian's downtown wells and treated at the VOC removal
2 treatment plant. The plant effluent was sampled weekly for VOCs and other constituents.
3 Despite requests for the VOC plant effluent data, this data has not been provided to
4 DDW as of the date of this citation. DDW has reviewed the treated water results for the
5 period of January 2007 through March 2010 submitted to San Diego County Department
6 of Environmental Health via the Geotracker website and the majority of samples were
7 non-detect for VOCs and thus the system was likely in compliance with the maximum
8 contaminant levels for volatile organic chemicals. However, the VOC removal treatment
9 plant was operated to treat the Stonewall Well 10, an unpermitted well, during July and
10 August 2010 and monitoring results do not appear to be available. Wells 1, 2, 3, 6 and 8
11 were inactivated in July 2012 and Julian CSD also repeatedly failed to collect source
12 water quality monitoring at these five wells as detailed in the Description of Violations
13 section below.

14

15 **ENFORCEMENT HISTORY**

- 16 • A Notice of Violation was issued in May 2006 for failure to collect triennial lead and
17 copper samples in 2005.
- 18 • Citation No. 05-17-06C-002 was issued in May 2006 for failure to monitor the
19 distribution system for total coliform in the month of October 2005.
- 20 • A Notice of Violation was issued in April 2007 for failure to monitor in 2006 for total
21 trihalomethanes and haloacetic acids in the distribution system.
- 22 • A Notice of Violation for failure to complete initial radionuclide source monitoring was
23 issued as part of a sanitary survey letter on September 21st, 2009.



- 1 • A Notice of Violation was issued in December 2010 for failure to submit the
2 Disinfectant Residual MRDL compliance form for the third quarter of 2010 by the
3 deadline of October 10th, 2010.
- 4 • A Notice of Violation for failure to complete source chemical monitoring was issued
5 as part of a sanitary survey letter on July 17th, 2012.
- 6 • A Notice of Violation for failure to complete backflow device testing was issued as
7 part of a sanitary survey letter on July 17th, 2012.

8 9 DESCRIPTION OF VIOLATIONS

10 Use of Unapproved Water Supply Source

11 Section 64556(a)(3) requires a water system to submit an application for a permit
12 amendment to DDW prior to modifying the water supply by adding a new source. Per the
13 Semi-Annual Project Summary Reports in 2009 and 2010 for Chevron Environmental
14 Management Company for the Julian Commingled Plume available on the Geotracker
15 website (geotracker.waterboards.ca.gov), between August 2009 and July 2010, Well 10
16 (3700909-014) was utilized to extract groundwater from the Julian Commingled Plume
17 and was treated by the organics removal treatment plant and sent to the Julian CSD
18 distribution system. Julian CSD failed to apply for and receive a permit amendment from
19 DDW prior to utilizing this source in the distribution system. A total of approximately 1.1
20 million gallons of groundwater was pumped from Well 10 and utilized in the Julian CSD
21 distribution system. A nitrate sample was collected as part of the plume monitoring from
22 Well 10 in May 2008 and the results were below the detection limit. DDW has no nitrate
23 or bacteriological sample information for the period from August 2009 through July 2010



1 when the well was in use. It is unknown if Well 10 meets current Department of Water
2 Resource well construction standards.

3
4 **Inadequate Backflow Device Testing**

5 In the 2014 Annual Report to the Drinking Water Program (ARDWP) Julian CSD
6 reported that testing for all backflow devices was completed in June of that year. Julian
7 CSD now lists a total of 14 devices, up from 13 devices reported in the previous year.
8 Prior to 2014, Julian CSD had an extensive history of failing to maintain an adequate
9 Cross Connection Control Program (CCCP) in that the two previous CCCP evaluations
10 from 2009 and 2012 were incomplete and in the ARDWP from 2009 through 2013 the
11 number of devices reported tested each year was less than the number of devices in
12 service. This information is provided in the table below.

13 **Backflow Device Testing History from**
14 **Julian CSD Annual Reports**

Year	Devices Installed	Devices Tested
2009	8	2
2010	8	6
2011	8	0
2012	8	0
2013	8	0
2014	13	13

15
16 **Inorganic Chemical Monitoring Violations**

17 Per Section 64432(c), a public water system using groundwater shall monitor each
18 source once per compliance period (every three years) for all inorganics, except
19 asbestos, nitrate/nitrite and perchlorate. Julian CSD was directed that inorganics are



1 overdue and must be monitored every three years in the following documents: the June
2 18th, 2003 annual inspection letter (Attachment A), the July 31st, 2003 domestic water
3 supply permit (Attachment B), the September 21st, 2009 sanitary survey letter
4 (Attachment D), an October 21st, 2011 email (Attachment E), and the July 17th, 2012
5 sanitary survey letter (Attachment F). Julian CSD sampled for all inorganics in June
6 2003 from all four active groundwater wells. In November 2006, Julian CSD monitored
7 Volcan Well 1 for all inorganics except antimony, beryllium, chromium, nickel and
8 thallium. Julian CSD failed to monitor Well 9, Volcan Well 2 and Volcan Well 3 for
9 inorganics during the 2005-2007, the 2008-2010 and the 2011-2013 compliance periods.
10 Julian CSD failed to monitor Volcan Well 1 for inorganics during the 2008-2010 and the
11 2011-2013 compliance periods and for five regulated metals during the 2005-2007
12 compliance period. To date no inorganic sample results have been received since 2006
13 for Volcan Well 1 and since 2003 for Volcan Well 2 and Volcan Well 3. Results sampled
14 on May 20th 2015 for the current compliance period for Well 9 were received on June
15 18th 2015 but included only a partial list of the required contaminants.

16
17 **Nitrate/Nitrite Monitoring Violations**

18 Per Section 64432.1(a) and 64432.1(b), all public water systems using groundwater shall
19 monitor each source annually for nitrate and once per compliance period (every three
20 years) for nitrite. Julian CSD was directed to monitor for nitrate and nitrite samples
21 annually and every three years, respectively, in the following DDW documents: July 31st,
22 2003 domestic water supply permit (Attachment B), September 21st, 2009 sanitary



1 survey letter (Attachment D), and the July 17th, 2012 sanitary survey letter (Attachment
2 F).

3
4 Julian CSD failed to complete nitrate monitoring for Well 9, Volcan Well 1, Volcan Well 2
5 and Volcan Well 3 in 2007. Julian CSD also failed to conduct nitrate monitoring from
6 Well 9 in 2004 and 2009, and from Volcan Well 1 in 2009 and 2012. Julian CSD
7 collected nitrate samples from each of the four active sources in 2013, 2014, and 2015
8 and is currently in compliance with the requirements for nitrate monitoring.

9
10 Julian CSD failed to monitor for nitrite during the 2005-2007 compliance period for all
11 four active groundwater wells. Julian CSD monitored all four active wells for nitrite in
12 2010 and 2011 and was due for nitrite monitoring in 2014 however no nitrite results have
13 been received.

14 15 **Perchlorate Monitoring Violations**

16 Per Section 64432.3(c), a public water system using groundwater in which no
17 perchlorate has been detected shall monitor each source once per compliance period
18 (every three years) for perchlorate. Julian CSD completed initial perchlorate sampling for
19 the four active wells in 2008 and via the September 21st, 2009 sanitary survey letter
20 (Attachment D) was informed that the reduced frequency was triennial with the next
21 perchlorate samples due in 2011. Julian CSD was directed to sample for perchlorate in
22 2011 in an October 21st, 2011 email (Attachment E) from DDW and that perchlorate was
23 overdue for monitoring in the July 17th, 2012 sanitary survey letter (Attachment F). To



1 date no perchlorate sample results have been submitted to DDW since 2008.

2
3 **Radionuclide Monitoring Violations**

4 On June 18th, 2003, DDW issued an inspection letter (Attachment A) to Julian CSD
5 directing the system to collect radionuclide samples. On June 25th, 2003, the system
6 collected a sample for gross alpha from Well 9, Volcan Well 1, Volcan Well 2, and
7 Volcan Well 3. The results had not yet been received by DDW by the date of the July
8 31st, 2003 domestic water supply permit (Attachment B), and DDW noted that no
9 radionuclide monitoring had been completed for Julian CSD's wells. The July 31st, 2003
10 domestic water supply permit had a monitoring frequency for radionuclides of four
11 quarterly samples collected every four years.

12
13 In 2006, the Radionuclide Rule was revised and initial monitoring was required for all
14 sources consisting of four consecutive quarterly samples for gross alpha, uranium,
15 radium 226 and radium 228 by December 31st, 2007. On May 21st, 2008, DDW issued a
16 letter (Attachment C) informing the system that initial monitoring data had not been
17 received by the deadline and directing the system to complete initial monitoring for
18 radionuclides. A Notice of Violation was issued in the September 21st, 2009 sanitary
19 survey letter (Attachment D) for failure to complete initial monitoring for radionuclides.

20 On December 10th, 2009, Julian CSD collected only gross alpha samples from the three
21 Volcan Wells. Julian CSD, was again directed to complete initial radionuclide monitoring
22 in the October 21st, 2011 email (Attachment E), July 17th, 2012 sanitary survey letter
23 (Attachment F) and June 24th, 2013 email (Attachment G) and directed to begin



1 collecting samples within 30 days of the date of the sanitary survey letter and as soon as
2 possible in the two emails. Julian CSD collected only gross alpha and uranium from Well
3 9 on May 21st 2015.

4
5 Julian CSD is in violation of Section 64442 for failure to complete initial radionuclide
6 monitoring by December 31st, 2007 for Well 9, Volcan Well 1, Volcan Well 2 and Volcan
7 Well 3. To date, Julian CSD has not completed initial radionuclide monitoring.

8
9 **Volatile Organic Chemicals Monitoring Violations**

10 Per the July 31st, 2003 domestic water supply permit, Julian CSD was directed via
11 Permit Provision No. 9 to collect volatile organic chemical (VOCs) samples at the
12 following frequencies: every six years for the Volcan Wells and every three years for all
13 other wells. The three Volcan Wells are not currently overdue for VOC sampling. Well 9
14 was monitored on June 11th, 2003 and December 16th, 2009 for VOCs. Dichloromethane
15 and toluene were detected in the June 2003 sampling event. Julian CSD failed to
16 complete quarterly monitoring for one year after a VOC detection as required by Section
17 64445.1 (c)(4). Julian CSD also failed to monitor triennial for VOCs at Well 9 by failing to
18 monitor in 2006, as noted in the September 21st, 2009 sanitary survey letter. Julian CSD
19 was informed that VOCs were overdue for Well 9 by DDW via email in October 21st,
20 2011 (Attachment E) and directed to complete VOC sampling as soon as possible. VOC
21 results for Well 9 for sampling performed on May 20th 2015 have been received and all
22 results were ND.



1 **Synthetic Organic Chemicals Monitoring Violations**

2 Per Permit Provision No. 9 of the July 31st, 2003 domestic water supply permit
3 (Attachment B), Julian CSD was directed to collect synthetic organic chemical (SOC)
4 samples at the following frequencies:

- 5 • Volcan Wells 1, 2 and 3: atrazine and simazine every nine years
- 6 • All other wells: atrazine, simazine, ethylene dibromide (EDB), and
7 dibromochloropropane (DBCP) every six years, endothall, endrin and dioxin waived
8 and all other SOC's must be completed at least once.

9
10 Volcan Well 1 was last monitored for atrazine and simazine in November 2006. Volcan
11 Wells 2 and 3 were last monitored for atrazine and simazine in June 2003. Volcan Wells
12 2 and 3 were due to be sampled for atrazine and simazine in 2012 and are currently
13 overdue. Well 9 was monitored in June 2003 for the required SOC's. In December 2009,
14 the system sampled for DBCP and EDB as required, but failed to sample for atrazine
15 and simazine. Well 9 was due to be sampled in 2012 for atrazine, simazine, EDB and
16 DBCP and to date no results have been received.

17
18 **Secondary Standard Monitoring Violations**

19 Per Section 64449(b), each community water system shall monitor all groundwater
20 sources every three years for the secondary MCLs in Tables 64449-A and 64449-B and
21 for bicarbonate, carbonate and hydroxide alkalinity, calcium, magnesium, sodium, pH
22 and total hardness. Julian CSD was directed to monitor these constituents every three
23 years in the following documents: the July 31st, 2003 domestic water supply permit



1 (Attachment B), the September 21st, 2009 sanitary survey letter (Attachment D) and the
2 July 17th, 2012 sanitary survey letter (Attachment F). Julian CSD sampled for these
3 constituents on June 25th, 2003 from all four active groundwater wells and in November
4 28th, 2006 from Volcan Well 1.

5
6 Julian CSD failed to monitor Well 9, Volcan Well 1, Volcan Well 2, and Volcan Well 3 for
7 the constituents in Section 64449 during the 2005-2007 and the 2011-2013 compliance
8 periods and failed to monitor Well 9 during the 2008-2010 compliance period. Julian
9 CSD also failed to monitor Volcan Wells 1, 2 and 3 for silver during the 2008-2010
10 compliance period. Julian CSD did monitor Well 9 for the constituents in Section 64449-
11 B and bicarbonate, carbonate and hydroxide alkalinity, calcium, magnesium, sodium, pH
12 and total hardness on May 20th 2015 for the current compliance period. The secondary
13 MCL for odor of 3 TON (Threshold Odor Number) was exceeded with a sample result of
14 5 TON.

15
16 Wells that exceed a secondary MCL are required to be monitored quarterly per Section
17 64449(c). In the September 21st, 2009 and July 17th, 2012 sanitary survey letters, DDW
18 instructed Julian CSD to monitor Well 9 annually for iron, turbidity and zinc and Volcan
19 Well 3 annually for iron, manganese and turbidity due to exceedances from June 2003
20 for Well 9 and from June 2003 and December 2009 for Volcan Well 3. Julian CSD has
21 not complied with this increased monitoring frequency and failed to sample Well 9 and
22 Volcan Well 3 in 2010, 2011, 2012 and 2013.



1 **Treated Water Monitoring Violations**

2 Per the September 21st, 2009 and July 17th, 2012 sanitary survey letters, Julian CSD
3 was directed to begin sampling monthly for iron, turbidity, manganese and zinc at the
4 treatment plant effluent and have their laboratory submit the results electronically via
5 Electronic Data Transfer (EDT) under PS Code 3700909-002. Julian CSD completed
6 three months of the required sampling in December 2009, August 2012 and September
7 2012 and then ceased to monitor and report results. Julian CSD failed to monitor and
8 report results monthly for the 39 months between January 2010 through July 2012 and
9 October 2012 through May 2013.

10
11 In the September 21st, 2009 sanitary survey letter and in October 21st, 2011 emails,
12 Julian CSD was directed to submit all data by Electronic Data Transfer to DDW's water
13 quality database, including the results of raw source sampling and weekly treated
14 sampling from the VOC treatment plant for the Julian Commingled Plume. Treated VOC
15 results were submitted only for one date, December 16th, 2009. Per Section 64469(a),
16 water systems are also required to submit copies of laboratory analysis results by the
17 10th day of the following month in which analyses were completed. Julian CSD has not
18 submitted copies of the treated monitoring results for at least the 2008 through 2013
19 treatment plant operation. By failing to provide sample results, Julian CSD has
20 repeatedly failed to demonstrate whether the VOC removal treatment plant and the iron
21 and manganese removal plant are in compliance with MCLs during the 2008 through
22 2013 compliance period.



1 **Electronic Data Transfer Violations**

2 Julian CSD has repeatedly failed to perform submittal of monitoring results by Electronic
3 Data Transfer. In the 2003, 2009, and 2012 Sanitary Survey inspection reports Julian
4 CSD was directed by DDW to submit all laboratory monitoring results (with the exception
5 of bacteriological results) by EDT. The most recent monitoring results received from
6 Julian CSD for nitrate for Volcan Wells 1, 2, and 3 and Well 9 received in April 2015, and
7 inorganic results for Well 9 received in June 2015, have not been submitted to DDW by
8 EDT.

9
10 **DETERMINATIONS**

11 The Division has determined that the Julian CSD has violated provisions contained in the
12 H&S Code and Title 22, California Code of Regulations (CCR). These violations include,
13 but are not limited to, the following:

- 14
- 15 1. H&S Code Section 116550(a) and Title 22, CCR, Section 64556(a): Specifically,
16 Julian CSD failed to apply for and receive a permit amendment from the Division prior
17 to using Well 10 as an active source in the potable water system.
 - 18 2. Title 17, CCR, Section 7605(c): Specifically, Julian CSD failed to perform adequate
19 maintenance and testing of the backflow devices in the water system.
 - 20 3. Title 22, CCR, Section 64432(c): Specifically, Julian CSD failed to collect triennial
21 inorganic samples from Well 9, Volcan Well 2 and Volcan Well 3 during the 2005-
22 2007, 2008-2010, and 2011-2013 compliance periods and from Volcan Well 1 during
23 the 2008-2010 and 2011-2013 compliance periods.



- 1 4. Title 22, CCR, Section 64432.1 (a) and (b): Specifically, Julian CSD failed to collect
2 annual nitrate samples from Well 9, Volcan Well 1, Volcan Well 2 and Volcan Well 3
3 in 2007 and from Well 9 in 2004 and 2009 and Volcan Well 1 in 2009. Julian CSD
4 failed to collect triennial nitrite samples from Well 9, Volcan Well 1, Volcan Well 2 and
5 Volcan Well 3 during the 2005-2007 compliance period.
- 6 5. Title 22, CCR, Section 64432.3 (c): Specifically, Julian CSD failed to collect triennial
7 perchlorate samples from Well 9, Volcan Well 1, Volcan Well 2 and Volcan Well 3 in
8 2011 and to date samples have not been collected.
- 9 6. Title 22, CCR, Section 64442(b) and (c): Specifically, Julian CSD failed to complete
10 initial gross alpha and radium 228 monitoring from Well 9, Volcan Well 1, Volcan Well
11 2 and Volcan Well 3.
- 12 7. Title 22, CCR, Section 64445.1(b)(1) and (c)(4): Specifically, Julian CSD failed to
13 complete quarterly monitoring for volatile organic chemicals (VOCs) in Well 9 after a
14 detection in June 2003. The system also failed to complete VOC sampling in the
15 years designated by the Division (2006 and 2012) for VOCs for Well 9.
- 16 8. Title 22, CCR, Section 64445.1(b)(3): Specifically, Julian CSD failed to complete
17 monitoring for synthetic organic chemicals (SOC) in the year designated by the
18 Division.
- 19 9. Title 22, CCR, Section 64449(b) and (c): Specifically, Julian CSD failed to collect
20 triennial monitoring for the constituents in section 64449 (Secondary Standards) from
21 Well 9, Volcan Well 1, Volcan Well 2 and Volcan Well 3 during the 2005-2007 and
22 2011-2013 compliance periods and from Well 9 during the 2008-2010 compliance
23 period. Julian CSD also failed to monitor quarterly for constituents that exceeded



1 secondary maximum contaminant levels (MCL).

2 10. Title 22, CCR, Section 64469(a) and (c): Specifically, Julian CSD failed to provide
3 laboratory results by the tenth day of the following month following the month in
4 which analyses were completed and failed to have its laboratories submit data via
5 Electronic Data Transfer (EDT) to the DDW water quality database.

6
7 **DIRECTIVES**

8 Julian CSD is hereby directed to:

- 9 1. Forthwith, Julian CSD shall cease and desist from failing to comply with the California
10 Health and Safety Code, Title 22 of the California Code of Regulation and Domestic
11 Water Supply Permit No. 05-14-03P-008 issued to Julian CSD on July 31st, 2003.
- 12 2. Julian CSD shall immediately cease and desist using all wells related to the Julian
13 Commingled Plume cleanup, including Well 10, as sources of drinking water for the
14 Julian CSD system.
- 15 3. Julian CSD shall use only the approved sources listed in the table below for the
16 production of potable water. No other sources shall be used without first receiving a
17 permit amendment from DDW prior to use.

18
19 **Approved Wells for Julian CSD**

Well	PS Code
Well 9	3700909-010
Volcan Well 01	3700909-011
Volcan Well 02	3700909-012
Volcan Well 03	3700909-013

20



- 1 4. Julian CSD shall submit a completed permit amendment application for any wells not
2 listed in Directive 3 and receive a permit amendment from DDW prior to placing in
3 service.
- 4 5. Julian CSD shall comply with Title 17 Section 7605 and provide adequate
5 maintenance and annual testing for all backflow devices in the water system.
- 6 6. Within 30 days of the date of this citation, or by November 5th 2015, Julian CSD shall
7 complete a Cross Connection Control Program Evaluation (Attachment J) and submit
8 a copy to DDW for review.
- 9 7. Within 60 days of the date of this citation, or by December 5th 2015, Julian CSD shall
10 provide copies of the Backflow Prevention Assembly General Tester and Cross-
11 Connection Control Program Specialist certificates for the personnel who fulfill the
12 requirements of the Cross Connection Control Program.
- 13 8. Within 60 days of the date of this citation, or by December 5th 2015, Julian CSD shall
14 provide a backflow device inventory listing model, size, type, serial number, location,
15 use, and most recent test result. The inventory shall be updated annually and
16 submitted to DDW for review no later than January 10th of each year.
- 17 9. Julian CSD shall comply with Title 22 Section 64431 and complete all delinquent
18 inorganic monitoring requirements for all approved wells as per Directive 16.
- 19 10. Julian CSD shall comply with Title 22 Section 64432.1 and complete all delinquent
20 nitrite monitoring requirements for all approved wells as per Directive 16.
- 21 11. Julian CSD shall comply with Title 22 Section 64432.3 and complete all delinquent
22 perchlorate monitoring requirements for all approved wells as per Directive 16.



1 12. Julian CSD shall comply with Title 22 Section 64442(b)&(c) and complete all
2 delinquent radiological monitoring requirements for all approved wells as per
3 Directive 16.

4 13. Julian CSD shall comply with Title 22 Section 64445.1(b)&(c) and complete all
5 delinquent VOC and SOC monitoring requirements for all approved wells as per
6 Directive 16.

7 14. Julian CSD shall comply with Title 22 Section 64449(b)&(c) and complete all
8 delinquent secondary contaminant monitoring requirements for all approved wells as
9 per Directive 16.

10 15. By December 31st, 2015, Julian CSD shall complete all overdue source chemical
11 monitoring included in Directives 9 - 14. Specifically, this monitoring includes:

12 a. Well 9:

13 i. Nitrite

14 ii. Perchlorate,

15 iii. Inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium,
16 chromium, fluoride, nickel, selenium, and thallium)

17 iv. Secondary standards (copper, iron, manganese, silver, zinc)

18 v. Radionuclides (gross alpha and radium 228)

19 vi. Volatile organic chemicals

20 vii. Synthetic organic chemicals (atrazine and simazine)

21 b. Volcan Well 1

22 i. Nitrite

23 ii. Perchlorate,



- 1 iii. Inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium,
2 chromium, fluoride, mercury, nickel, selenium, and thallium)
- 3 iv. Secondary standards (color, copper, foaming agents, iron, manganese,
4 odor, silver, turbidity, zinc, chloride, sulfate, total dissolved solids and
5 specific conductance) and bicarbonate, carbonate and hydroxide
6 alkalinity, calcium, magnesium, sodium, pH and total hardness.
- 7 v. Radionuclides (gross alpha and radium 228)
- 8 c. Volcan Well 2:
- 9 i. Nitrite
- 10 ii. Perchlorate,
- 11 iii. Inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium,
12 chromium, fluoride, mercury, nickel, selenium, and thallium)
- 13 iv. Secondary standards (color, copper, foaming agents, iron, manganese,
14 odor, silver, turbidity, zinc, chloride, sulfate, total dissolved solids and
15 specific conductance) and bicarbonate, carbonate and hydroxide
16 alkalinity, calcium, magnesium, sodium, pH and total hardness.
- 17 v. Radionuclides (gross alpha and radium 228)
- 18 vi. Synthetic organic chemicals (atrazine and simazine)
- 19 d. Volcan Well 3:
- 20 i. Nitrite
- 21 ii. Perchlorate,
- 22 iii. Inorganics (aluminum, antimony, arsenic, barium, beryllium, cadmium,
23 chromium, fluoride, mercury, nickel, selenium, and thallium)



- iv. Secondary standards (color, copper, foaming agents, iron, manganese, odor, silver, turbidity, zinc, chloride, sulfate, total dissolved solids and specific conductance) and bicarbonate, carbonate and hydroxide alkalinity, calcium, magnesium, sodium, pH and total hardness.
- v. Radionuclides (gross alpha and radium 228)
- vi. Synthetic organic chemicals (atrazine and simazine)

16. Within 30 days of the issuance of this citation, or by November 5th 2015, Julian CSD shall collect a confirmation sample from Well 9 and test for Threshold Odor Number (TON).

17. Julian CSD shall comply with Title 22 Section 64669(c) for all future monitoring (with the exception of bacteriological monitoring) and complete electronic data submittal for all required contaminants for all approved wells.

18. By July 1, 2016, Julian CSD shall provide public notice of the monitoring violations in accordance with CCR, Section 64463.7. Julian CSD may issue this notice as an attachment to its annual Consumer Confidence Report. Public notice shall be via 1) mail or direct delivery to each customer, and 2) posting notice using one or more of the following methods: posting on the internet and/or local newspaper, posting in conspicuous public spaces served by the water system, and delivery to community organizations. A draft notification shall be submitted to DDW for review and approval prior to conducting public notification.

19. Within 10 days of conducting public notifications, a copy of the notice and the "Proof of Notification" certification shall be submitted to DDW using the enclosed form.



1 The Division reserves the right to make such modifications to this Citation as it may
2 deem necessary to protect public health and safety. Such modifications may be issued
3 as amendments to this Citation, and shall be deemed effective upon issuance.

4 Nothing in this Citation relieves Julian CSD of its obligation to meet the requirements of
5 the California Safe Drinking Water Act, or of any regulation, permit, standard, or order
6 issued or adopted thereunder.

7 All submittals required by this Citation shall be submitted to the Division at the following
8 address:

9 Sean Sterchi, P.E.
10 District Engineer
11 State Water Resources Control Board
12 Division of Drinking Water
13 1350 Front Street, Room 2050
14 San Diego, CA 92101
15

16 **PARTIES BOUND**

17 This Citation shall apply to and be binding upon Julian CSD, its officers, directors,
18 shareholders, agents, employees, contractors, successors, and assignees.

19
20
21
22 **SEVERABILITY**

23 The Directives of this Citation are severable, and Julian CSD shall comply with each and
24 every provision thereof, notwithstanding the effectiveness of any other provision.
25



1 **FURTHER ENFORCEMENT ACTION**

2 The California SDWA authorizes the Board to: issue citation with assessment of
3 administrative penalties to a public water system for violation or continued violation of
4 the requirements of the California SDWA or any permit, regulation, standard or order
5 issued or adopted thereunder including, but not limited to, failure to correct a violation
6 identified in a citation or compliance order. The California SDWA also authorizes the
7 Board to take action to suspend or revoke a permit that has been issued to a public
8 water system if the system has violated applicable law or regulations or has failed to
9 comply with an order of the Board; and to petition the superior court to take various
10 enforcement measures against a public water system that has failed to comply with an
11 order of the Board. The Board does not waive any further enforcement action by
12 issuance of this citation.

13
14
15 10/2/15 
16 Date Sean Sterchi, P.E.
17 District Engineer
18 Division of Drinking Water
19 State Water Resources Control Board
20

21
22 cc: Jeff Lamoure, Deputy Director for Environmental Health Services, County of
23 Imperial
24

25 **ATTACHMENTS:**

26 Attachment A: June 18th, 2003 Annual Inspection Letter and Notice of Violation for
27 Over Due Chemical Monitoring

- 1 Attachment B: July 31st, 2003 Domestic Water Supply Permit and Engineering
2 Report (Pages not relevant to this citation were omitted)
- 3 Attachment C: May 21st, 2008 Letter – Radiological Water Quality Monitoring
4 Schedule
- 5 Attachment D: September 21st, 2009 Sanitary Survey Letter and Notice of Violation
6 for Failure to Complete Radiological Initial Monitoring (pages not
7 relevant to this citation were omitted)
- 8 Attachment E: October 21st, 2011 Email from DDW to Julian CSD regarding
9 overdue chemical monitoring & October 21, 2011 Response Email
10 from Julian CSD to DDW
- 11 Attachment F: July 17th, 2012 Sanitary Survey Letter and Notice of Violation for
12 Monitoring and Reporting (Pages not relevant to this citation were
13 omitted)
- 14 Attachment G: June 24th, 2013 Email from DDW to Julian CSD regarding overdue
15 chemical monitoring
- 16 Attachment H: Tier 3 Notification Template
- 17 Attachment I: Proof of Notification Certification
- 18 Attachment J: Cross Connection Control Program Evaluation



ATTACHMENT A



California
Department of
Health Services
DIANA M. BONTÁ, R.N., Dr. P.H.
Director

State of California—Health and Human Services Agency
Department of Health Services



GRAY DAVIS
Governor

June 18, 2003

Mr. Harry Seifert
General Manager
Julian Community Services District
P.O. Box 681
Julian, CA 92036

**JULIAN COMMUNITY SERVICES DISTRICT, SYSTEM NO. 3700909
2003 ANNUAL INSPECTION &
NOTICE OF VIOLATION FOR OVER DUE CHEMICAL MONITORING**

Dear Mr. Seifert:

The State Department of Health Services, Drinking Water Field Operations Branch (DWFOB) conducted an annual field inspection of the Julian Community Services District (JCSD) Water System on March 23, 2003. DWFOB sanitary engineer Randy Barnard conducted the inspection. The DWFOB is in the process of issuing a new domestic water supply permit, which will include a detailed engineering report and evaluation of your water system.

A Notice of Violation for over-due chemical monitoring of the JCSD ground water sources is being issued along with this inspection report. The following provision must be completed to correct the violation:

- Submit paperwork showing completion or complete now the chemical analysis of all past due water quality monitoring as described below. Pursuant to CCR, Title 22, Section 64451, a State-certified laboratory shall perform all chemical analysis. The Water system must require their contract laboratory to report source water quality results to the Department using Electronic Data Transfer (EDT). This requirement excludes bacteriological and disinfection-by-product monitoring, which shall be submitted directly to the Department on paper.

- **GENERAL MINERALS AND PHYSICALS**

Wells 01 and 08 were last analyzed for general mineral and physical chemicals on July 25, 2001. No results were above the MCL. No data for the other wells could be found. JCSD will need to sample the wells every three years.

- **INORGANIC CHEMICALS**



Do your part to help California save energy. To learn more about saving energy, visit the following web site:
www.consumerenergycenter.org/flex/index.html

Wells 01 and 08 were last analyzed for inorganic chemicals on July 25, 2001. No results were above the MCL. No data for the other wells could be found. JCSD will need to sample the wells every three years.

- **VOLATILE AND SEMI VOLATILE**

Most wells were last analyzed for only some of the required volatile organic chemicals on April 15, 1998. No results were above the MCL. No data for the other wells or other required volatile organic chemicals could be found. All wells are past due for sampling.

- **SYNTHETIC ORGANICS**

A few wells were last analyzed for only some of the required synthetic organic chemicals on April 15, 1998. No results were above the MCL. No data for the other wells or other required synthetic organic chemicals could be found. All wells are past due for sampling.

- **RADIOCHEMICALS**

No data could be found to confirm prior sampling. Copies can be submitted to the DWFOB office and electronically sent by the water system's laboratory or new samples must be taken for all wells.

The following are discrepancies noted during the field inspection that must be corrected:

1. An evaluation of the cross connection control program showed the Water system was not in compliance with Title 17. A copy of the program evaluation form is attached. An adequate cross connection control program must be submitted to the DWFOB for review by December 1, 2003.
 - a. JCSD has not adopted an enforceable, DWFOB approved Cross-Connection Control Ordinance/rules of service.
 - b. JCSD does not employ or contract with at least one person trained in cross-connection control.
 - c. Only 10 of the 12 backflow assemblies were tested in the last year.
2. JCSD has no formal valve maintenance program. Section 64632 of Title 22 states, *"Sufficient valves shall be provided on water mains to minimize inconvenience and sanitary hazards during repairs. In general, valves in water mains of 12 inches and smaller diameter should be located such that water main lengths of not more than 1,000 feet can be isolated by valve closures."* A water system must have the ability to isolate a section of water main in the event of a distribution system emergency. This can occur for a variety of reasons including earthquakes, accidental excavation, pipe failure, or floods. If the affected water main cannot be isolated, consumers could be without water and the possibility of a backflow condition increases substantially. Additionally, the U.S. Environmental Protection Agency (EPA) has been stressing the need for an adequate valve maintenance program in the event that an undesired substance enters the water system requiring isolation.

Adherence with the intent of Section 64632 relies on an operator's ability to isolate any section of water main in the distribution system. Not only must water system

operators install a sufficient number of valves, they must also ensure that the valves are functional. Each valve should be operated through a full cycle and returned to its normal position on a time schedule designed to prevent a buildup of deposits that would render the valve inoperable or prevent a tight shutoff.

The DWFOB recommends a valve maintenance program that initially involves exercising each valve at least once a year. A record should be maintained recording the date, location, observations of valve conditions, and the direction and number of turns required to open and close each valve. The conditions of the system and each valve will determine whether the frequency of exercising should be increased or decreased.

Valve exercising is not only recommended by the DWFOB, but by the American Water Works Association and valve manufacturers as well. It should also be noted that the current draft of the proposed Waterworks Standards would require water systems to develop and submit a distribution system operation and maintenance plan, which would specifically include a program for exercising of water main valves. Therefore, we strongly urge you to find the resources necessary to provide a valve maintenance program (inspection, replacement, and exercise). At a minimum, JCSD should prioritize the system's valves and exercise as many valves as possible within the coming year.

3. JCSD has no written formal Emergency Chlorination Plan on file. JCSD should submit an Emergency Chlorination Plan to the Department for review and approval. The plan should outline the steps that would be taken to adequately and **readily** provide a free-chlorine residual throughout its system. Emergency Chlorination Plans are often incorporated into a Disaster/Emergency Response Plan.

We appreciate the opportunity to assist and regulate the JCSD Water System and look forward to continue working with your system in the future. Should you have any questions, please call Randy Barnard at (619) 525-4354 or myself at (619) 525-4497.

Sincerely,

Brian Bernados, P.E.
District Engineer

Attachment
Cross Connection Control Program Evaluation
Guidance on an Emergency Chlorination Plan

cc: San Diego County Environmental Health Services

ATTACHMENT B

STATE OF CALIFORNIA

DOMESTIC WATER SUPPLY PERMIT

Issued To

JULIAN COMMUNITY SERVICES DISTRICT

3700909

By The

California Department of Health Services,

Division of Drinking Water & Environmental Management Branch



PERMIT NUMBER 05-14-03P-008

DATE: 07/31/2003

WHEREAS:

1. The Julian Community Services District was inspected on March 25, 2003, by the California Department of Health Services to issue a new public water system and perform an annual inspection.
2. This public water system is known as the Julian Community Services District whose headquarters is located on Farmers Road in Julian, CA 92036.
3. The legal owner of the Julian Community Services District is the Julian Community Services District. The Julian Community Services District, therefore, is responsible for compliance with all statutory and regulatory drinking water requirements and the conditions set forth in this permit.
4. The public water system is as described briefly below (a more detailed description of the permitted system is described in Section 1.3 of the attached Permit Report):

The Water system is a publicly owned utility that supplies water for domestic purposes to approximately 578 permanent residents through 175 service connections. The Water system operates 24 hours daily based on system demand.

PAGES OMITTED

Cross-Connection Control Program

8. Julian shall develop and maintain an active cross-connection control program in accordance with the Regulations Relating to Cross-Connections, California Code of Regulations, Title 17. All cross connections shall be abated within 30 days of their identification. Annual surveys shall be conducted thereafter. Backflow prevention devices shall be tested at least yearly. Julian shall submit an annual report to the Drinking Water Field Operations Branch system outlining the cross-connection control program for the previous year including the name and certification of the person assigned to the program, number of inspections made, number of backflow devices installed in the system and the number of devices tested and repaired. A plan to implement an adequate cross-connection control program shall be submitted to the DWFOB office by December 1, 2003.

Water Quality Monitoring

9. A complete and up-to-date set of chemical analysis for all wells used for domestic purposes must be submitted to the DWFOB by November 10, 2003. Refer to the Groundwater Monitoring Schedules attached in the Appendix for a list of chemicals that are required to be sampled.
10. Prior to using a new well, and to continue using the existing wells for domestic purposes, bacteriological and complete chemical analysis of the water produced, including general mineral, general physical, inorganic chemicals, nitrates, and nitrites shall be routinely submitted to the DWFOB to determine compliance with the California Drinking Water Quality Standards. The analyses shall be made by an approved laboratory and shall be submitted on state approved forms.
11. Prior to using a new well Julian shall obtain and submit to the Department, the State Well Numbers, copies of the geological logs (State Well Driller's Report), completed well data forms and plot plan of the well sites showing all sources of contamination within 200 feet of the wells.
12. Julian shall monitor the distribution system for bacteriological water quality according to a Department-approved Coliform Sample Siting Plan. A bacteriological analyses report shall be submitted to this office by the **tenth of the month** following sampling signed by the Manager, Superintendent, or Chief Operator including a list of water quality complaints and any reports of waterborne illnesses received from consumers.
13. Julian shall monitor raw groundwater from all wells quarterly for total coliform and fecal coliform/E.coli bacteria. The coliform tests shall be performed using a density analytical method and results shall be reported in units of MPN per 100 ml. Julian shall maintain a record of the results.
14. Pursuant to CCR, Title 22, Section 64451, all water quality monitoring results obtained in a calendar month shall be submitted to the Department on paper by the **tenth day** of the following month.
15. Pursuant to CCR, Title 22, Section 64451, a State-certified laboratory shall perform all chemical analysis. Julian must require their contract laboratory to report water quality results to the Department using Electronic Data Transfer (EDT) using the

Primary Station Code (PS_Code) listed in Provision number 2 above. This requirement excludes bacteriological and disinfection byproduct monitoring, which shall be submitted directly to the Department on paper.

16. Julian shall contact this office by phone concerning any acute violation or the occurrence of a hazardous situation. MCL violations will require public notification and corrective action.

Storage Reservoirs Basic Design

17. Distribution reservoir sites shall not be used for non-water works purposes that would either result in unrestricted public access, compromise security, or create a contamination hazard.

Storage Reservoir Coating/Lining

18. Julian shall use only NSF drinking water approved reservoir coatings, linings and their adhesives for its storage reservoirs. Otherwise, a VOC sample shall be collected after the newly coated/lined reservoir is filled and a minimum 5 day soaking period is allowed. In addition to the chemicals on the standard list (Method 524) analyses shall be made for ortho-Xylene, para-Xylene, meta-Xylene, methylethylketone (MEK), methylisobutylketone (MIBK) and any other solvent in the coating/lining adhesive included in the material Safety Data Sheet (MSDS) must also be included in the sample analysis. The results of the VOC analysis must be submitted to the Department.

Distribution System

19. The distribution system shall comply with all applicable California Waterworks and American Water Works Association (AWWA) design and construction standards and in compliance with the SDHS-DWFOB Guidelines for the Separation of Water and Sewer Lines. At least 10 feet horizontal and 1-foot vertical separation shall be maintained between the water and sewer lines. Water lines should cross above sewer lines where possible. Special construction standards and materials shall be provided where the minimum separation cannot be met.

Direct Additives

20. Pursuant to CCR, Title 22, Section 64700, no chemical or product shall be added to the drinking water as part of the treatment process unless it has been certified as meeting the specifications of the American National Standards Institute/National Sanitation Foundation (ANSI/NSF) Standard 60.

Annual Report to DHS

21. Julian shall submit the Annual Report on the status and condition of the domestic water system as directed by the DWFOB.

This permit supersedes all previous domestic water supply permits issued for this public water system and shall remain in effect unless and until it is amended, revised, reissued, or declared

to be null and void by the California Department of Health Services. This permit is non-transferable. Should the Julian Community Services District undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

Any change in the source of water for the water system, any modification of the method of treatment as described in the Permit Report, or any addition of distribution system storage reservoirs shall not be made unless an application for such change is submitted to the California Department of Health Services.

This permit shall be effective as of the date shown below.

FOR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES



Brian Bernados, PE
District Engineer

Dated: 7-31-03

H:\Systems\Julian Community Services District\Permits\2003 Permit\20030731 Julian permit.doc



**Engineering Report
For Consideration of the Permit
Application From**

**Julian Community Services District, System Number 3700909
San Diego County**

July 31, 2003

**State Department of Health Services
Division of Drinking Water and Environmental Management
Drinking Water Field Operations Branch
Randy Barnard, Chemical P.E.
Sanitary Engineer**

I. INTRODUCTION

1.1 PURPOSE OF REPORT

The Julian Community Service District (hereafter Julian) currently has an out dated permit issued in 1980 by the San Diego County Department of Environmental Health Services (EHS) to operate as a public water supply system utilizing only seven wells, two storage reservoirs, and a distribution system. The purpose of this report is to document the Sanitary Engineering Review of the current water system, its operation, and to make recommendations regarding the issuance of an up to date domestic water permit by the State Drinking Water Field Operations Branch (DWFOB).

1.2 BACKGROUND INFORMATION

In 1989, the presence of organic volatiles was detected in the Julian distribution system. This was due to leaking underground fuel storage tanks owned by Chevron. The California Regional Water Quality Control Board issued a Cleanup and Abatement Order in 1993 that required Chevron to operate and maintain treatment facilities to provide pure and wholesome water to the consumers. Prior to October 12, 1994 Julian was regulated by EHS. Currently Julian is under the State DWFOB jurisdiction.

1.3 BRIEF DESCRIPTION OF SYSTEM

An updated description of the Julian system is as follows. Julian is a publicly owned utility which supplies domestic water to approximately 175 service connections in the township of Julian in San Diego County. The permanent population is 578 with a seasonal daily maximum of approximately 5000 people. Julian maintains two treated water storage reservoirs with a total of 440,000 gallons of capacity, one raw water 55,000 gallon storage tank, two booster stations, and receives all of its water from seven active wells and one standby well within its service district. Julian produced 23.2 million gallons (MG) in 2001 with a peak month production of 2.271 MG in July 2001.

Two wells exceed the primary drinking water standard for benzene and other petroleum by-products. All other primary drinking water standards are met. Additionally, all wells produce water over the secondary maximum contaminant level for iron and manganese. All wells are piped directly into an iron removal system, an air-stripping tower, and then into an iron and

PAGES OMITTED

fractured mains are made under partial pressure or if a section is replaced the line is swabbed with a chlorine solution and flushed in accordance with AWWA disinfection procedures.

2.6 WATER QUALITY MONITORING

2.6.1 SURFACE WATER

Julian does not maintain surface water sources.

2.6.2 GROUNDWATER

2.6.2.1 VULNERABILITY ASSESSMENT FOR SOURCES

The Volcan wells are located in an isolated area and are thus classified as community small ground pristine (CSGP). Julian will need to sample for the following Title 22 chemicals on all Volcan wells:

Chemical Group	Vulnerability	Monitoring Frequency
Inorganic	N/A	Every three years
General Mineral	N/A	Every three years
General Physical	N/A	Every three years
Nitrate	N/A	Annually
Nitrite	N/A	Every three years
Radiological	N/A	4Q Every 4 years
Bacteriological	N/A	Every month
Regulated VOC	No	Every 6 years
Regulated SOC	No	Varies per monitoring schedule
Boron, Vanadium	Yes, all GW	Twice in one year, 5-7 months apart, with one sample during May 1-Sept. 30
Chromium VI	Depends total Chromium	Waived if total chromium < 1 ppb
Freon 12	No, < 1000 SC	Waived
Perchlorate, TCP	No, rural no agriculture	Waived
ETBE, TAME, TBA	Only if MTBE detected	Waived, if MTBE is ND

N/A= Not applicable

A Vulnerability Assessment and Monitoring Frequency Guidelines are attached in the Appendix.

Julian also maintains wells within the township of Julian that two of the 5 wells are contaminated with organic volatiles from a leaking underground fuel storage tank, and are thus classified as community small ground mixed (CSGM). Thus Julian will need to sample for the following Title 22 chemicals on all other wells located in the Julian township:

Chemical Group	Vulnerability	Monitoring Frequency
Inorganic	N/A	Every three years
General Mineral	N/A	Every three years
General Physical	N/A	Every three years
Nitrate	N/A	Annually
Nitrite	N/A	Every three years
Radiological	N/A	4Q Every four years
Bacteriological	N/A	Every month
Regulated VOC	Yes	Every three years
Regulated SOC	N/A	Varies
Boron, Vanadium	Yes, all GW	Varies per monitoring schedule
Chromium VI	Depends total Chromium	Twice in one year, 5-7 months apart, with one sample during May 1-Sept. 30
Freon 12	No, < 1000 SC	Waived
Perchlorate, TCP	Yes, rural agriculture	Twice in one year, 5-7 months apart, with one sample during May 1-Sept. 30
ETBE, TAME, TBA	Yes	Every three years

N/A= Not applicable

A Vulnerability Assessment and Monitoring Frequency Guidelines are attached in the Appendix.

2.6.2.2 GENERAL MINERALS AND PHYSICALS

Wells 01 and 08 were last analyzed for general mineral and physical chemicals on July 25, 2001. No results were above the MCL. No data for the other wells could be found. Julian will need to sample the wells every three years.

2.6.2.3 INORGANIC CHEMICALS

Wells 01 and 08 were last analyzed for inorganic chemicals on July 25, 2001. No results were above the MCL. No data for the other wells could be found. Julian will need to sample the wells every three years.

2.6.2.4 NITRATES/NITRITES

All wells were analyzed for nitrate and nitrite on January 28, 2003. No results were above the MCL. The monitoring frequency for nitrates will be every year and for nitrite every three years on all wells.

2.6.2.5 VOLATILE AND SEMI VOLATILE

Most wells were last analyzed for only some of the required volatile organic chemicals on April 15, 1998. No results were above the MCL. No data for the other wells or other required volatile organic chemicals could be found. All wells are past due for sampling.

2.6.2.6 SYNTHETIC ORGANICS

A few wells were last analyzed for only some of the required synthetic organic chemicals on April 15, 1998. No results were above the MCL. No data for the other wells or other required synthetic organic chemicals could be found. All wells are past due for sampling.

2.6.2.7 RADIOCHEMICALS

No data could be found to confirm prior sampling. Copies can be submitted to the DWFOB office and electronically sent by Julian's laboratory or new samples must be taken for all wells.

2.6.2.8 UNREGULATED CHEMICALS

No data could be found to confirm prior sampling. Copies can be submitted to the DWFOB office and electronically sent by Julian's laboratory or new samples must be taken for all wells.

2.6.2.9 BACTERIOLOGICAL

Julian will need to sample the raw well water for coliforms, prior to chlorination. Quarterly sampling is required for wells. If a well is sampled for coliforms and it is determined to be total coliform positive and confirmed with a follow-up sample, the well should be turned off, disinfected, pumped to waste until zero chlorine residual is obtained and resampled (cycle test) after 24 hours. All the resamples should be negative for coliforms and HPC less than 500 colonies/ml. Reliable treatment will be required for wells that continue to test positive. If a well tests positive for fecal coliforms additional investigation is needed and, the well will need monthly sampling, along with reliable chlorination treatment and additional treatment may be required. Some wells that are poorly constructed or located will require monthly raw well water coliform sampling. Standby wells shall be sampled when used.

2.6.3 OTHER SOURCES

Julian does not maintain other sources.

2.6.4 TREATED WATER MONITORING

2.6.4.1 SURFACE WATER

Julian does not maintain surface water sources.

2.6.4.2 GROUNDWATER

In compliance with the Cleanup and Abatement order, the Chevron Products Company conducts routine sampling on Julian's water. Water sample ports are located before and after the aerator (W-1 and W-2), at the influent and effluent of the GAC-20 (W-3 and W-4), at the influent and effluent of each of the liquid-phase carbon units (W-5 through W-8), at the effluent of the final liquid-phase carbon vessel (W-9), and at the point where the drinking water is either distributed to the town or pumped to storage tanks (DS).

Water samples are generally collected on the first working day of each week from Julian's well #8, W-1 through W-4, W-9 and the DS, and are analyzed for total petroleum hydrocarbons as gasoline, benzene, toluene, ethyl benzene, xylenes, and MTBE.

2.6.5 DISTRIBUTION SYSTEM MONITORING

2.6.5.1 COLIFORMS

Julian has an adequate Site Sampling Plan on file with the Department approved in 1995. The sampling plan includes a water system map with sampling sites identified. Julian will be required to collect one routine coliform sample from the distribution system monthly. Bacteriological results for the past year are as follows: (# samples taken/ # positive)

Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03
2/0	2/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0	3/0

2.6.5.2 SURFACE WATER TREATMENT RULE

Julian does not maintain surface water sources.

2.6.5.3 TRIHALOMETHANES/DISINFECTION BYPRODUCTS

Not required until January 1, 2004 for Small Water Systems.

2.6.5.4 GENERAL PHYSICAL CONSTITUENTS

2.6.5.5 LEAD AND COPPER RULE

Below is a summary of the Lead and Copper monitoring for Julian.

Date Completed/ Monitoring Period	Type	Required Samples	Collected Samples	Lead - 90th Percentile	Copper - 90th Percentile	Units
5/22/96	6-month	10	10	ND	0.17	mg/L
4/20/02 & 5/03/02	6-month	10	11	ND	0.40	mg/L
7/1/02-12/31/02	6-month	10	10	ND	0.220	mg/L
6/01/03-9/30/03	Annual	5				mg/L
6/01/06-9/30/06	Tri-Annual	5				mg/L
Action Level				0.015	1.3	mg/L

The next round of lead and copper sampling will be during the summer months (June 1, thru September 30, 2003). Provided that the 90th percentile results remain below the action levels, you will be required to monitor once every three years thereafter. Additionally, the number of samples required is reduced from ten samples to five.

PAGES OMITTED

APPENDIX 1
Well monitoring schedules

CALIFORNIA DEPARTMENT OF HEALTH SERVICES, DIVISION OF DRINKING WATER
Monitoring Guidelines - Ground Water Schedule
for the 9-Year Compliance Cycle 1/1/2002 through 12/31/2010

System Name: Julian Community Services District (only Volcan wells)

System Number: 3700909

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)		Title 22
						Active Wells	Standby Wells	
Inorganic Chemicals								
ALUMINUM	01105	1,000	UG/L	50	200 ^(b)	every 3 years	every 9 years	PI
ANTIMONY	01097	6	UG/L	6	6	every 3 years	every 9 years	PI
ARSENIC	01002	50	UG/L	2	50	every 3 years	every 9 years	PI
ASBESTOS	81855	7	MFL	0.2	7	waived	waived	PI
BARIUM	01007	1,000	UG/L	100	1,000	every 3 years	every 9 years	PI
BERYLLIUM	01012	4	UG/L	1	4	every 3 years	every 9 years	PI
CADMIUM	01027	5	UG/L	1	5	every 3 years	every 9 years	PI
CHROMIUM (TOTAL)	01034	50	UG/L	10	50	every 3 years	every 9 years	PI
COPPER	01042	1,300 ^(c)	UG/L	50	1,000 ^(b)	every 3 years	every 9 years	SI
CYANIDE	01291	200	UG/L	100	200	once	once	PI
FLUORIDE	00951	2	MG/L	0.1	1.7	every 3 years	every 9 years	PI
IRON	01045	300	UG/L	100	300	every 3 years	every 9 years	SI
LEAD	01051	15 ^(c)	UG/L	5	15	every 3 years	every 9 years	PI
MANGANESE	01055	50	UG/L	20	50	every 3 years	every 9 years	SI
MERCURY	71900	2	UG/L	1	2	every 3 years	every 9 years	PI
NICKEL	01067	100	UG/L	10	100	every 3 years	every 9 years	PI
NITRATE (AS NO3)	71850	45	MG/L	2	23	annually	every 9 years	PI
NITRITE (AS N)	00620	1000	UG/L	400	500	every 3 years	every 9 years	PI
SELENIUM	01147	50	UG/L	5	50	every 3 years	every 9 years	PI
SILVER	01077	100	UG/L	10	100	every 3 years	every 9 years	SI
THALLIUM	01059	2	UG/L	1	2	every 3 years	every 9 years	PI
ZINC	01092	5000	UG/L	50	5000	every 3 years	every 9 years	SI
General Mineral								
TOTAL HARDNESS (AS CaCO3)	00900		MG/L			every 3 years	every 9 years	SI
BICARBONATE ALKALINITY	00440		MG/L			every 3 years	every 9 years	SI
CARBONATE ALKALINITY	00445		MG/L			every 3 years	every 9 years	SI
HYDROXIDE ALKALINITY	71830		MG/L			every 3 years	every 9 years	SI
CALCIUM	00916		MG/L			every 3 years	every 9 years	SI
MAGNESIUM	00927		MG/L			every 3 years	every 9 years	SI
SODIUM	00929		MG/L			every 3 years	every 9 years	SI
SULFATE	00945	250, 500, 600 ^(d)	MG/L	0.5	500	every 3 years	every 9 years	SI
CHLORIDE	00940	250, 500, 600 ^(d)	MG/L		500	every 3 years	every 9 years	SI
General Physical								
TOTAL DISSOLVED SOLIDS	70300	500, 1000, 1500 ^(d)	MG/L		1000	every 3 years	every 9 years	SI
SPECIFIC CONDUCTANCE	00095	900, 1600, 2200 ^(d)	US		1600	every 3 years	every 9 years	SI
TURBIDITY (LAB)	82079	5	NTU		5	every 3 years	every 9 years	SI
PH (LABORATORY)	00403		UNITS			every 3 years	every 9 years	SI
COLOR	00081	15	UNITS		15	every 3 years	every 9 years	SI
ODOR THRESHOLD @ 60 C	00086	3	TON	1	3	every 3 years	every 9 years	SI
FOAMING AGENTS (MBAS)	38260	500	UG/L		500	every 3 years	every 9 years	SI
AGGRESSIVENESS INDEX	82383	NC				every 3 years	every 9 years	SI

System Name: Julian Community Services District (only Volcan wells)

System Number: 370909

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)		Title 22
						Active Wells	Standby Wells	
Radiological								
GROSS ALPHA	01501	15	PCI/L	1	5	4Q every 4 years	every 9 years	RAD
GROSS BETA	03501	50	PCI/L	4	50	waived	waived	RAD
RADIUM 226	09501	5 (e)	PCI/L	0.5	5	waived	waived	RAD
RADIUM 228	11501	5 (e)	PCI/L	0.5	5	waived	waived	RAD
STRONTIUM-90	13501	8	PCI/L	2	8	waived	waived	RAD
TRITIUM	07000	20,000	PCI/L	1,000	20,000	waived	waived	RAD
URANIUM	28012	20	PCI/L	2	20	waived	waived	RAD
Bacteriological								
Total Coliform (Presence/Absence)								BAC
Fecal Coliform or E. coli								BAC
Heterotrophic Plate Count								BAC
Regulated Volatile Organic Chemicals (n)								
BENZENE	34030	1	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
CARBON TETRACHLORIDE	32102	0.5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,2-DICHLOROBENZENE	34536	600	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,4-DICHLOROBENZENE	34571	5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,1-DICHLOROETHANE	34496	5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,2-DICHLOROETHANE	34531	0.5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,1-DICHLOROETHYLENE	34501	6	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
CIS-1,2-DICHLOROETHYLENE	77093	6	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
TRANS-1,2-DICHLOROETHYLENE	34546	10	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
DICHLOROMETHANE	34423	5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,2-DICHLOROPROPANE	34541	5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,3-DICHLOROPROPENE (TOTAL)	34561	0.5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
ETHYLBENZENE	34371	700	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	13	UG/L	3	5	every 6 years	every 9 years	VOC
MONOCHLOROBENZENE	34301	70	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
STYRENE	77128	100	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,1,2,2-TETRACHLOROETHANE	34516	1	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
TETRACHLOROETHYLENE	34475	5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
TOLUENE	34010	150	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,2,4-TRICHLOROBENZENE	34551	70	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,1,1-TRICHLOROETHANE	34506	200	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
1,1,2-TRICHLOROETHANE	34511	5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
TRICHLOROETHYLENE	39180	5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
TRICHLOROFLUOROMETHANE (FREON 11)	34488	150	UG/L	5	5	every 6 years	every 9 years	VOC
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	81611	1200	UG/L	10	10	every 6 years	every 9 years	VOC
VINYL CHLORIDE	39175	0.5	UG/L	0.5	0.5	every 6 years	every 9 years	VOC
XYLENES (TOTAL)	81551	1,750	UG/L	0.5	0.5	every 6 years	every 9 years	VOC

System Name: Julian Community Services District (only Volcan wells)

System Number: 3700909

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)		Title 22
						Active Wells	Standby Wells	
Regulated Synthetic Organic Chemicals (n)								
ALACHLOR	77825	2	UG/L	1	1	waived	waived	SOC
ATRAZINE	39033	3	UG/L	1	1	every 9 years	every 9 years	SOC
BENTAZON	38710	18	UG/L	2	2	waived	waived	SOC
BENZO (A) PYRENE	34247	0.2	UG/L	0.1	0.1	waived	waived	SOC
CARBOFURAN	81405	18	UG/L	5	5	waived	waived	SOC
CHLORDANE	39350	0.1	UG/L	0.1	0.1	waived	waived	SOC
2,4-D	39730	70	UG/L	10	10	waived	waived	SOC
DALAPON	38432	200	UG/L	10	10	waived	waived	SOC
DIBROMOCHLOROPROPANE (DBCP)	38761	0.2	UG/L	0.01	0.01	waived	waived	SOC
DI(2-ETHYLHEXYL)ADIPATE	A-026	400	UG/L	5	5	waived	waived	SOC
DI(2-ETHYLHEXYL)PHTHALATE	39100	4	UG/L	3	3	waived	waived	SOC
DINOSIB	81287	7	UG/L	2	2	waived	waived	SOC
DIQUAT	78885	20	UG/L	4	4	waived	waived	SOC
ENDOTHALL	38926	100	UG/L	45	45	waived	waived	SOC
ENDRIN	39390	2	UG/L	0.1	0.1	waived	waived	SOC
ETHYLENE DIBROMIDE (EDB)	77651	0.05	UG/L	0.02	0.02	waived	waived	SOC
GLYPHOSATE	79743	700	UG/L	25	25	waived	waived	SOC
HEPTACHLOR	39410	0.01	UG/L	0.01	0.01	waived	waived	SOC
HEPTACHLOR EPOXIDE	39420	0.01	UG/L	0.01	0.01	waived	waived	SOC
HEXACHLOROBENZENE	39700	1	UG/L	0.5	0.5	waived	waived	SOC
HEXACHLOROCYCLOPENTADIENE	34386	50	UG/L	1	1	waived	waived	SOC
LINDANE	39340	0.2	UG/L	0.2	0.2	waived	waived	SOC
METHOXYCHLOR	39480	40	UG/L	10	10	waived	waived	SOC
MOLINATE	82199	20	UG/L	2	2	waived	waived	SOC
OXAMYL	38865	200	UG/L	20	20	waived	waived	SOC
PENTACHLOROPHENOL	39032	1	UG/L	0.2	0.2	waived	waived	SOC
PICLORAM	39720	500	UG/L	1	1	waived	waived	SOC
POLYCHLORINATED BIPHENYLS (TOTAL PCB)	39516	0.5	UG/L	0.5	0.5	waived	waived	SOC
SIMAZINE	39055	4	UG/L	1	1	every 9 years	every 9 years	SOC
THIOBENCARB	A-001	70	UG/L	1	1	waived	waived	SOC
TOXAPHENE	39400	3	UG/L	1	1	waived	waived	SOC
2,3,7,8-TCDD (DIOXIN)	34676	0.00003	UG/L	0.000005	0.000005	waived	waived	SOC
2,4,5-TP (SILVEX)	39045	50	UG/L	1	1	waived	waived	SOC
UCMR Unregulated Chemicals (f)								
BORON (g)	01020		MG/L	0.1	1	semi-annual	semi-annual	U
CHROMIUM-6 (h) (j)	01032		UG/L	1	1	semi-annual	semi-annual	U
PERCHLORATE (m)	A-031		UG/L	4	4	waived	waived	U
VANADIUM (g)	01087		UG/L	3	50	semi-annual	semi-annual	U
1,2,3-TRICHLOROPROPANE (m)	77443		UG/L	0.005	0.005	waived	waived	U
DICHLORODIFLUOROMETHANE (FREON 12) (m)	34668		UG/L	0.5	1,000	waived	waived	U
ETHYL-TERT-BUTYL ETHER (ETBE) (k)	A-033		UG/L	3		semi-annual	semi-annual	U
TERT-AMYL-METHYL ETHER (TAME) (k)	A-034		UG/L	3		semi-annual	semi-annual	U
TERT-BUTYL ALCOHOL (TBA) (k)	77035		UG/L	2	12	semi-annual	semi-annual	U

System Name: Julian Community Services District (only Volcan wells)

System Number: 3700909

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)	
						Active Wells	Standby Wells
CSGP							
Notes							
(a)	For sources not exceeding the MCL or Trigger. Contact the Division of Drinking Water District Office for instructions regarding monitoring requirements to determine compliance when any sample exceeds the MCL or Trigger Level.						
(b)	Trigger Level is Secondary MCL						
(c)	Samples taken at tap (See CCR Title 22 Section 64682)						
(d)	Three Levels: Recommended, Upper, and Short Term (See CCR Title 22 Section 64449)						
(e)	Radium-226 + Radium-228 Combined						
(f)	Initial Monitoring Requirements: Semi-annual samples, collected 5 to 7 months apart (See CCR Title 22 Section 64450)						
(g)	If first sample is ND, no further monitoring required. If chemical is detected, 1 additional sample required.						
(h)	Sampling required only if Total Chromium is detected at greater than 1 ug/L						
(i)	Systems may first conduct a Total Chromium Screen with a DLR of 1 ug/L to determine whether Chromium-6 analysis is required						
(k)	ETBE, TAME, TBA can be waived only if past MTBE monitoring indicates ND						
(m)	Monitoring is required for water systems located in agricultural, urban, or industrial areas						
(n)	These requirements are for existing, permitted sources. For NEW sources, the initial monitoring requirement is 4 quarterly samples. Contact the District after the first sample results are received (See CCR Title 22 Section 64445).						
Definitions							
MCL	Maximum Contaminant Level						
DLR	Detection Limit, for the purposes of Reporting						
Trigger	The level at which some action may be taken, such as increased monitoring, and not necessarily regulatory violation						
Waived	Source is not required to be monitored for the compound, for various reasons including susceptibility, historical use, regulatory requirement, etc.						
Once	Source must be monitored once for the compound, and pending negative results, are waived thereafter						
NC	Non-Corrosive						
STORET	Unique identifier for each chemical or compound, used by laboratories for Electric Data Transfer reporting						
California Code of Regulations, Title 22 (22 CCR)							
BAC	Bacteriological						
PI	Primary Inorganic Chemical (22 CCR 64431, Table 64431-A)						
SOC	Regulated Non-Volatile Synthetic Organic Chemicals (SOCs) (22 CCR 64444, Table 64444-A)						
VOC	Regulated Volatile Organic Chemicals (VOCs) (22 CCR 64444, Table 64444-A)						
RAD	Radiological (22 CCR 64441 and 64443)						
SI	Secondary Inorganic Chemicals (22 CCR 64449)						
U	Unregulated Chemicals - (22 CCR 64450, Table 64450)						
Groundwater Classes							
CLGI	Community, Large (> 3,300 pop) Industrial Land Use						
CLGM	Community, Large (> 3,300 pop) Mixed Land Use (Agricultural & Industrial)						
CLGP	Community, Large (> 3,300 pop) Somewhat Pristine						
CSGM	Community, Small (< 3,300 pop) Mixed-Land Use (Agricultural & Industrial)						
CSGP	Community, Small (< 3,300 pop) Pristine (Non-Vulnerable)						
TNGP	Transient, Non-community System, Groundwater (Non-Vulnerable)						
STBY	Standby Wells						
DEAD	Source Destroyed						
INAC	Source Inactive						
OTHR	Source Abandoned, Monitoring Well, etc.						

CALIFORNIA DEPARTMENT OF HEALTH SERVICES, DIVISION OF DRINKING WATER

Monitoring Guidelines - Ground Water Schedule

for the 9-Year Compliance Cycle 1/1/2002 through 12/31/2010

System Name: Julian Community Services District (all in-city wells)

System Number: 3700909

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)		
						Active Wells	Standby Wells	Title 22
<i>Inorganic Chemicals</i>								
ALUMINUM	01105	1,000	UG/L	50	200 ^(b)	every 3 years	every 9 years	PI
ANTIMONY	01097	6	UG/L	6	6	every 3 years	every 9 years	PI
ARSENIC	01002	50	UG/L	2	50	every 3 years	every 9 years	PI
ASBESTOS	81855	7	MFL	0.2	7	waived	waived	PI
BARIUM	01007	1,000	UG/L	100	1,000	every 3 years	every 9 years	PI
BERYLLIUM	01012	4	UG/L	1	4	every 3 years	every 9 years	PI
CADMIUM	01027	5	UG/L	1	5	every 3 years	every 9 years	PI
CHROMIUM (TOTAL)	01034	50	UG/L	10	50	every 3 years	every 9 years	PI
COPPER	01042	1,300 ^(c)	UG/L	50	1,000 ^(b)	every 3 years	every 9 years	SI
CYANIDE	01291	200	UG/L	100	200	once	once	PI
FLUORIDE	00951	2	MG/L	0.1	1.7	every 3 years	every 9 years	PI
IRON	01045	300	UG/L	100	300	every 3 years	every 9 years	SI
LEAD	01051	15 ^(c)	UG/L	5	15	every 3 years	every 9 years	PI
MANGANESE	01055	50	UG/L	20	50	every 3 years	every 9 years	SI
MERCURY	71900	2	UG/L	1	2	every 3 years	every 9 years	PI
NICKEL	01067	100	UG/L	10	100	every 3 years	every 9 years	PI
NITRATE (AS NO3)	71850	45	MG/L	2	23	annually	every 9 years	PI
NITRITE (AS N)	00620	1000	UG/L	400	500	every 3 years	every 9 years	PI
SELENIUM	01147	50	UG/L	5	50	every 3 years	every 9 years	PI
SILVER	01077	100	UG/L	10	100	every 3 years	every 9 years	SI
THALLIUM	01059	2	UG/L	1	2	every 3 years	every 9 years	PI
ZINC	01092	5000	UG/L	50	5000	every 3 years	every 9 years	SI
<i>General Mineral</i>								
TOTAL HARDNESS (AS CaCO3)	00900		MG/L			every 3 years	every 9 years	SI
BICARBONATE ALKALINITY	00440		MG/L			every 3 years	every 9 years	SI
CARBONATE ALKALINITY	00445		MG/L			every 3 years	every 9 years	SI
HYDROXIDE ALKALINITY	71830		MG/L			every 3 years	every 9 years	SI
CALCIUM	00916		MG/L			every 3 years	every 9 years	SI
MAGNESIUM	00927		MG/L			every 3 years	every 9 years	SI
SODIUM	00929		MG/L			every 3 years	every 9 years	SI
SULFATE	00945	250, 500, 600 ^(d)	MG/L	0.5	500	every 3 years	every 9 years	SI
CHLORIDE	00940	250, 500, 600 ^(d)	MG/L		500	every 3 years	every 9 years	SI
<i>General Physical</i>								
TOTAL DISSOLVED SOLIDS	70300	500, 1000, 1500 ^(d)	MG/L			every 3 years	every 9 years	SI
SPECIFIC CONDUCTANCE	00095	900, 1600, 2200 ^(d)	US		1000	every 3 years	every 9 years	SI
TURBIDITY (LAB)	82079	5	NTU		1600	every 3 years	every 9 years	SI
PH (LABORATORY)	00403		UNITS		5	every 3 years	every 9 years	SI
COLOR	00081	15	UNITS		15	every 3 years	every 9 years	SI
ODOR THRESHOLD @ 60 C	00086	3	TON	1	3	every 3 years	every 9 years	SI
FOAMING AGENTS (MBAS)	38260	500	UG/L		500	every 3 years	every 9 years	SI
AGGRESSIVENESS INDEX	82383	NC				every 3 years	every 9 years	SI

System Name: Julian Community Services District (all in-city wells)

System Number: 3700909

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)		Title 22
						Active Wells	Standby Wells	
Radiological								
GROSS ALPHA	01501	15	PCI/L	1	5	4Q every 4 years	every 9 years	RAD
GROSS BETA	03501	50	PCI/L	4	50	waived	waived	RAD
RADIUM 226	09501	5 (e)	PCI/L	0.5	5	waived	waived	RAD
RADIUM 228	11501	5 (e)	PCI/L	0.5	5	waived	waived	RAD
STRONTIUM-90	13501	8	PCI/L	2	8	waived	waived	RAD
TRITIUM	07000	20,000	PCI/L	1,000	20,000	waived	waived	RAD
URANIUM	28012	20	PCI/L	2	20	waived	waived	RAD
Bacteriological								
Total Coliform (Presence/Absence)								BAC
Fecal Coliform or E. coli								BAC
Heterotrophic Plate Count								BAC
Regulated Volatile Organic Chemicals (n)								
BENZENE	34030	1	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
CARBON TETRACHLORIDE	32102	0.5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,2-DICHLOROBENZENE	34536	600	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,4-DICHLOROBENZENE	34571	5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,1-DICHLOROETHANE	34496	5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,2-DICHLOROETHANE	34531	0.5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,1-DICHLOROETHYLENE	34501	6	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
CIS-1,2-DICHLOROETHYLENE	77093	6	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
TRANS-1,2-DICHLOROETHYLENE	34546	10	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
DICHLOROMETHANE	34423	5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,2-DICHLOROPROPANE	34541	5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,3-DICHLOROPROPENE (TOTAL)	34561	0.5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
ETHYLBENZENE	34371	700	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	13	UG/L	3	5	every 3 years	every 9 years	VOC
MONOCHLOROBENZENE	34301	70	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
STYRENE	77128	100	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,1,2,2-TETRACHLOROETHANE	34516	1	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
TETRACHLOROETHYLENE	34475	5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
TOLUENE	34010	150	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,2,4-TRICHLOROBENZENE	34551	70	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,1,1-TRICHLOROETHANE	34506	200	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
1,1,2-TRICHLOROETHANE	34511	5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
TRICHLOROETHYLENE	39180	5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
TRICHLOROFLUOROMETHANE (FREON 11)	34488	150	UG/L	5	5	every 3 years	every 9 years	VOC
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	81611	1200	UG/L	10	10	every 3 years	every 9 years	VOC
VINYL CHLORIDE	39175	0.5	UG/L	0.5	0.5	every 3 years	every 9 years	VOC
XYLENES (TOTAL)	81551	1,750	UG/L	0.5	0.5	every 3 years	every 9 years	VOC

System Name: Julian Community Services District (all in-city wells)

System Number: 3700909

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)		Title 22
						Active Wells	Standby Wells	
Regulated Synthetic Organic Chemicals (n)								
ALACHLOR	77825	2	UG/L	1	1	once	waived	SOC
ATRAZINE	39033	3	UG/L	1	1	every 6 years	every 9 years	SOC
BENTAZON	38710	18	UG/L	2	2	once	waived	SOC
BENZO (A) PYRENE	34247	0.2	UG/L	0.1	0.1	once	waived	SOC
CARBOFURAN	81405	18	UG/L	5	5	once	waived	SOC
CHLORDANE	39350	0.1	UG/L	0.1	0.1	once	waived	SOC
2,4-D	39730	70	UG/L	10	10	once	waived	SOC
DALAPON	38432	200	UG/L	10	10	once	waived	SOC
DIBROMOCHLOROPROPANE (DBCP)	38761	0.2	UG/L	0.01	0.01	every 6 years	every 9 years	SOC
DI(2-ETHYLHEXYL)ADIPATE	A-026	400	UG/L	5	5	once	waived	SOC
DI(2-ETHYLHEXYL)PHTHALATE	39100	4	UG/L	3	3	once	waived	SOC
DINOSEB	81287	7	UG/L	2	2	once	waived	SOC
DIQUAT	78885	20	UG/L	4	4	once	waived	SOC
ENDOTHALL	38926	100	UG/L	45	45	waived	waived	SOC
ENDRIN	39390	2	UG/L	0.1	0.1	waived	waived	SOC
ETHYLENE DIBROMIDE (EDB)	77651	0.05	UG/L	0.02	0.02	every 6 years	every 9 years	SOC
GLYPHOSATE	79743	700	UG/L	25	25	waived	waived	SOC
HEPTACHLOR	39410	0.01	UG/L	0.01	0.01	once	waived	SOC
HEPTACHLOR EPOXIDE	39420	0.01	UG/L	0.01	0.01	once	waived	SOC
HEXACHLOROBENZENE	39700	1	UG/L	0.5	0.5	once	waived	SOC
HEXACHLOROCYCLOPENTADIENE	34386	50	UG/L	1	1	once	waived	SOC
LINDANE	39340	0.2	UG/L	0.2	0.2	once	waived	SOC
METHOXYCHLOR	39480	40	UG/L	10	10	once	waived	SOC
MOLINATE	82199	20	UG/L	2	2	once	waived	SOC
OXAMYL	38865	200	UG/L	20	20	once	waived	SOC
PENTACHLOROPHENOL	39032	1	UG/L	0.2	0.2	once	waived	SOC
PICLORAM	39720	500	UG/L	1	1	once	waived	SOC
POLYCHLORINATED BIPHENYLS (TOTAL PCB)	39516	0.5	UG/L	0.5	0.5	once	waived	SOC
SIMAZINE	39055	4	UG/L	1	1	every 6 years	every 9 years	SOC
THIOBENCARB	A-001	70	UG/L	1	1	once	waived	SOC
TOXAPHENE	39400	3	UG/L	1	1	once	waived	SOC
2,3,7,8-TCDD (DIOXIN)	34676	0.00003	UG/L	0.000005	0.000005	waived	waived	SOC
2,4,5-TP (SILVEX)	39045	50	UG/L	1	1	once	waived	SOC
UCMR Unregulated Chemicals (f)								
BORON (g)	01020		MG/L	0.1	1	semi-annual	semi-annual	U
CHROMIUM-6 (h) (i)	01032		UG/L	1		semi-annual	semi-annual	U
PERCHLORATE (m)	A-031		UG/L	4	4	semi-annual	semi-annual	U
VANADIUM (g)	01087		UG/L	3	50	semi-annual	semi-annual	U
1,2,3-TRICHLOROPROPANE (m)	77443		UG/L	0.005	0.005	semi-annual	semi-annual	U
DICHLORODIFLUOROMETHANE (FREON 12) (m)	34668		UG/L	0.5	1,000	waived	waived	U
ETHYL-TERT-BUTYL ETHER (ETBE) (k)	A-033		UG/L	3		semi-annual	semi-annual	U
TERT-AMYL-METHYL ETHER (TAME) (k)	A-034		UG/L	3		semi-annual	semi-annual	U
TERT-BUTYL ALCOHOL (TBA) (k)	77035		UG/L	2	12	semi-annual	semi-annual	U

System Name: Julian Community Services District (all in-city wells)

System Number: 3709099

Date: March 2003

Parameter	STORET	MCL	Units	DLR	Trigger	Monitoring Frequency (a)	
						Active Wells	Standby Wells
CSGM							
Notes							
(a)	For sources not exceeding the MCL or Trigger. Contact the Division of Drinking Water District Office for instructions regarding monitoring requirements to determine compliance when any sample exceeds the MCL or Trigger Level.						
(b)	Trigger Level is Secondary MCL						
(c)	Samples taken at tap (See CCR Title 22 Section 64682)						
(d)	Three Levels: Recommended, Upper, and Short Term (See CCR Title 22 Section 64449)						
(e)	Radium-226 + Radium-228 Combined						
(f)	Initial Monitoring Requirements: Semi-annual samples, collected 5 to 7 months apart (See CCR Title 22 Section 64450)						
(g)	If first sample is ND, no further monitoring required. If chemical is detected, 1 additional sample required.						
(h)	Sampling required only if Total Chromium is detected at greater than 1 ug/L						
(i)	Systems may first conduct a Total Chromium Screen with a DLR of 1 ug/L to determine whether Chromium-6 analysis is required						
(k)	ETBE, TAME, TBA can be waived only if past MTBE monitoring indicates ND						
(m)	Monitoring is required for water systems located in agricultural, urban, or industrial areas						
(n)	These requirements are for existing, permitted sources. For NEW sources, the initial monitoring requirement is 4 quarterly samples. Contact the District after the first sample results are received (See CCR Title 22 Section 64445).						
Definitions							
MCL	Maximum Contaminant Level						
DLR	Detection Limit, for the purposes of Reporting						
Trigger	The level at which some action may be taken, such increased monitoring, and not necessarily regulatory violation						
Waived	Source is not required to be monitored for the compound, for various reasons including susceptibility, historical use, regulatory requirement, etc.						
Once	Source must be monitored once for the compound, and pending negative results, are waived thereafter						
NC	Non-Corrosive						
STORET	Unique Identifier for each chemical or compound, used by laboratories for Electric Data Transfer reporting						
California Code of Regulations, Title 22 (22 CCR)							
BAC	Bacteriological						
PI	Primary Inorganic Chemical (22 CCR 64431, Table 64431-A)						
PSOC	Regulated Non-Volatile Synthetic Organic Chemicals (SOCs) (22 CCR 64444, Table 64444-A)						
PVOC	Regulated Volatile Organic Chemicals (VOCs) (22 CCR 64444, Table 64444-A)						
RAD	Radiological (22 CCR 64441 and 64443)						
SI	Secondary Inorganic Chemicals (22 CCR 64449)						
U	Unregulated Chemicals - (22 CCR 64450, Table 64450)						
Groundwater Classes							
CLGI	Community, Large (> 3,300 pop) Industrial Land Use						
CLGM	Community, Large (> 3,300 pop) Mixed Land Use (Agricultural & Industrial)						
CLGP	Community, Large (> 3,300 pop) Somewhat Pristine						
CSGM	Community, Small (< 3,300 pop) Mixed-Land Use (Agricultural & Industrial)						
CSGP	Community, Small (< 3,300 pop) Pristine (Non-Vulnerable)						
TNGP	Transient, Non-community System, Groundwater (Non-Vulnerable)						
STBY	Standby Wells						
DEAD	Source Destroyed						
INAC	Source Inactive						
OTHR	Source Abandoned, Monitoring Well, etc.						

APPENDIX 2
Current recorded well chemical monitoring

CALIFORNIA DEPARTMENT OF HEALTH SERVICES, DIVISION OF DRINKING WATER
 Vulnerability Assessment and Monitoring Guidelines
 With WQI Last Sample Report

Name: Julian Community Services District Syst No.: 3700909 Source WELL 09 10 Date: August 1, 2003

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
Inorganic Chemicals									
ALUMINUM	01105	1,000		UG/L	50	200 ^(b)	every 3 years		PI
ANTIMONY	01097	6		UG/L	6	6	every 3 years		PI
ARSENIC	01002	50		UG/L	2	50	every 3 years		PI
ASBESTOS	81855	7		MFL	0.2	7	waived		PI
BARIUM	01007	1,000		UG/L	100	1,000	every 3 years		PI
BERYLLIUM	01012	4		UG/L	1	4	every 3 years		PI
CADMIUM	01027	5		UG/L	1	5	every 3 years		PI
CHROMIUM (TOTAL)	01034	50		UG/L	10	50	every 3 years		PI
COPPER	01042	1,300 ^(c)		UG/L	50	1,000 ^(b)	every 3 years		SI
CYANIDE	01291	200		UG/L	100	200	once		PI
FLUORIDE	00951	1.7		MG/L	0.1	1.7	every 3 years		PI
IRON	01045	300		UG/L	100	300	every 3 years		SI
LEAD	01051	15 ^(c)		UG/L	5	15	every 3 years		PI
MANGANESE	01055	50		UG/L	20	50	every 3 years		SI
MERCURY	71900	2		UG/L	1	2	every 3 years		PI
NICKEL	01067	100		UG/L	10	100	every 3 years		PI
NITRATE (AS NO3)	71850	45		MG/L	2	23	annually		PI
NITRITE (AS N)	00620	1000		UG/L	400	500	every 3 years		PI
SELENIUM	01147	50		UG/L	5	50	every 3 years		PI
SILVER	01077	100		UG/L	10	100	every 3 years		SI
THALLIUM	01059	2		UG/L	1	2	every 3 years		PI
ZINC	01092	5000		UG/L	50	5000	every 3 years		SI
General Mineral									
TOTAL HARDNESS (AS CaCO3)	00900			MG/L			every 3 years		SI
BICARBONATE ALKALINITY	00440			MG/L			every 3 years		SI
CARBONATE ALKALINITY	00445			MG/L			every 3 years		SI
HYDROXIDE ALKALINITY	71830			MG/L			every 3 years		SI
CALCIUM	00916			MG/L			every 3 years		SI
MAGNESIUM	00927			MG/L			every 3 years		SI
SODIUM	00929			MG/L			every 3 years		SI
SULFATE	00945	250, 500, 600 ^(d)		MG/L	0.5	500	every 3 years		SI
CHLORIDE	00940	250, 500, 600 ^(d)		MG/L		500	every 3 years		SI

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
General Physical									22
TOTAL DISSOLVED SOLIDS	70300	500, 1000, 1500 (d)		MG/L		1000	every 3 years		SI
SPECIFIC CONDUCTANCE	00095	900, 1600, 2200 (d)		US		1600	every 3 years		SI
TURBIDITY (LAB)	82079	5		NTU		5	every 3 years		SI
PH (LABORATORY)	00403			UNITS			every 3 years		SI
COLOR	00081	15		UNITS		15	every 3 years		SI
ODOR THRESHOLD @ 60 C	00086	3		TON	1	3	every 3 years		SI
FOAMING AGENTS (MBAS)	38260	500		UG/L		500	every 3 years		SI
AGGRESSIVENESS INDEX	82363	Non-corrosive					every 3 years		SI
Radiological									
GROSS ALPHA	01501	15		PC/I/L	1	5	4Q every 4 years		RAD
GROSS BETA	03501	50		PC/I/L	4	50	waived		RAD
RADIUM 226	09501	5 (e)		PC/I/L	0.5	5	waived		RAD
RADIUM 228	11501	5 (e)		PC/I/L	0.5	5	waived		RAD
STRONTIUM-90	13501	8		PC/I/L	2	8	waived		RAD
TRITIUM	07000	20,000		PC/I/L	1,000	20,000	waived		RAD
URANIUM	28012	20		PC/I/L	2	20	waived		RAD
Bacteriological									
Total Coliform (Presence/Absence)									PBAC
Fecal Coliform or E. coli									PBAC
Heterotrophic Plate Count									PBAC
Regulated Volatile Organic Chemicals									
BENZENE	34030	1	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
CARBON TETRACHLORIDE	32102	0.5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,2-DICHLOROBENZENE	34536	600	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,4-DICHLOROBENZENE	34571	5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,1-DICHLOROETHANE	34496	5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,2-DICHLOROETHANE	34531	0.5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,1-DICHLOROETHYLENE	34501	6	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
CIS-1,2-DICHLOROETHYLENE	77093	6	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
TRANS-1,2-DICHLOROETHYLENE	34546	10	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
DICHLOROMETHANE	34423	5	0.59	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,2-DICHLOROPROPANE	34541	5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,3-DICHLOROPROPENE (TOTAL)	34561	0.5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
ETHYLBENZENE	34371	700	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	13	0	UG/L	3	5	every 3 years	06/05/03	PVOC
MONOCHLOROBENZENE	34301	70	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
STYRENE	77128	100	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,1,2,2-TETRACHLOROETHANE	34516	1	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title 22
TETRACHLOROETHYLENE	34475	5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
TOLUENE	34010	150	100	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,2,4-TRICHLOROBENZENE	34551	70	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,1,1-TRICHLOROETHANE	34506	200	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
1,1,2-TRICHLOROETHANE	34511	5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
TRICHLOROETHYLENE	39180	5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
TRICHLOROFLUOROMETHANE	34488	150	0	UG/L	5	5	every 3 years	06/05/03	PVOC
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	1200	0	UG/L	10	10	every 3 years	06/05/03	PVOC
VINYL CHLORIDE	39175	0.5	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
XYLENES (TOTAL)	81551	1,750	0	UG/L	0.5	0.5	every 3 years	06/05/03	PVOC
Regulated Synthetic Organic Chemicals									
ALACHLOR	77825	2		UG/L	1	1	once		PSOC
ATRAZINE	39033	3		UG/L	1	1	every 6 years		PSOC
BENTAZON	38710	18		UG/L	2	2	once		PSOC
BENZO (A) PYRENE	34247	0.2		UG/L	0.1	0.1	once		PSOC
CARBOFURAN	81405	18		UG/L	5	5	once		PSOC
CHLORDANE	39350	0.1		UG/L	0.1	0.1	once		PSOC
2,4-D	39730	70		UG/L	10	10	once		PSOC
DALAPON	38432	200		UG/L	10	10	once		PSOC
DIBROMOCHLOROPROPANE (DBCP)	38761	0.2	0	UG/L	0.01	0.01	every 6 years	06/05/03	PSOC
D(2-ETHYLHEXYL)ADIPATE	A-026	400		UG/L	5	5	once		PSOC
D(2-ETHYLHEXYL)PHTHALATE	39100	4		UG/L	3	3	once		PSOC
DINoseb	81287	7		UG/L	2	2	once		PSOC
DIQUAT	78885	20		UG/L	4	4	once		PSOC
ENDOTHALL	38926	100		UG/L	45	45	waived		PSOC
ENDRIN	39390	2		UG/L	0.1	0.1	waived		PSOC
ETHYLENE DIBROMIDE (EDB)	77651	0.05	0	UG/L	0.02	0.02	every 6 years	06/05/03	PSOC
GLYPHOSATE	79743	700		UG/L	25	25	waived		PSOC
HEPTACHLOR	39410	0.01		UG/L	0.01	0.01	once		PSOC
HEPTACHLOR EPOXIDE	39420	0.01		UG/L	0.01	0.01	once		PSOC
HEXACHLOROBENZENE	39700	1		UG/L	0.5	0.5	once		PSOC
HEXACHLOROCYCLOPENTADIENE	34386	50		UG/L	1	1	once		PSOC
LINDANE	39340	0.2		UG/L	0.2	0.2	once		PSOC
METHOXYCHLOR	39480	40		UG/L	10	10	once		PSOC
MOLINATE	82199	20		UG/L	2	2	once		PSOC
OXAMYL	38865	200		UG/L	20	20	once		PSOC
PENTACHLOROPHENOL	39032	1		UG/L	0.2	0.2	once		PSOC
PICLORAM	39720	500		UG/L	1	1	once		PSOC
POLYCHLORINATED BIPHENYLS (TOTAL PCBs)	39516	0.5		UG/L	0.5	0.5	once		PSOC
SIMAZINE	39055	4		UG/L	1	1	every 6 years		PSOC
THIOBENCARB	A-001	70		UG/L	1	1	once		PSOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
TOXAPHENE	39400	3		UG/L	1	1	once		PSOC
2,3,7,8-TCDD (DIOXIN)	34676	0.00003		UG/L	0.000005	0.000005	waived		PSOC
2,4,5-TP (SILVEX)	39045	50		UG/L	1	1	once		PSOC
Unregulated Synthetic Organic Chemicals									
BORON	01020			MG/L	0.1	1	semi-annual		U
CHROMIUM-6	01032			UG/L	1		semi-annual		U
PERCHLORATE	A-031			UG/L	4	4	semi-annual		U
VANADIUM	01087			UG/L	3	50	semi-annual		U
1,2,3-TRICHLOROPROPANE	77443			UG/L	0.005	0.005	semi-annual		U
DICHLORODIFLUOROMETHANE	34668		0	UG/L	0.5	1000	waived	06/05/03	U
ETHYL-TERT-BUTYL ETHER (ETBE)	A-033		0	UG/L	3		semi-annual	06/05/03	U
TERT-AMYL-METHYL ETHER (TAME)	A-034		0	UG/L	3		semi-annual	06/05/03	U
TERT-BUTYL ALCOHOL	77035		0	UG/L	2	12	semi-annual	06/05/03	U

CSGM

Notes

- (a) For sources not exceeding the MCL or Trigger. Contact the Division of Drinking Water District Office for instructions regarding monitoring requirements to determine compliance when any sample exceeds the MCL or Trigger Level.
- (b) Trigger Level is Secondary MCL
- (c) Samples taken at tap (See CCR Title 22 Section 64682)
- (d) Three Levels: Recommended, Upper, and Short Term (See CCR Title 22 Section 64449)
- (e) Radium-226 + Radium-228 Combined
- (f) Initial Monitoring Requirements

California Code of Regulations, Title 22 (22 CCR)

- PBAC Bacteriological
- PI Primary Inorganic Chemical (22 CCR 64431, Table 64431-A)
- PSOC Regulated Non-Volatile Synthetic Organic Chemicals (SOCs) (22 CCR 64444, Table 64444-A)
- PVOC Regulated Volatile Organic Chemicals (VOCs) (22 CCR 64444, Table 64444-A)
- RAD Radiological (22 CCR 64441 and 64443)
- SI Secondary Inorganic Chemicals (22 CCR 64449)
- U Unregulated Chemicals - (22 CCR 64450, Table 64450)

CALIFORNIA DEPARTMENT OF HEALTH SERVICES, DIVISION OF DRINKING WATER
 Vulnerability Assessment and Monitoring Guidelines
 With WQI Last Sample Report

Name: Julian Community Services District Syst.No.: 3700909 Source VOLCAN WELL 01 11 Date: August 1, 2003

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
<i>Inorganic Chemicals</i>									22
ALUMINUM	01105	1,000		UG/L	50	200 (b)	every 3 years		PI
ANTIMONY	01097	6		UG/L	6	6	every 3 years		PI
ARSENIC	01002	50		UG/L	2	50	every 3 years		PI
ASBESTOS	81855	7		MFL	0.2	7	waived		PI
BARIUM	01007	1,000		UG/L	100	1,000	every 3 years		PI
BERYLLIUM	01012	4		UG/L	1	4	every 3 years		PI
CADMIUM	01027	5		UG/L	1	5	every 3 years		PI
CHROMIUM (TOTAL)	01034	50		UG/L	10	50	every 3 years		PI
COPPER	01042	1,300 (c)		UG/L	50	1,000 (b)	every 3 years		SI
CYANIDE	01291	200		UG/L	100	200	once		PI
FLUORIDE	00951	1.7		MG/L	0.1	1.7	every 3 years		PI
IRON	01045	300		UG/L	100	300	every 3 years		SI
LEAD	01051	15 (e)		UG/L	5	15	every 3 years		PI
MANGANESE	01055	50		UG/L	20	50	every 3 years		SI
MERCURY	71900	2		UG/L	1	2	every 3 years		PI
NICKEL	01067	100		UG/L	10	100	every 3 years		PI
NITRATE (AS NO3)	71850	45	2.4	MG/L	2	23	annually	01/28/03	PI
NITRITE (AS N)	00620	1000	0	UG/L	400	500	every 3 years	01/28/03	PI
SELENIUM	01147	50		UG/L	5	50	every 3 years		PI
SILVER	01077	100		UG/L	10	100	every 3 years		SI
THALLIUM	01059	2		UG/L	1	2	every 3 years		PI
ZINC	01092	5000		UG/L	50	5000	every 3 years		SI
<i>General Mineral</i>									
TOTAL HARDNESS (AS CaCO3)	00900			MG/L			every 3 years		SI
BICARBONATE ALKALINITY	00440			MG/L			every 3 years		SI
CARBONATE ALKALINITY	00445			MG/L			every 3 years		SI
HYDROXIDE ALKALINITY	71830			MG/L			every 3 years		SI
CALCIUM	00916			MG/L			every 3 years		SI
MAGNESIUM	00927			MG/L			every 3 years		SI
SODIUM	00929			MG/L			every 3 years		SI
SULFATE	00945	250, 500, 600 (d)		MG/L	0.5	500	every 3 years		SI
CHLORIDE	00940	250, 500, 600 (d)		MG/L		500	every 3 years		SI

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title 22
General Physical									
TOTAL DISSOLVED SOLIDS	70300	500, 1000, 1500 (b)		MG/L		1000	every 3 years		SI
SPECIFIC CONDUCTANCE	00095	900, 1600, 2200 (d)		US		1600	every 3 years		SI
TURBIDITY (LAB)	82079	5		NTU		5	every 3 years		SI
PH (LABORATORY)	00403			UNITS			every 3 years		SI
COLOR	00081	15		UNITS		15	every 3 years		SI
ODOR THRESHOLD @ 60 C	00086	3		TON	1	3	every 3 years		SI
FOAMING AGENTS (MBAS)	38260	500		UG/L		500	every 3 years		SI
AGGRESSIVENESS INDEX	82383	Non-corrosive					every 3 years		SI
Radiological									
GROSS ALPHA	01501	15		PC/I/L	1	5	4Q every 4 years		RAD
GROSS BETA	03501	50		PC/I/L	4	50	waived		RAD
RADIUM 226	09501	5 (e)		PC/I/L	0.5	5	waived		RAD
RADIUM 228	11501	5 (e)		PC/I/L	0.5	5	waived		RAD
STRONTIUM-90	13501	8		PC/I/L	2	8	waived		RAD
TRITIUM	07000	20,000		PC/I/L	1,000	20,000	waived		RAD
URANIUM	28012	20		PC/I/L	2	20	waived		RAD
Bacteriological									
Total Coliform (Presence/Absence)									PBAC
Fecal Coliform or E. coli									PBAC
Heterotrophic Plate Count									PBAC
Regulated Volatile Organic Chemicals									
BENZENE	34030	1	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
CARBON TETRACHLORIDE	32102	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROBENZENE	34536	600	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,4-DICHLOROBENZENE	34571	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1-DICHLOROETHANE	34496	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROETHANE	34531	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1-DICHLOROETHYLENE	34501	6	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
CIS-1,2-DICHLOROETHYLENE	77093	6	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRANS-1,2-DICHLOROETHYLENE	34546	10	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
DICHLOROMETHANE	34423	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROPROPANE	34541	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,3-DICHLOROPROPENE (TOTAL)	34561	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
ETHYLBENZENE	34371	700	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	13	0	UG/L	3	5	every 6 years	06/05/03	PVOC
MONOCHLOROBENZENE	34301	70	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
STYRENE	77128	100	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,2,2-TETRACHLOROETHANE	34516	1	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
TETRACHLOROETHYLENE	34475	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TOLUENE	34010	150	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2,4-TRICHLOROBENZENE	34551	70	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,1-TRICHLOROETHANE	34506	200	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,2-TRICHLOROETHANE	34511	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRICHLOROETHYLENE	39180	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRICHLOROFLUOROMETHANE	34488	150	0	UG/L	5	5	every 6 years	06/05/03	PVOC
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	1200	0	UG/L	10	10	every 6 years	06/05/03	PVOC
VINYL CHLORIDE	39175	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
XYLENES (TOTAL)	81551	1,750	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
<i>Regulated Synthetic Organic Chemicals</i>									
ALACHLOR	77825	2		UG/L	1	1	waived		PSOC
ATRAZINE	39033	3		UG/L	1	1	every 9 years		PSOC
BENTAZON	38710	18		UG/L	2	2	waived		PSOC
BENZO (A) PYRENE	34247	0.2		UG/L	0.1	0.1	waived		PSOC
CARBOFURAN	81405	18		UG/L	5	5	waived		PSOC
CHLORDANE	39350	0.1		UG/L	0.1	0.1	waived		PSOC
2,4-D	39730	70		UG/L	10	10	waived		PSOC
DALAPON	38432	200		UG/L	10	10	waived		PSOC
DIBROMOCHLOROPROPANE (DBCP)	38761	0.2	0	UG/L	0.01	0.01	waived	06/05/03	PSOC
DI(2-ETHYLHEXYL)ADIPATE	A-026	400		UG/L	5	5	waived		PSOC
DI(2-ETHYLHEXYL)PHTHALATE	39100	4		UG/L	3	3	waived		PSOC
DINOSEB	81287	7		UG/L	2	2	waived		PSOC
DIQUAT	78885	20		UG/L	4	4	waived		PSOC
ENDOTHALL	38926	100		UG/L	45	45	waived		PSOC
ENDRIN	39390	2		UG/L	0.1	0.1	waived		PSOC
ETHYLENE DIBROMIDE (EDB)	77651	0.05	0	UG/L	0.02	0.02	waived	06/05/03	PSOC
GLYPHOSATE	79743	700		UG/L	25	25	waived		PSOC
HEPTACHLOR	39410	0.01		UG/L	0.01	0.01	waived		PSOC
HEPTACHLOR EPOXIDE	39420	0.01		UG/L	0.01	0.01	waived		PSOC
HEXACHLOROBENZENE	39700	1		UG/L	0.5	0.5	waived		PSOC
HEXACHLOROCYCLOPENTADIENE	34386	50		UG/L	1	1	waived		PSOC
LINDANE	39340	0.2		UG/L	0.2	0.2	waived		PSOC
METHOXYCHLOR	39480	40		UG/L	10	10	waived		PSOC
MOLINATE	82199	20		UG/L	2	2	waived		PSOC
OXAMYL	38865	200		UG/L	20	20	waived		PSOC
PENTACHLOROPHENOL	39032	1		UG/L	0.2	0.2	waived		PSOC
PICLORAM	39720	500		UG/L	1	1	waived		PSOC
POLYCHLORINATED BIPHENYLS (TOTAL PCBs)	39516	0.5		UG/L	0.5	0.5	waived		PSOC
SMAZINE	39055	4		UG/L	1	1	every 9 years		PSOC
THIOBENCARB	A-001	70		UG/L	1	1	waived		PSOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (e)	Date of Last Test	Title
TOXAPHENE	39400	3		UG/L	1	1	waived		PSOC
2,3,7,8-TCDD (DIOXIN)	34676	0.00003		UG/L	0.000005	0.000005	waived		PSOC
2,4,5-TP (SILVEX)	39045	50		UG/L	1	1	waived		PSOC
Unregulated Synthetic Organic Chemicals									
BORON	01020			MG/L	0.1	1	semi-annual		U
CHROMIUM-6	01032			UG/L	1		semi-annual		U
PERCHLORATE	A-031			UG/L	4	4	waived		U
VANADIUM	01087			UG/L	3	50	semi-annual		U
1,2,3-TRICHLOROPROPANE	77443			UG/L	0.005	0.005	waived		U
DICHLORODIFLUOROMETHANE	34668		0	UG/L	0.5	1000	waived	06/05/03	U
ETHYL-TERT-BUTYL ETHER (ETBE)	A-033		0	UG/L	3		semi-annual	06/05/03	U
TERT-AMYL-METHYL ETHER (TAME)	A-034		0	UG/L	3		semi-annual	06/05/03	U
TERT-BUTYL ALCOHOL	77035		0	UG/L	2	12	semi-annual	06/05/03	U

CSGP

Notes

- (a) For sources not exceeding the MCL or Trigger. Contact the Division of Drinking Water District Office for instructions regarding monitoring requirements to determine compliance when any sample exceeds the MCL or Trigger Level.
- (b) Trigger Level is Secondary MCL
- (c) Samples taken at tap (See CCR Title 22 Section 64682)
- (d) Three Levels: Recommended, Upper, and Short Term (See CCR Title 22 Section 64449)
- (e) Radium-226 + Radium-228 Combined
- (f) Initial Monitoring Requirements

California Code of Regulations, Title 22 (22 CCR)

- PBAC Bacteriological
- PI Primary Inorganic Chemical (22 CCR 64431, Table 64431-A)
- PSOC Regulated Non-Volatile Synthetic Organic Chemicals (SOCs) (22 CCR 64444, Table 64444-A)
- PVOC Regulated Volatile Organic Chemicals (VOCs) (22 CCR 64444, Table 64444-A)
- RAD Radiological (22 CCR 64441 and 64443)
- SI Secondary Inorganic Chemicals (22 CCR 64449)
- U Unregulated Chemicals - (22 CCR 64450, Table 64450)

CALIFORNIA DEPARTMENT OF HEALTH SERVICES, DIVISION OF DRINKING WATER
 Vulnerability Assessment and Monitoring Guidelines
 With WQI Last Sample Report

Name: Julian Community Services District Syst.No.: 3700909 Source VOLCAN WELL 02 12 Date: August 1, 2003

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
Inorganic Chemicals									
ALUMINUM	01105	1,000		UG/L	50	200 ^(b)	every 3 years		PI
ANTIMONY	01097	6		UG/L	6	6	every 3 years		PI
ARSENIC	01002	50		UG/L	2	50	every 3 years		PI
ASBESTOS	81855	7		MFL	0.2	7	waived		PI
BARIUM	01007	1,000		UG/L	100	1,000	every 3 years		PI
BERYLLIUM	01012	4		UG/L	1	4	every 3 years		PI
CADMIUM	01027	5		UG/L	1	5	every 3 years		PI
CHROMIUM (TOTAL)	01034	50		UG/L	10	50	every 3 years		PI
COPPER	01042	1,300 ^(c)		UG/L	50	1,000 ^(b)	every 3 years		SI
CYANIDE	01291	200		UG/L	100	200	once		PI
FLUORIDE	00951	1.7		MG/L	0.1	1.7	every 3 years		PI
IRON	01045	300		UG/L	100	300	every 3 years		SI
LEAD	01051	15 ^(c)		UG/L	5	15	every 3 years		PI
MANGANESE	01055	50		UG/L	20	50	every 3 years		SI
MERCURY	71900	2		UG/L	1	2	every 3 years		PI
NICKEL	01067	100		UG/L	10	100	every 3 years		PI
NITRATE (AS NO3)	71850	45	< 2	MG/L	2	23	annually	01/28/03	PI
NITRITE (AS N)	00620	1000	0	UG/L	400	500	every 3 years	01/28/03	PI
SELENIUM	01147	50		UG/L	5	50	every 3 years		PI
SILVER	01077	100		UG/L	10	100	every 3 years		SI
THALLIUM	01059	2		UG/L	1	2	every 3 years		PI
ZINC	01092	5000		UG/L	50	5000	every 3 years		SI
General Mineral									
TOTAL HARDNESS (AS CaCO3)	00900			MG/L			every 3 years		SI
BICARBONATE ALKALINITY	00440			MG/L			every 3 years		SI
CARBONATE ALKALINITY	00445			MG/L			every 3 years		SI
HYDROXIDE ALKALINITY	71830			MG/L			every 3 years		SI
CALCIUM	00916			MG/L			every 3 years		SI
MAGNESIUM	00927			MG/L			every 3 years		SI
SODIUM	00929			MG/L			every 3 years		SI
SULFATE	00945	250, 500, 600 ^(d)		MG/L		500	every 3 years		SI
CHLORIDE	00940	250, 500, 600 ^(d)		MG/L	0.5	500	every 3 years		SI

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title 22
General Physical									
TOTAL DISSOLVED SOLIDS	70300	500, 1000, 1500 (d)		MG/L		1000	every 3 years		SI
SPECIFIC CONDUCTANCE	00095	900, 1600, 2200 (d)		US		1600	every 3 years		SI
TURBIDITY (LAB)	82079	5		NTU		5	every 3 years		SI
PH (LABORATORY)	00403			UNITS			every 3 years		SI
COLOR	00081	15		UNITS	1	15	every 3 years		SI
ODOR THRESHOLD @ 60 C	00086	3		TON		3	every 3 years		SI
FOAMING AGENTS (MBAS)	38260	500		UG/L		500	every 3 years		SI
AGGRESSIVENESS INDEX	82383	Non-corrosive							
Radiological									
GROSS ALPHA	01501	15		PCI/L	1	5	4Q every 4 years		RAD
GROSS BETA	03501	50		PCI/L	4	50	waived		RAD
RADIUM 226	09501	5 (e)		PCI/L	0.5	5	waived		RAD
RADIUM 228	11501	5 (e)		PCI/L	0.5	5	waived		RAD
STRONTIUM-90	13501	8		PCI/L	2	8	waived		RAD
TRITIUM	07000	20,000		PCI/L	1,000	20,000	waived		RAD
URANIUM	28012	20		PCI/L	2	20	waived		RAD
Bacteriological									
Total Coliform (Presence/Absence)									PBAC
Fecal Coliform or E. coli									PBAC
Heterotrophic Plate Count									PBAC
Regulated Volatile Organic Chemicals									
BENZENE	34030	1	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
CARBON TETRACHLORIDE	32102	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROBENZENE	34536	600	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,4-DICHLOROBENZENE	34571	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1-DICHLOROETHANE	34496	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROETHANE	34531	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1-DICHLOROETHYLENE	34501	6	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
CIS-1,2-DICHLOROETHYLENE	77093	6	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRANS-1,2-DICHLOROETHYLENE	34546	10	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
DICHLOROMETHANE	34423	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROPROPANE	34541	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,3-DICHLOROPROPENE (TOTAL)	-34561	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
ETHYLBENZENE	34371	700	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	13	0	UG/L	3	5	every 6 years	06/05/03	PVOC
MONOCHLOROBENZENE	34301	70	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
STYRENE	77128	100	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,2,2-TETRACHLOROETHANE	34516	1	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (e)	Date of Last Test	Title 22
TETRACHLOROETHYLENE	34475	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TOLUENE	34010	150	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2,4-TRICHLOROBENZENE	34551	70	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,1-TRICHLOROETHANE	34506	200	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,2-TRICHLOROETHANE	34511	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRICHLOROETHYLENE	39180	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRICHLOROFLUOROMETHANE	34488	150	0	UG/L	5	5	every 6 years	06/05/03	PVOC
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	1200	0	UG/L	10	10	every 6 years	06/05/03	PVOC
VINYL CHLORIDE	39175	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
XYLENES (TOTAL)	81551	1,750	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
Regulated Synthetic Organic Chemicals									
ALACHLOR	77825	2		UG/L	1	1	waived		PSOC
ATRAZINE	39033	3		UG/L	1	1	every 9 years		PSOC
BENTAZON	38710	18		UG/L	2	2	waived		PSOC
BENZO (A) PYRENE	34247	0.2		UG/L	0.1	0.1	waived		PSOC
CARBOFURAN	81405	18		UG/L	5	5	waived		PSOC
CHLORDANE	39350	0.1		UG/L	0.1	0.1	waived		PSOC
2,4-D	39730	70		UG/L	10	10	waived		PSOC
DALAPON	38432	200		UG/L	10	10	waived		PSOC
DIBROMOCHLOROPROPANE (DBCP)	38761	0.2	0	UG/L	0.01	0.01	waived	06/05/03	PSOC
DI(2-ETHYLHEXYL)ADIPATE	A-026	400		UG/L	5	5	waived		PSOC
DI(2-ETHYLHEXYL)PHTHALATE	39100	4		UG/L	3	3	waived		PSOC
DINOSEB	81287	7		UG/L	2	2	waived		PSOC
DIQUAT	78885	20		UG/L	4	4	waived		PSOC
ENDOTHALL	38926	100		UG/L	45	45	waived		PSOC
ENDRIN	39390	2		UG/L	0.1	0.1	waived		PSOC
ETHYLENE DIBROMIDE (EDB)	77651	0.05	0	UG/L	0.02	0.02	waived	06/05/03	PSOC
GLYPHOSATE	79743	700		UG/L	25	25	waived		PSOC
HEPTACHLOR	39410	0.01		UG/L	0.01	0.01	waived		PSOC
HEPTACHLOR EPOXIDE	39420	0.01		UG/L	0.01	0.01	waived		PSOC
HEXACHLOROBENZENE	39700	1		UG/L	0.5	0.5	waived		PSOC
HEXACHLOROCYCLOPENTADIENE	34386	50		UG/L	1	1	waived		PSOC
LINDANE	39340	0.2		UG/L	0.2	0.2	waived		PSOC
METHOXYCHLOR	39480	40		UG/L	10	10	waived		PSOC
MOLINATE	82199	20		UG/L	2	2	waived		PSOC
OXAMYL	38865	200		UG/L	20	20	waived		PSOC
PENTACHLOROPHENOL	39032	1		UG/L	0.2	0.2	waived		PSOC
PIGLORAM	39720	500		UG/L	1	1	waived		PSOC
POLYCHLORINATED BIPHENYLS (TOTAL PCBs)	39516	0.5		UG/L	0.5	0.5	waived		PSOC
SIMAZINE	39055	4		UG/L	1	1	every 9 years		PSOC
THIOBENCARB	A-001	70		UG/L	1	1	waived		PSOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title 22
TOXAPHENE	39400	3		UG/L	1	1	waived		PSOC
2,3,7,8-TCDD (DIOXIN)	34676	0.00003		UG/L	0.000005	0.000005	waived		PSOC
2,4,5-TP (SILVEX)	39045	50		UG/L	1	1	waived		PSOC
Unregulated Synthetic Organic Chemicals									
BORON	01020			MG/L	0.1	1	semi-annual		U
CHROMIUM-6	01032			UG/L	1		semi-annual		U
PERCHLORATE	A-031			UG/L	4	4	waived		U
VANADIUM	01087			UG/L	3	50	semi-annual		U
1,2,3-TRICHLOROPROPANE	77443			UG/L	0.005	0.005	waived		U
DICHLORODIFLUOROMETHANE	34668		0	UG/L	0.5	1000	waived	06/05/03	U
ETHYL-TERT-BUTYL ETHER (ETBE)	A-033		0	UG/L	3		semi-annual	06/05/03	U
TERT-AMYL-METHYL ETHER (TAME)	A-034		0	UG/L	3		semi-annual	06/05/03	U
TERT-BUTYL ALCOHOL	77035		0	UG/L	2	12	semi-annual	06/05/03	U

CSGP

Notes

- (a) For sources not exceeding the MCL or Trigger. Contact the Division of Drinking Water District Office for instructions regarding monitoring requirements to determine compliance when any sample exceeds the MCL or Trigger Level.
- (b) Trigger Level is Secondary MCL
- (c) Samples taken at tap (See CCR Title 22 Section 64682)
- (d) Three Levels: Recommended, Upper, and Short Term (See CCR Title 22 Section 64449)
- (e) Radium-226 + Radium-228 Combined
- (f) Initial Monitoring Requirements

California Code of Regulations, Title 22 (22 CCR)

- PBAC Bacteriological
- PI Primary Inorganic Chemical (22 CCR 64431, Table 64431-A)
- PSOC Regulated Non-Volatile Synthetic Organic Chemicals (SOCs) (22 CCR 64444, Table 64444-A)
- PVOC Regulated Volatile Organic Chemicals (VOCs) (22 CCR 64444, Table 64444-A)
- RAD Radiological (22 CCR 64441 and 64443)
- SI Secondary Inorganic Chemicals (22 CCR 64449)
- U Unregulated Chemicals - (22 CCR 64450, Table 64450)

CALIFORNIA DEPARTMENT OF HEALTH SERVICES, DIVISION OF DRINKING WATER
 Vulnerability Assessment and Monitoring Guidelines
 With WQI Last Sample Report

Name: Julian Community Services District Syst No.: 3700909 Source VOLCAN WELL 03 13 Date: August 1, 2003

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
Inorganic Chemicals									
ALUMINUM	01105	1,000		UG/L	50	200 (b)	every 3 years		PI
ANTIMONY	01097	6		UG/L	6	6	every 3 years		PI
ARSENIC	01002	50		UG/L	2	50	every 3 years		PI
ASBESTOS	81855	7		MFL	0.2	7	waived		PI
BARIUM	01007	1,000		UG/L	100	1,000	every 3 years		PI
BERYLLIUM	01012	4		UG/L	1	4	every 3 years		PI
CADMIUM	01027	5		UG/L	1	5	every 3 years		PI
CHROMIUM (TOTAL)	01034	50		UG/L	10	50	every 3 years		PI
COPPER	01042	1,300 (c)		UG/L	50	1,000 (b)	every 3 years		SI
CYANIDE	01291	200		UG/L	100	200	once		PI
FLUORIDE	00951	1.7		MGL	0.1	1.7	every 3 years		PI
IRON	01045	300		UG/L	100	300	every 3 years		SI
LEAD	01051	15 (e)		UG/L	5	15	every 3 years		PI
MANGANESE	01055	50		UG/L	20	50	every 3 years		PI
MERCURY	71900	2		UG/L	1	2	every 3 years		PI
NICKEL	01067	100		UG/L	10	100	every 3 years		PI
NITRATE (AS NO3)	71850	45	< 2	MGL	2	23	annually	01/28/03	PI
NITRITE (AS N)	00620	1000	0	UG/L	400	500	every 3 years	01/28/03	PI
SELENIUM	01147	50		UG/L	5	50	every 3 years		PI
SILVER	01077	100		UG/L	10	100	every 3 years		SI
THALLIUM	01059	2		UG/L	1	2	every 3 years		PI
ZINC	01092	5000		UG/L	50	5000	every 3 years		SI
General Mineral									
TOTAL HARDNESS (AS CaCO3)	00900			MGL			every 3 years		SI
BICARBONATE ALKALINITY	00440			MGL			every 3 years		SI
CARBONATE ALKALINITY	00445			MGL			every 3 years		SI
HYDROXIDE ALKALINITY	71830			MGL			every 3 years		SI
CALCIUM	00916			MGL			every 3 years		SI
MAGNESIUM	00927			MGL			every 3 years		SI
SODIUM	00929			MGL			every 3 years		SI
SULFATE	00945	250, 500, 600 (d)		MGL	0.5	500	every 3 years		SI
CHLORIDE	00940	250, 500, 600 (d)		MGL		500	every 3 years		SI

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
General Physical									22
TOTAL DISSOLVED SOLIDS	70300	500, 1000, 1500 ^(d)		MG/L		1000	every 3 years		SI
SPECIFIC CONDUCTANCE	00095	900, 1600, 2200 ^(d)		US		1600	every 3 years		SI
TURBIDITY (LAB)	82079	5		NTU		5	every 3 years		SI
PH (LABORATORY)	00403			UNITS			every 3 years		SI
COLOR	00081	15		UNITS		15	every 3 years		SI
ODOR THRESHOLD @ 60 C	00086	3		TON	1	3	every 3 years		SI
FOAMING AGENTS (MBAS)	38260	500		UG/L		500	every 3 years		SI
AGGRESSIVENESS INDEX	82383	Non-corrosive					every 3 years		SI
Radiological									
GROSS ALPHA	01501	15		PCI/L	1	5	4Q every 4 years		RAD
GROSS BETA	03501	50		PCI/L	4	50	waived		RAD
RADIUM 226	09501	5 ^(e)		PCI/L	0.5	5	waived		RAD
RADIUM 228	11501	5 ^(e)		PCI/L	0.5	5	waived		RAD
STRONTIUM-90	13501	8		PCI/L	2	8	waived		RAD
TRITIUM	07000	20,000		PCI/L	1,000	20,000	waived		RAD
URANIUM	28012	20		PCI/L	2	20	waived		RAD
Bacteriological									
Total Coliform (Presence/Absence)									PBAC
Fecal Coliform or E. coli									PBAC
Heterotrophic Plate Count									PBAC
Regulated Volatile Organic Chemicals									
BENZENE	34030	1	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
CARBON TETRACHLORIDE	32102	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROBENZENE	34536	600	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,4-DICHLOROBENZENE	34571	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1-DICHLOROETHANE	34496	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROETHANE	34531	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1-DICHLOROETHYLENE	34501	6	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
CIS-1,2-DICHLOROETHYLENE	77093	6	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRANS-1,2-DICHLOROETHYLENE	34546	10	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
DICHLOROMETHANE	34423	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2-DICHLOROPROPANE	34541	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,3-DICHLOROPROPENE (TOTAL)	34561	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
ETHYLBENZENE	34371	700	0	UG/L	0.5	5	every 6 years	06/05/03	PVOC
METHYL-TERT-BUTYL-ETHER (MTBE)	46491	13	0	UG/L	3	5	every 6 years	06/05/03	PVOC
MONOCHLOROBENZENE	34301	70	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
STYRENE	77128	100	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,2,2-TETRACHLOROETHANE	34516	1	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title 22
TETRACHLOROETHYLENE	34475	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TOLUENE	34010	150	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,2,4-TRICHLOROBENZENE	34551	70	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,1-TRICHLOROETHANE	34506	200	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
1,1,2-TRICHLOROETHANE	34511	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRICHLOROETHYLENE	39180	5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
TRICHLOROFLUOROMETHANE	34488	150	0	UG/L	5	5	every 6 years	06/05/03	PVOC
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	81611	1200	0	UG/L	10	10	every 6 years	06/05/03	PVOC
VINYL CHLORIDE	39175	0.5	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
XYLENES (TOTAL)	81551	1,750	0	UG/L	0.5	0.5	every 6 years	06/05/03	PVOC
Regulated Synthetic Organic Chemicals									
ALACHLOR	77825	2		UG/L	1	1	waived		PSOC
ATRAZINE	39033	3		UG/L	1	1	every 9 years		PSOC
BENTAZON	38710	18		UG/L	2	2	waived		PSOC
BENZO (A) PYRENE	34247	0.2		UG/L	0.1	0.1	waived		PSOC
CARBOFURAN	81405	18		UG/L	5	5	waived		PSOC
CHLORDANE	39350	0.1		UG/L	0.1	0.1	waived		PSOC
2,4-D	39730	70		UG/L	10	10	waived		PSOC
DALAPON	38432	200		UG/L	10	10	waived		PSOC
DIBROMOCHLOROPROPANE (DBCP)	38761	0.2	0	UG/L	0.01	0.01	waived	06/05/03	PSOC
DI(2-ETHYLHEXYL)ADIPATE	A-026	400		UG/L	5	5	waived		PSOC
DI(2-ETHYLHEXYL)PHTHALATE	39100	4		UG/L	3	3	waived		PSOC
DINOSEB	81287	7		UG/L	2	2	waived		PSOC
DIQUAT	78885	20		UG/L	4	4	waived		PSOC
ENDOTHALL	38926	100		UG/L	45	45	waived		PSOC
ENDRIN	39390	2		UG/L	0.1	0.1	waived		PSOC
ETHYLENE DIBROMIDE (EDB)	77651	0.05	0	UG/L	0.02	0.02	waived	06/05/03	PSOC
GLYPHOSATE	79743	700		UG/L	25	25	waived		PSOC
HEPTACHLOR	39410	0.01		UG/L	0.01	0.01	waived		PSOC
HEPTACHLOR EPOXIDE	39420	0.01		UG/L	0.01	0.01	waived		PSOC
HEXACHLOROBENZENE	39700	1		UG/L	0.5	0.5	waived		PSOC
HEXACHLOROCYCLOPENTADIENE	34386	50		UG/L	1	1	waived		PSOC
LINDANE	39340	0.2		UG/L	0.2	0.2	waived		PSOC
METHOXYCHLOR	39480	40		UG/L	10	10	waived		PSOC
MOLINATE	82199	20		UG/L	2	2	waived		PSOC
OXAMYL	38865	200		UG/L	20	20	waived		PSOC
PENTACHLOROPHENOL	39032	1		UG/L	0.2	0.2	waived		PSOC
PICLORAM	39720	500		UG/L	1	1	waived		PSOC
POLYCHLORINATED BIPHENYLS (TOTAL PCBs)	39516	0.5		UG/L	0.5	0.5	waived		PSOC
SIMAZINE	39055	4		UG/L	1	1	every 9 years		PSOC
THIOBENCARB	A-001	70		UG/L	1	1	waived		PSOC

Parameter	STORET	MCL	Result Last Test	Units	DLR	Trigger	Monitoring Frequency (a)	Date of Last Test	Title
TOXAPHENE	39400	3		UG/L	1	1	waived		PSOC
2,3,7,8-TCDD (DIOXIN)	34676	0.00003		UG/L	0.000005	0.000005	waived		PSOC
2,4,5-TP (SILVEX)	39045	50		UG/L	1	1	waived		PSOC
<i>Unregulated Synthetic Organic Chemicals</i>									
BORON	01020			MG/L	0.1	1	semi-annual		U
CHROMIUM-6	01032			UG/L	1		semi-annual		U
PERCHLORATE	A-031			UG/L	4	4	waived		U
VANADIUM	01087			UG/L	3	50	semi-annual		U
1,2,3-TRICHLOROPROPANE	77443			UG/L	0.005	0.005	waived		U
DICHLORODIFLUOROMETHANE	34668	0	0	UG/L	0.5	1000	waived	06/05/03	U
ETHYL-TERT-BUTYL ETHER (ETBE)	A-033		0	UG/L	3		semi-annual	06/05/03	U
TERT-AMYL-METHYL ETHER (TAME)	A-034		0	UG/L	3		semi-annual	06/05/03	U
TERT-BUTYL ALCOHOL	77035		0	UG/L	2	12	semi-annual	06/05/03	U

Notes

- (a) For sources not exceeding the MCL or Trigger. Contact the Division of Drinking Water District Office for instructions regarding monitoring requirements to determine compliance when any sample exceeds the MCL or Trigger Level.
- (b) Trigger Level is Secondary MCL
- (c) Samples taken at tap (See CCR Title 22 Section 64682)
- (d) Three Levels: Recommended, Upper, and Short Term (See CCR Title 22 Section 64449)
- (e) Radium-226 + Radium-228 Combined
- (f) Initial Monitoring Requirements

California Code of Regulations, Title 22 (22 CCR)

- PBAC Bacteriological
- PI Primary Inorganic Chemical (22 CCR 64431, Table 64431-A)
- PSOC Regulated Non-Volatile Synthetic Organic Chemicals (SOCs) (22 CCR 64444, Table 64444-A)
- PVOC Regulated Volatile Organic Chemicals (VOCs) (22 CCR 64444, Table 64444-A)
- RAD Radiological (22 CCR 64441 and 64443)
- SI Secondary Inorganic Chemicals (22 CCR 64449)
- U Unregulated Chemicals - (22 CCR 64450, Table 64450)

CSGP

ATTACHMENT C



MARK B HORTON, MD, MSPH
Director

State of California—Health and Human Services Agency
California Department of Public Health



ARNOLD SCHWARZENEGGER
Governor

May 21, 2008

Harry Seifert
General Manager
Julian Community Services District
PO Box 681
2656 Farmer Rd
Julian, CA 92036

Dear Mr. Seifert:

**JULIAN COMMUNITY SD, SYSTEM NO. 3700909
RADIOLOGICAL WATER QUALITY MONITORING SCHEDULE**

The California Department of Public Health has reviewed the historical radiological monitoring for Jacumba Community SD. Table 1, Radiological Monitoring Data, shows the initial and on going monitoring requirements.

Table 1. Radiological Monitoring Data

Source Name	PS-Code	Initial Requirements				Monitoring Requirements as of Jan. 2008			
		GA	Rad-226	Rad-228	Uranium	GA	Rad-226	Rad-228	Uranium
Well 08	3700909-009	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR
Well 09	3700909-010	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR
Volcan Well 01	3700909-011	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR
Volcan Well 02	3700909-012	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR
Volcan Well 03	3700909-013	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR	4CQR

C=Completed
CQR = Consecutive Quarters Required
NR=Not Required

Mr. Seifert
May 21, 2008

Julian Community SD
System No. 3700909

As noted in Table 1, initial monitoring for Gross Alpha, Radium 226, Radium 228 and Uranium, for all wells, has not been completed. Sampling for these constituents is required to determine compliance. Please ensure that samples are collected in accordance with the schedule provided in Table 1. Also, please note that when monitoring for Gross Alpha particle activity, if the Gross Alpha result is greater than 5 pCi/L, additional sampling for the other constituents may be required.

If you have any questions regarding this letter, please contact Alan Tell or me at (619) 525-4159

Sincerely,

ORIGINAL SIGNED BY

Sean Sterchi, P.E.,
District Engineer

cc: Mark McPherson, Chief, Land & Water Quality Division, County of San Diego,
Department of Environmental Health
File – Correspondence

ATTACHMENT D



MARK B HORTON, MD, MSPH
Director

State of California—Health and Human Services Agency
Department of Public Health



ARNOLD SCHWARZENEGGER
Governor

September 21, 2009

Mr. Harry Seifert
General Manager
Julian Community Services District
P.O. Box 681
Julian, CA 92036

**JULIAN COMMUNITY SERVICES DISTRICT, SYSTEM NO. 3700909
2009 SANITARY SURVEY**

Dear Mr. Seifert:

Michael T. Stewart, a Sanitary Engineer with the California Department of Public Health (CDPH), conducted a Sanitary Survey of the Julian Community Services District (JCSD) water system on June 4, 2009. Thank you for your assistance provided during the visit.

The primary purpose of a sanitary survey (\$64401.40) is to evaluate and document the capabilities of JCSD's sources, treatment, storage, distribution network, operation and maintenance, and overall management to continually provide safe drinking water and to identify any deficiencies that may adversely impact a public water system's ability to provide a safe, reliable water supply. The following is a summary of our findings that includes background information and action items requiring further attention.

Background

JCSD is a publicly owned utility which supplies domestic water to approximately 184 service connections (144 residential, 1 irrigation and 39 commercial) in the township of Julian in San Diego County. JCSD is a community water system that supplies water for domestic purposes to a permanent population of 578 people. JCSD has a seasonal daily maximum of 5,000 according to California Highway Patrol estimates, as reported on JCSD's 2008 Annual Report to the Drinking Water Program (Annual Report). JCSD is located 60 miles east-north-east of the City of San Diego, within the County of San Diego in the township of Julian, California.

The majority of the JCSD service area is located on top of a small plateau with the watershed flowing away from the town site. There is very little aquifer recharge as most of the excess rainfall flows into the surrounding creeks and is not absorbed into the ground. Geological reports state the fractured granite formation underneath Julian forms a bowl beneath the town site area. When there is a normal and above-normal amount of rainfall, the fractures are recharged and the static water levels return to near

PAGES OMITTED

The #1 and #2 Main Reservoirs were video inspected by divers in October 2002. The report indicated that the condition of the tanks were satisfactory.

Storage Reservoirs

Reservoir	Type	Zone Served	Capacity, MG	Min. Level
Untreated Water	Concrete	N/A	0.055	40%
#1	Steel	1 & 2	0.22	66%
#2	Steel	1 & 2	0.22	66%

V. Pumps, Pump Facilities and Controls

JCSD maintains two booster stations. The Volcan booster station pumps the stored raw water in the Volcan reservoir to the water treatment plant. The booster station contains two pumps, controlled both manually and by telemetry. When power is supplied to one of the two booster pumps it cycles on and off to regulate water level in the treated water Main reservoirs between a low level of 16 feet and a high level of 23-feet.

The Treatment plant booster station pumps water from the water treatment plant to the #1 and #2 Main Reservoirs. This booster station contains two 125-gpm pumps controlled automatically from a float switch in the equalization tank. The mode of normal operation is for one of the two pumps to turn on when the equalization tank level is 8 feet and turn off at 3-feet. No deficiencies were noted for the pump facilities.

VI. Monitoring and Reporting

Source Monitoring Schedule

Be advised, some constituents are past due from 2006 and some are due in 2009. §64469(a) requires analytical results of all sample analyses completed in a calendar month be reported to CDPH no later than the tenth day of the following month. Additionally, analytical results shall be reported to CDPH electronically using the Electronic Deliverable Format as defined in The Electronic Deliverable Format (EDF) Version 1.2i Guidelines & Restrictions dated April 2001 and Data Dictionary dated April 2001 (§64469(c)).

While reviewing the delinquent monitoring during the site visit, JCSD produced hard copy analytical results for monitoring that had not been electronically transferred by their laboratory, Environmental Engineering Laboratory (EEL). At that time, efforts began to remedy the situation with EEL. It appears efforts were made by JCSD to ensure the data was transferred.

Action Item: JCSD shall require contracted laboratory to submit outstanding water quality analysis immediately in accordance with reporting requirements as specified in §64469. If no results are forthcoming, notify CDPH of this fact and the reason for it. Failure to monitor or EDT the results will constitute a monitoring and reporting violation and enforcement action may be taken.

Action Item: Review source water monitoring requirements and ensure 2009 monitoring is completed. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

Nitrate and Nitrite

§64432.1(a) states that all public water systems using groundwater shall monitor annually to determine compliance with the MCL for nitrate. Review of the CDPH database shows annual requirements may not have been met, however, review of JCSD records show 2009 results were not reported electronically by the EEL. As noted previously, EEL needs to EDT water quality data.

Well-08, Well-09 and Volcan-1 are due for nitrate and nitrite. These three wells are also missing 2006 nitrite results. 2007 nitrate results have not been reported.

Action Item: JCSD shall monitor for nitrate annually and nitrite tri-annually in accordance with §64432.1. As noted in the previous Source Monitoring Schedule Action Item, please ensure EEL submits any missing past data using EDT.

Organic Chemicals

Chevron is required to collect at least 4 samples on a quarterly basis from all wells specified in Cleanup and Abatement Order 93-49. This includes all Chevron monitoring wells and all JCSD source wells. Chevron is required to perform VOC testing for total petroleum hydrocarbons (as gasoline), benzene, toluene, ethyl benzene, xylenes, and SOC testing for ethylene dibromide. Chevron contracts services to perform these sampling and testing requirements. The Chevron contractor collects samples weekly on the first working day of each week from all wells specified in the order. Sampling locations include the active approved sources Well-03 (standby), Well-08, Well-09, and Volcan Wells 1, 2, and 3.

Title 22 requirements for source water monitoring and compliance when a VOC or SOC in Table 64444-A has been detected in the water supply specifies that sampling be performed quarterly for a minimum of 1 year. The analytical results for the testing of the contaminant are reported to CDPH.

The frequency of sampling conducted by Chevron for JCSD exceeds the sampling requirements listed in Title 22, however data reporting to CDPH is not being conducted as required. The weekly results from source water monitoring are not being reported to CDPH. In addition, a review of JCSD's monitoring program determined that Well-08 is not being monitored at the frequency specified above in the Chevron sampling program.

Action Item: JCSD shall report to CDPH by EDT all VOC and SOC analyses for weekly source water monitoring. VOC data reporting to CDPH shall include benzene, toluene, ethyl benzene, and xylenes. SOC data reporting to CDPH shall include ethylene dibromide. JCSD shall immediately begin monitoring Well-08 quarterly as required by Title 22. Results from weekly sampling as specified in CAO 93-49 can be used to meet Title 22 requirements.

Missing Monitoring Data

The CDPH database does not have 2006 data for VOCs and SOCs for all sources. This may be due to EDT problems with laboratory noted above.

Action Item: JCSD shall require the contracted laboratory to submit 2006 VOC and SOC water quality analysis in accordance with reporting requirements as specified in §64469.

Ground Water Rule

Compliance with the federal Groundwater Rule (GWR) begins December 1, 2009. Please reference this rule when updating the Bacteriological Monitoring Plan as discussed below. If JCSD wishes to get credit for 4-log virus removal/inactivation, please follow the guidelines. Log-reduction credits have been roughly calculated in the following section.

Calculation of Log-Reduction Credits for Viruses

Based on historical residual data and example calculations shown in this section, it has been estimated that JCSD is capable of exceeding 4-log virus inactivation through disinfection.

The following is the theoretical formula for log-reduction of viruses using free chlorine:

Free Cl (pH 6-9):

$$\text{Log-reduction} = \{ [CT \text{ Actual} \times e^{(0.071 \times \text{Temp.})} - 0.42] / 2.94 \}$$

Baffling Factors

Stage 1 – Transmission/pipe: 1.0

Stage 2 – Clearwell: 0.1

Stage 3 – Transmission/pipe: 1.0

Treatment Stage	Disinfectant	Residual Conc. (mg/L)	pH	Temp (C)	Peak Flow (GPM)	Vol. Min. (gal)	Vol. Eff. (gal)	T10 (min)	CT Actual
1. Pipe	Free	1.00	8.00	10.0	100	1,616	1,616	16.2	16.2
2. Clearwell	Free	1.00	8.00	10.0	190	290,000	87,000	457.9	457.9
3. Pipe	Free	1.00	8.00	10.0	100	1,616	1,616	16.2	19.4

Treatment Stage	Log-Reduction (<i>Giardia</i>)	Log-Reduction (viruses)
1. Transmission	0.42	16.63
2. Clearwell	3.78	147.69
3. Transmission	0.35	13.27
System Total	4.56	177.59

The pipe from the booster station/chlorinator to the Clearwell is 1,100 feet of 6-inch C900 PVC. Before entering the distribution system, the water travels back down from the Clearwell to the treatment plant.

Distribution Bacteriological Monitoring

Currently, the monitoring plan requires 1 sample per month and JCSD is drawing 3. The following discusses deficiencies with the monitoring plan and JCSD's laboratory analysis:

Monitoring Plan

JCSD's bacteriological monitoring plan is not adequate and therefore shall be updated and submitted to CDPH for approval, as it does not ensure representative monitoring. Specifically, each of JCSD's two pressure zones shall have a representative sample in accordance with §64422(a)(1). Additionally, GWR requirements should be incorporated for triggered source water monitoring unless JCSD wishes to conduct Treatment Monitoring to comply with 4-log virus inactivation/removal requirements.

Routing procedures as outlined in §64423 and §64423.1 and procedural response when repeat sampling is required as outlined in §64424 shall also be incorporated into the plan and include a sampling protocol and points of contact. Residuals shall be recorded at the same time bacteriological samples are collected. This plan should be a "stand alone" document with regard to bacteriological monitoring.

JCSD shall conduct bacteriological monitoring from each well on a quarterly basis.

Action Item: Please update and submit an updated Bacteriological Sample Site Plan.

Laboratory Analysis

Laboratory analysis of JCSD's bacteriological monitoring has not been received by CDPH from EEL. Copies were faxed from JCSD to CDPH at the time of this survey to cover 2008 and January through May of 2009.

Action Item: Ensure laboratory submits copies to CDPH of all required bacteriological monitoring results directly to CDPH in accordance with §64423.1(c)(2). Failure to comply may result in future enforcement.

Radiological

NOTICE OF VIOLATION: The System failed to conduct initial monitoring in accordance with §64442(b)(3), which states that all community water systems using groundwater shall, by December 31, 2007, complete initial monitoring that consists of four consecutive quarterly samples as per §64442 and summarized in the following table:

Source Name	PS-Code	Initial Requirements			
		GA	Rad-226	Rad-228	Uranium
Well 08	3700909-009	4 CQR	4 CQR	4 CQR	4 CQR
Well 09	3700909-010	4 CQR	4 CQR	4 CQR	4 CQR
Volcan Well 01	3700909-011	4 CQR	4 CQR	4 CQR	4 CQR
Volcan Well 02	3700909-012	4 CQR	4 CQR	4 CQR	4 CQR
Volcan Well 03	3700909-013	4 CQR	4 CQR	4 CQR	4 CQR

CQR = Consecutive Quarters Required

According to CDPH records, it appears JCSD may have sampled in March of 2007 for all wells except Well-03, but did not transmit electronically. CDPH has no record of any subsequent monitoring. Well-03 is a standby source; therefore, initial quarterly and ongoing monitoring is not required.

Action Item: Complete initial monitoring summarized in the table above. Please use the digital monitoring log (Excel spreadsheet) emailed to JCSD to track and report analysis. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

Disinfection By-Products Monitoring (TTHM, HAA5, and Disinfectant Residual)

On September 26, 2007 CDPH received results from JCSD for total trihalomethanes (TTHMs) and haloacetic acids (HAA5) sampled in the third quarter, 2007. Those results were .010 mg/L and .001 mg/L respectively. As per Table 64534.2-B, for a system serving less than 10,000 people using only groundwater not under direct influence of surface water and using a chemical disinfectant, if after at least one year of TTHM and HAA5 results <0.020 mg/L and <0.015 mg/L respectively, the system is eligible for a reduced monitoring frequency for TTHM and HAA5.

Therefore, JCSD is required to take two samples, one from Pressure Zone 1 and one from Pressure Zone 2, per three-year cycle during the month of warmest water temperature at locations representing the maximum residence time as per §64534.2

Disinfection Byproducts Monitoring. This means the next two samples shall be drawn in the third quarter of 2010.

Monitoring Plan

JCSD's Disinfection Byproducts Rule monitoring plan was received by this office on May 3, 2007.

Lead and Copper

JCSD received a Notice of Violation from CDPH May 19, 2006 for failure to sample for lead and copper in 2005. During this 2009 site visit, an invoice was provided with evidence that perhaps 2005 sampling was conducted.

Action Item: Please confirm whether or not 2005 sampling was conducted and if so, forward results to CDPH.

Action Item: Please sample in 2009 for lead and copper between June 1 to September 30. Also, see "Public Notification" section for requirements below.

Lead and Copper Monitoring Schedule and Results

Date Completed/ Monitoring Period	Type	Required Samples	Collected Samples	Lead - 90th Percentile mg/L	Copper - 90th Percentile mg/L
5/22/1996	6-Month	10	10	<0.005	0.17
5/3/2002	6-Month	10	11	<0.005	0.4
12/31/2002	Annual	10	10	0.0065	0.22
9/30/2005	Triennial	5	Missed	Monitoring	
9/27/2006	Extra	5	5	0.0075	0.255
06/01/2008- 09/30/2008	Triennial	5	To Be Sampled 2009		
Action Level				0.015	1.3

JCSD's monitoring to date has shown that the 90th percentile Lead and Copper results have not exceeded the action levels. Following the 2009 monitoring, the next monitoring is scheduled during the summer during June 1 to September 30 2012, provided that the 90th percentile results remain below the action levels.

Perchlorate

Initial monitoring for perchlorate (ClO₄⁻) as required by §64432.3 has not been met for Well-03. Volcan Well-03 is missing March 2008 results but is closely located with the other Volcan wells sourced by the same aquifer. All other wells have met requirements and all reported results for perchlorate were below the Detection Limit for Purposes of

Reporting (DLR). The following table summarizes past and future perchlorate monitoring:

Perchlorate Monitoring Schedule and Results

Source Name	PS-Code	Class	Initial results		Future Monitoring	
			Mar-08	Sep-08	Year	Frequency
Well 03	3700909-005	CSGM STBY	NA	NA	DUE	1/cycle
Well 08	3700909-009	CSGM Active	0	0	2011	1/period
Well 09	3700909-010	CSGM Active	0	0	2011	1/period
Volcan Well 01	3700909-011	CSGP Active	0	0	2011	1/period
Volcan Well 02	3700909-012	CSGP Active	0	0	2011	1/period
Volcan Well 03	3700909-013	CSGP Active	NA	0	2011	1/period

Cycle, or "Compliance cycle," means the nine-year calendar year cycle consisting of three three-year compliance periods. The current cycle began January 1, 2002 and ends December 31, 2010; the third begins January 1, 2011 and ends December 31, 2019 (§64400.20). Period, or "Compliance period," means a three-year calendar year period within a compliance cycle (§64400.25).
NA: Not available

Action Item: Conduct initial monitoring for perchlorate as required by §64432.3 for Well-03. Collect at least two samples, five to seven months apart, with at least one collected between May 1 and September 30. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

JCSD's future monitoring requirements for perchlorate in accordance with §64432.3 are given in the table above. Ensure laboratory is certified by the Environmental Laboratory Accreditation Program (ELAP) for any of these four methods: 314, 314.1, 331.0, and 332.0.

Secondary Maximum Contaminant Levels and Compliance

§64449 requires at a minimum, triennial monitoring of groundwater sources for constituents that have secondary MCLs. No data has been submitted to CDPH since 2003.

Wells are producing water over the secondary maximum contaminant levels (MCL) for iron, manganese, turbidity and zinc as the following June 11, 2003 results show.

Secondary Maximum Contaminant Levels Exceedance

Source Name	PS-Code	Class	Constituent	Result	MCL
Well 08	3700909-009	CSGM Active	Iron	19,000 ppb	300 ppb
			Manganese	400 ppb	50 ppb
			Turbidity	16 NTU	5 NTU
Well 09	3700909-010	CSGM Active	Iron	2,800 ppb	300 ppb
			Turbidity	32 NTU	5 NTU
			Zinc	22,000 ppb	5,000 ppb
Volcan Well 03	3700909-013	CSGP Active	Iron	4,100 ppb	300 ppb
			Manganese	210 ppb	50 ppb
			Turbidity	24 NTU	5 NTU

Currently, monitoring and reporting for these constituents is inadequate. JCSD shall monitor at the sources and treated water at the following frequency:

Action Item: Wells 08, 09 and Volcan Well-03 shall be monitored for constituents exceeding secondary MCLs on an annual basis. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

All other active and standby sources shall be monitored routinely in accordance with the Source Monitoring Schedule.

Sampling of Treated Water Sources.

Chevron is required to collect at least 4 samples on a quarterly basis from a location where treated water is directed to either storage or the distribution system. Chevron is required to perform VOC testing for total petroleum hydrocarbons (as gasoline), benzene, toluene, ethyl benzene, and xylenes and SOC testing for ethylene dibromide. Chevron contracts services to perform these sampling and testing requirements. The Chevron contractor collects samples weekly on the first working day of each week.

Title 22 requires sampling be performed monthly at a point prior to the distribution system. The analytical results for the testing of the contaminants shall be reported to CDPH.

The frequency of sampling conducted by Chevron for JCSD exceeds the sampling requirements listed in Title 22, however data reporting to CDPH is not being conducted as required. The weekly results for testing on the distribution system are currently not being reported to CDPH.

Action Item: JCSD shall report to CDPH by EDT all weekly results for all constituents receiving treatment to meet primary drinking water standards. The effluent of the water treatment plant, at the established compliance point (PS-Code 3700909-002) shall be

monitored. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

Action Item: JCSD shall begin treated-water monitoring and reporting at least monthly for one year for all constituents receiving treatment to meet secondary drinking water standards. After one year, JCSD may apply for a reduction to quarterly monitoring, based on the year's data. The effluent of the water treatment plant, at the established compliance point, (PS-Code 3700909-002) shall be monitored for Iron, Manganese, Turbidity and Zinc. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

Public Notification

Public Notification is required for the monitoring violations discussed above for "Radiological" and "Lead and Copper". Additionally, the water quality monitoring data from 2006 (source), 2007 (nitrate) and 2009 (nitrate/nitrite), has not been reported to CDPH as discussed above. If the data is not transmitted electronically to CDPH by JCSD's laboratory, hard copy results shall be forward by JCSD in response to this survey. If no data is available, JCSD may receive a Notice of Violation and Public Notification shall be required.

Action Item: In accordance with §64463.7(a)(1) Tier 3 Public Notification is required for failure to monitor for "Radiological" and "Lead and Copper"

Action Item: Within 10 days of giving initial or repeat public notice pursuant to Article 18 of this Chapter, JCSD shall submit a certification to CDPH, along with a representative copy of each public notice given in accordance with reporting requirements outlined in §64469(d).

Failure to locate and submit missing data may result in additional enforcement action and will also require Public Notification.

See notification templates under "Notification" at:
<http://www.cdph.ca.gov/certlic/drinkingwater/Pages/default.aspx>

VII. District Management and Operation

A review of current and historical deficiencies has revealed JCSD has recurring compliance issues regarding routine monitoring.

It is prudent JCSD remedy problems with the laboratory and it's own tracking methods to prevent future missed monitoring and any subsequent monitoring violations.

References and Resources

Updated regulations and references available to JCSD's operator are available online. Essential references include Title 22 and Title 17. Recommended references include, but are not limited to, relevant information found at the American Water Works

PAGES OMITTED

ATTACHMENT E

Backup Administrator

From: Wolski, Erica (CDPH-DDWEM)
Sent: Friday, October 21, 2011 10:54 AM
To: 'Harry Seifert'
Cc: Brian.Waite@stantec.com; Sterchi, Sean (CDPH-DDWEM); Evans, Nadine (CDPH-DDWEM)
Subject: Julian - sampling requirements

Hi Harry,

I received the copies of the data you sent. Julian had credit for all samples you sent, except dioxin for the treatment system 3700909-002 which I am having entered.

Please collect the following samples as soon as you can:

Well 9 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium, Zinc,
- Aggressiveness Index, Calcium, Chloride, Color, Foaming Agents (MBAS), Magnesium, Odor, pH, Sodium, Specific Conductance, Sulfate, Total Alkalinity, Bicarbonate, Carbonate, Hydroxide, Total Dissolved Solids (TDS), Total Hardness, Turbidity
- Gross Alpha, Radium 228

Volcan 1 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Lead, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Gross Alpha, Radium 228

Volcan 2 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Lead, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Gross Alpha, Radium 228

Volcan 3 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Color, Foaming Agents (MBAS), Turbidity
- Gross Alpha, Radium 228

Please have your lab submit this data to our database and also send our office a hard copy so I can make sure you get credit.

Thanks,
Erica

Erica Wolski, P.E.
Associate Sanitary Engineer – San Diego District
Southern California Drinking Water Field Ops Branch
1350 Front St, Room 2050, San Diego, CA 92101.

Office: (619) 525-4772
Cell: (760) 301-2841
FAX: (619) 525-4383
Email: Erica.Wolski@cdph.ca.gov

-----Original Message-----

From: Harry Seifert [<mailto:bseifert71@mindspring.com>]
Sent: Wednesday, October 19, 2011 12:52 PM
To: Wolski, Erica (CDPH-DDWEM)
Subject: Missing Title 22 data

Hello Erica,

I am having copies of our most recent Title 22 testing for the JCSD prepared for you.

I have spoken to our laboratory that completed these analyses to determine if they were properly forwarded when they were completed in 2009.

I was assured that they were.

I will have the hard copies of these results mailed to your office by tomorrow, October 20.

Thank you.

Harry Seifert

Backup Administrator

From: Harry Seifert <bseifert71@mindspring.com>
Sent: Friday, October 21, 2011 2:13 PM
To: Wolski, Erica (CDPH-DDWEM)
Cc: Brian.Waite@stantec.com; Sterchi, Sean (CDPH-DDWEM); Evans, Nadine (CDPH-DDWEM)
Subject: Re: Julian - sampling requirements

Hi Erica,

We are leaving IEH-EEL as our testing lab. When we last "completed" our round of Title 22's, I was assured by the then lab director that we were complete in our assessments.

I need to find a lab for our monthly Bac-T's. We will probably go to Enviromatrix, but their Coli-lert price is much more expensive than EEL.

I have just ordered the proper containers for the listed analyses from BC Labs in Bakersfield. When I receive the bottles, I will collect the samples and return them for analysis and reporting.

Harry

On Oct 21, 2011, at 10:54 AM, Wolski, Erica (CDPH-DDWEM) wrote:

Hi Harry,

I received the copies of the data you sent. Julian had credit for all samples you sent, except dioxin for the treatment system 3700909-002 which I am having entered.

Please collect the following samples as soon as you can:

Well 9 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium, Zinc,
- Aggressiveness Index, Calcium, Chloride, Color, Foaming Agents (MBAS), Magnesium, Odor, pH, Sodium, Specific Conductance, Sulfate, Total Alkalinity, Bicarbonate, Carbonate, Hydroxide, Total Dissolved Solids (TDS), Total Hardness, Turbidity
- Gross Alpha, Radium 228

Volcan 1 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Lead, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Gross Alpha, Radium 228

Volcan 2 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Lead, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Gross Alpha, Radium 228

Volcan 3 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,

ATTACHMENT F



RON CHAPMAN, MD, MPH
Director & State Health Officer

State of California—Health and Human Services Agency
California Department of Public Health



EDMUND G. BROWN JR.
Governor

July 17, 2012

Mr. Harry Seifert
General Manager
Julian Community Services District
P.O. Box 681
Julian, CA 92036

**JULIAN COMMUNITY SERVICES DISTRICT, SYSTEM NO. 3700909
2012 SANITARY SURVEY &
NOTICE OF VIOLATION MONITORING & REPORTING
NOTICE OF VIOLATION- CROSS CONNECTION CONTROL PROGRAM**

Dear Mr. Seifert:

Nadine Evans, an Associate Engineer with the California Department of Public Health (CDPH), conducted a Sanitary Survey of the Julian Community Services District (JCSD) water system on February 1, 2012. Thank you for your assistance provided during the visit. The following is a summary of our findings that includes background information and action items requiring further attention.

Background

JCSD is a publicly owned utility which supplies domestic water to approximately 206 service connections (139 residential and 67 commercial) in the township of Julian in San Diego County. JCSD is a community water system that supplies water for domestic purposes to a permanent population of 578 people. JCSD has an additional seasonal population of 527 between August and June each year as reported on JCSD's 2011 Annual Report to the Drinking Water Program (Annual Report).

Permit No. 05-14-03P-008 was issued by CDPH July 31, 2003, but there have been changes noted as of the date of this inspection that were documented in the 2008 sanitary survey and summarized within the applicable sections of this letter.

I. Source

JCSD is currently supplied by four active wells. There are no standby or emergency sources. Included are three wells in a well field developed in 1994 at the base of Volcan Mountain just outside of Julian. The site has a significant size watershed, is relatively protected from future growth, and has a large underground water storage area. Up to

PAGES OMITTED

Storage Reservoirs

Reservoir	Type	Zone Served	Capacity, MG	Min. Level
Untreated Water	Concrete	N/A	0.055	40%
Tank 1	Steel	1 & 2	0.22	66%
Tank 2	Steel	1 & 2	0.22	66%

V. Pumps, Pump Facilities and Controls

JCSD maintains two booster stations. The Volcan booster station pumps the stored raw water in the Volcan reservoir to the water treatment plant. The booster station contains two pumps, controlled manually.

The treatment plant booster station pumps water from the water treatment plant to the Tank 1 and Tank 2 Main Reservoirs. This booster station contains two 125-gpm pumps controlled automatically from a float switch in the equalization tank. The mode of normal operation is for one of the two pumps to turn on when the equalization tank level is 8 feet and turn off at 3-feet. No deficiencies were noted for the pump facilities.

VI. Monitoring and Reporting

NOTICE OF VIOLATION: Source Water Monitoring

Analytical results shall be reported to CDPH electronically using the Electronic Deliverable Format as defined in The Electronic Deliverable Format (EDF) Version 1.2i Guidelines & Restrictions dated April 2001 and Data Dictionary dated April 2001 (§64469(c)). Not all source water quality data that is due has been submitted via electronic data transfer (EDT): A list of constituents that are past due is enclosed. JCSD shall remedy problems with the laboratory and it's own tracking methods to prevent future missed monitoring. Failure to monitor and report water quality analysis as required by regulations will result in further enforcement action by CDPH.

A review of current and historical deficiencies has revealed JCSD has recurring compliance issues regarding routine monitoring. The following constituents are past due:

Well 9 – inorganics and secondary standards that were due in 2006 & 2009 (last samples on record are from 2003)

Volcon Wells 1, 2 and 3 – inorganics were due in 2009 (last samples were Nov 2006)

The system was instructed to complete four quarters for gross alpha and radium 228 from all wells in the September 2009 Sanitary Survey letter and the May 2008

radiological letter. There is no data since then for Well 9. For Volcon Wells 1, 2 and 3, there is a single sample collected for gross alpha in December 2009. However, the system is required to collect four quarters.

Action Item: JCSD shall take all past due samples and require the contracted laboratory to submit outstanding water quality results that have already been analyzed within 30 days in accordance with reporting requirements as specified in §64469.

Distribution Bacteriological Monitoring

Currently, the monitoring plan requires 1 sample per month and JCSD is drawing 3. JCSD routinely submits the Monthly Summary of Distribution System Coliform Monitoring report to CDPH by the 10th of the following month, however, the data results are not submitted by the lab or the water system.

Action Item: JCSD must ensure their laboratory submits copies to CDPH of all required bacteriological monitoring results directly to CDPH in accordance with §64423.1(c)(2). Failure to comply may result in future enforcement.

Secondary Maximum Contaminant Levels and Compliance

§64449 requires at a minimum, triennial monitoring of groundwater sources for constituents that have secondary MCLs. No data has been submitted to CDPH since 2003 for Well 09 and 2009 for Volcan Well 03.

Well 9 and Volcan 3 produce water over the secondary maximum contaminant level for iron, manganese, turbidity and/or zinc as discussed in the most recent results available below.

Secondary Maximum Contaminant Levels Exceedance

Source Name	PS-Code	Class	Date	Constituent	Result	MCL
Well 09	3700909-010	CSGM Active	06/11/2003	Iron	2,800 ppb	300 ppb
				Turbidity	32 NTU	5 NTU
				Zinc	22,000 ppb	5,000 ppb
Volcan Well 03	3700909-013	CSGP Active	12/10/2009	Iron	971 ppb	300 ppb
				Turbidity	132 NTU	5 NTU

Currently, monitoring and reporting for these constituents is inadequate. JCSD shall monitor at the sources and treated water at the following frequency:

Action Item: Well 09 and Volcan Well 03 shall be monitored for constituents exceeding secondary MCLs on an annual basis. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

All other active sources shall be monitored routinely in accordance with the Source Monitoring Schedule.

Action Item: JCSD shall begin treated water monitoring and reporting at least monthly for all constituents receiving treatment to meet secondary drinking water standards. The effluent of the water treatment plant, at the established compliance point, (PS-Code 3700909-002) shall be monitored for Iron, Manganese, Turbidity and Zinc. JCSD shall require the laboratory to submit analytical results electronically to CDPH.

VII. District Management and Operation

Disinfectant Residual in the Distribution System

JCSD samples the entry point to the distribution system daily and records the residual. The distribution system is checked at least three times a month rotating between the east end, middle or west end of the JCSD service area at the same time bacteriological samples are drawn and range from 1.2 – 1.8 ppm.

NOTICE OF VIOLATION: Cross Connection Control Program

JCSD listed nine backflow prevention assemblies and report the last cross connection control survey on July 12, 2010. Four backflow assemblies were tested in 2011 and one was reported repaired/replaced. The user is responsible for scheduling backflow device installation and subsequent maintenance and testing. JCSD provides a list of approved devices.

Action Item: JCSD shall retain a certified Cross Connection Control Specialist to administer the Cross Connection Control Program. Specialist certification can be obtained through training of JCSD staff or by hiring of a qualified consultant. Please submit documentation of specialist certification to CDPH by July 31, 2012.

Action Item: JCSD must work with the County to obtain private well information and incorporate the assessment of this potential backflow hazard into JCSD's CCCP. This assessment will include at a minimum, all domestic wells in the County's database for JCSD's service area, a cross reference to all service connections with a private well on the lot, an inventory of backflow protection devices provided at these services (device type, size, make, serial number, date tested), and any additional follow up necessary to fully address providing the appropriate backflow protection for all service connections with private wells. Please contact CDPH to discuss how to implement this component into the JCSD's CCCP by **August 31, 2012**.

Action Item: Please submit a copy of last annual test results for each of the system's backflow prevention assemblies in response to this survey within 60 days of issuance of this sanitary survey.

PAGES OMITTED

ATTACHMENT G

Backup Administrator

From: Wolski, Erica (CDPH-DDWEM)
Sent: Monday, June 24, 2013 10:46 AM
To: 'Harry Seifert'
Cc: Sterchi, Sean (CDPH-DDWEM)
Subject: RE: Julian - sampling requirements - updated

Sorry, I need to correct the list. There are now additional parameters due since nothing has been done between 2011 and 2013:

Well 9 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc
- Aggressiveness Index, Calcium, Chloride, Color, Foaming Agents (MBAS), Magnesium, Odor, pH, Sodium, Specific Conductance, Sulfate, Total Alkalinity, Bicarbonate, Carbonate, Hydroxide, Total Dissolved Solids (TDS), Total Hardness, Turbidity
- Gross Alpha, Radium 228
- Perchlorate
- full VOC scan

Volcan 1 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc
- Aggressiveness Index, Calcium, Chloride, Color, Foaming Agents (MBAS), Magnesium, Odor, pH, Sodium, Specific Conductance, Sulfate, Total Alkalinity, Bicarbonate, Carbonate, Hydroxide, Total Dissolved Solids (TDS), Total Hardness, Turbidity
- Gross Alpha, Radium 228
- Perchlorate

Volcan 2 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc
- Aggressiveness Index, Calcium, Chloride, Color, Foaming Agents (MBAS), Magnesium, Odor, pH, Sodium, Specific Conductance, Sulfate, Total Alkalinity, Bicarbonate, Carbonate, Hydroxide, Total Dissolved Solids (TDS), Total Hardness, Turbidity
- Gross Alpha, Radium 228
- Perchlorate

Volcan 3 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Zinc
- Aggressiveness Index, Calcium, Chloride, Color, Foaming Agents (MBAS), Magnesium, Odor, pH, Sodium, Specific Conductance, Sulfate, Total Alkalinity, Bicarbonate, Carbonate, Hydroxide, Total Dissolved Solids (TDS), Total Hardness, Turbidity
- Gross Alpha, Radium 228
- Perchlorate

From: Wolski, Erica (CDPH-DDWEM)

Sent: Monday, June 24, 2013 10:31 AM
To: 'Harry Seifert'
Cc: Sterchi, Sean (CDPH-DDWEM); Brian.Waite@stantec.com
Subject: RE: Julian - sampling requirements

Hi Harry,

I checked our database and to my knowledge none of these samples have been completed. Please complete by the end of the month or we will likely be issuing enforcement action. Send a hard copy when you receive your results so I can make sure you get credit and it is not just a lab error.

Also, I'm not sure if there has been any data since 2011 when we last discussed for the Chevron plume, but we are still not getting any data. We are also not being cc'ed on correspondence. I will discuss with Kevin at the County about being included on future correspondence.

Thanks,
Erica

Erica Wolski, P.E.
Associate Sanitary Engineer – San Diego District Southern California Drinking Water Field Ops Branch
1350 Front St, Room 2050, San Diego, CA 92101.
Office: (619) 525-4772
Cell: (760) 301-2841
FAX: (619) 525-4383
Email: Erica.Wolski@cdph.ca.gov

From: Harry Seifert [mailto:bseifert71@mindspring.com]
Sent: Friday, October 21, 2011 2:13 PM
To: Wolski, Erica (CDPH-DDWEM)
Cc: Brian.Waite@stantec.com; Sterchi, Sean (CDPH-DDWEM); Evans, Nadine (CDPH-DDWEM)
Subject: Re: Julian - sampling requirements

Hi Erica,

We are leaving IEH-EEL as our testing lab. When we last "completed" our round of Title 22's, I was assured by the then lab director that we were complete in our assessments.

I need to find a lab for our monthly Bac-T's. We will probably go to Enviromatrix, but their Coli-lert price is much more expensive than EEL.

I have just ordered the proper containers for the listed analyses from BC Labs in Bakersfield. When I receive the bottles, I will collect the samples and return them for analysis and reporting.

Harry
On Oct 21, 2011, at 10:54 AM, Wolski, Erica (CDPH-DDWEM) wrote:

Hi Harry,

I received the copies of the data you sent. Julian had credit for all samples you sent, except dioxin for the treatment system 3700909-002 which I am having entered.

Please collect the following samples as soon as you can:

Well 9 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium, Zinc,
- Aggressiveness Index, Calcium, Chloride, Color, Foaming Agents (MBAS), Magnesium, Odor, pH, Sodium, Specific Conductance, Sulfate, Total Alkalinity, Bicarbonate, Carbonate, Hydroxide, Total Dissolved Solids (TDS), Total Hardness, Turbidity
- Gross Alpha, Radium 228

Volcan 1 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Lead, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Gross Alpha, Radium 228

Volcan 2 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Lead, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Gross Alpha, Radium 228

Volcan 3 -

- Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Fluoride, Iron, Lead, Manganese, Mercury, Nickel, Perchlorate, Selenium, Silver, Thallium,
- Color, Foaming Agents (MBAS), Turbidity
- Gross Alpha, Radium 228

Please have your lab submit this data to our database and also send our office a hard copy so I can make sure you get credit.

Thanks,
Erica

Erica Wolski, P.E.
Associate Sanitary Engineer – San Diego District
Southern California Drinking Water Field Ops Branch
1350 Front St, Room 2050, San Diego, CA 92101.
Office: (619) 525-4772
Cell: (760) 301-2841
FAX: (619) 525-4383
Email: Erica.Wolski@cdph.ca.gov

-----Original Message-----

From: Harry Seifert [mailto:bseifert71@mindspring.com]
Sent: Wednesday, October 19, 2011 12:52 PM
To: Wolski, Erica (CDPH-DDWEM)
Subject: Missing Title 22 data

Hello Erica,

I am having copies of our most recent Title 22 testing for the JCSD prepared for you.

I have spoken to our laboratory that completed these analyses to determine if they were properly forwarded when they were completed in 2009.

I was assured that they were.

I will have the hard copies of these results mailed to your office by tomorrow, October 20.

Thank you.

Harry Seifert

ATTACHMENT H

Instructions for Tier 3 Monitoring Violations Annual Notice Template

Template Attached

Since most monitoring violations are included in Tier 3, you must provide public notice to persons served within one year after you learn of the violation [California Code of Regulations, Title 22, Chapter 15, Section 64463.7(b)]. Multiple monitoring violations can be serious. **Each water system required to give public notice must submit the notice to the Department for approval prior to distribution or posting, unless otherwise directed by the Department [64463(b)].**

Notification Methods

You must use the methods summarized in the table below to deliver the notice to consumers. If you mail, post, or hand deliver, print your notice on letterhead, if available.

<i>If You Are a...</i>	<i>You Must Notify Consumers by...</i>	<i>...and By One or More of the Following Methods to Reach Persons Not Likely to be Reached by the Previous Method...</i>
Community Water System [64463.7(c)(1)]	Mail or direct delivery ^(a)	Publication in a local newspaper
		Posting ^(b) in conspicuous public places served by the water system or on the Internet
		Delivery to community organizations
Non-Community Water System [64463.7(c)(2)]	Posting in conspicuous locations throughout the area served by the water system ^(b)	Publication in a local newspaper or newsletter distributed to customers
		Email message to employees or students
		Posting ^(b) on the Internet or intranet
		Direct delivery to each customer

(a) Notice must be distributed to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system.

(b) Notice must be posted in place for as long as the violation or occurrence continues, but in no case less than seven days.

The notice attached is appropriate for the methods described above, insertion in an annual notice, or included in the Consumer Confidence Report¹. However, you may wish to modify it before using it for posting. If you do, you must still include all the required elements and leave the standard language for monitoring and testing procedure violations and notification language in italics unchanged. This language is mandatory [64465].

¹ CCR may be used as long as public notification timing and delivery requirements are met [64463.7(d)].

You may need to modify the template for a notice for individual monitoring violations. The template presents violations in a table; however, you may write out an explanation for each violation if you wish. For any monitoring violation for volatile organic compounds (VOCs) or other groups, you may list the group name in the table, but you must provide the name of every chemical in the group on the notice (e.g., in a footnote). An example is shown in the table below.

<i>Contaminant</i>	<i>Required Sampling Frequency</i>	<i>Number of Samples Taken</i>	<i>When All Samples Should Have Been Taken</i>	<i>When Samples Were or Will Be Taken</i>
VOCs ^(a)	1 sample every 3 years	None	2002 – 2005	February 2006

(a) Benzene; Carbon Tetrachloride; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; 1,1-Dichloroethane; 1,2-Dichloroethane; 1,1-Dichloroethylene; cis-1,2-Dichloroethylene; trans-1,2-Dichloroethylene; Dichloromethane; 1,2-Dichloropropane; 1,3-Dichloropropane; Ethylbenzene; Methyl-*tert*-butyl ether; Monochlorobenzene; Styrene; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; Toluene; 1,2,4-Trichlorobenzene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethylene; Trichlorofluoromethane; 1,1,2-Trichloro-1,2,2-Trifluoroethane; Vinyl Chloride; and Xylenes.

You may need to modify the notice if you had any monitoring violations for which monitoring later showed a maximum contaminant level or other violation. In such cases, you should refer to the public notice you issued at that time.

Multilingual Requirement

Spanish. Each public notice must contain information in Spanish regarding (1) the importance of the notice or (2) contain a telephone number or address where Spanish-speaking residents may contact the water system to obtain a translated copy of the public notice or assistance in Spanish.

Non-English Speaking Groups Other than Spanish-Speaking. For each group that exceeds 1,000 residents or 10% of the residents in the community served, whichever is less, the public notice must (1) contain information in the appropriate language(s) regarding the importance of the notice or (2) contain a telephone number or address where such residents may contact the water system to obtain a translated copy of the notice or assistance in the appropriate language.

Population Served

Make sure it is clear who is served by your water system -- you may need to list the areas you serve.

Corrective Actions

In your notice, describe corrective actions you took or are taking. Listed below are some steps commonly taken by water systems with monitoring violations. Choose the appropriate language, or develop your own:

- “We have since taken the required samples, as described in the last column of the table above. The samples showed we are meeting drinking water standards.”
- “We have since taken the required samples, as described in the last column of the table above. The sample for [contaminant] exceeded the limit. [Describe corrective action; use information from public notice prepared for violating the limit.]”
- “We plan to take the required samples soon, as described in the last column of the table above.”

After Issuing the Notice

Send a copy of each type of notice and a certification that you have met all the public notice requirements to the Department within ten days after you issue the notice [64469(d)]. You should also issue a follow-up notice in addition to meeting any repeat notice requirements the Department sets.

It is recommended that you notify health professionals in the area of the violation. People may call their doctors with questions about how the violation may affect their health, and the doctors should have the information they need to respond appropriately.

It is a good idea to issue a “problem corrected” notice when the violation is resolved.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Este informe contiene información muy importante sobre su agua potable.
Tradúzcalo o hable con alguien que lo entienda bien.

Monitoring Requirements Not Met for Julian Community Service District

Our water system failed to monitor as required for drinking water standards during the past year and, therefore, was in violation of the regulations. Even though this failure was not an emergency, as our customers, you have a right to know what you should do, what happened, and what we did to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2004-2013, we did not complete all monitoring or testing for multiple contaminants and therefore, cannot be sure of the quality of our drinking water during that time.

What should I do?

- There is nothing you need to do at this time.
- The table below and on the following page lists the contaminants we did not properly test for during the last year, how many samples we are required to take and how often, how many samples we took, when samples should have been taken, and the date on which follow-up samples were or will be taken.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When All Samples Should Have Been Taken	When Samples Were or Will Be Taken
Nitrate	1 sample every 1 year	None	2007, 2012	Sampled each source twice in 2013. Currently in compliance, next due in 2014
Nitrite	1 sample every three years	None	2006	Sampled each source during 2009-2011. Currently in compliance, next due in 2014
Perchlorate	1 sample every three years	None	2011	Last sampled in 2008. Samples will be taken in 2014.

Contaminant	Required Sampling Frequency	Number of Samples Taken	When All Samples Should Have Been Taken	When Samples Were or Will Be Taken
Inorganics ^a	1 sample every three years	None	2006, 2009 and 2012	Last sampled in 2003. Samples will be taken in 2014.
Secondary Standards ^(b)	1 sample every three years	None	2006, 2009 and 2012	Last sampled in 2003. Samples will be taken in 2014.
Radionuclides ^(c)	Initial monitoring: 2 samples in 2007	None	2007	Last sampled in 2003. Samples will be taken in 2014.
VOCs ^(d) – Well 9 only	Quarterly for one year in 2003-2004; 1 sample every 3 years afterward	None	Quarterly in 2003-2004; triennial sample due in 2006 and 2012	Last sampled in 2009. Samples will be taken in 2014.
SOCs ^(e)	1 sample every 9 years	None	2012	Last sampled in 2003. Samples will be taken in 2014.

(a) Aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, fluoride, mercury, nickel, selenium, and thallium.

(b) Iron, copper, manganese, silver, zinc, color, odor, foaming agents (MBAS), turbidity, total dissolved solids, specific conductance, chloride, sulfate, total hardness, sodium, magnesium, calcium, pH, and alkalinity.

(c) Gross alpha and radium 228

(d) Benzene; Carbon Tetrachloride; 1,2-Dichlorobenzene; 1,4-Dichlorobenzene; 1,1-Dichloroethane; 1,2-Dichloroethane; 1,1-Dichloroethylene; cis-1,2-Dichloroethylene; trans-1,2-Dichloroethylene; Dichloromethane; 1,2-Dichloropropane; 1,3-Dichloropropane; Ethylbenzene; Methyl-*tert*-butyl ether; Monochlorobenzene; Styrene; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; Toluene; 1,2,4-Trichlorobenzene; 1,1,1-Trichloroethane; 1,1,2-Trichloroethane; Trichloroethylene; Trichlorofluoromethane; 1,1,2-Trichloro-1,2,2-Trifluoroethane; Vinyl Chloride; and Xylenes.

(e) Atrazine and simazine

- If you have health issues concerning the consumption of this water, you may wish to consult your doctor.

What happened? What is being done?

Julian Community Service District shall complete the required overdue chemical monitoring sampling for all four groundwater wells by [INSERT DATE, 2014].

For more information, please contact [name of contact] at [phone number] or [mailing address].

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in

apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail.

Secondary Notification Requirements

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:

- **SCHOOLS:** Must notify school employees, students, and parents (if the students are minors).
- **RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS** (including nursing homes and care facilities): Must notify tenants.
- **BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS:** Must notify employees of businesses located on the property.

This notice is being sent to you by Julian Community Service District.

State Water System ID#: 3700909 . **Date distributed:** .

ATTACHMENT I

Drinking Water Notification to Consumers

PROOF OF NOTIFICATION

Name of Water System: _____

Please explain what caused the problem if you have determined what it was and what steps you have taken to correct it. _____

Consumers Notified _____ Yes _____ No

If not, Explain: _____

Date of Notification: _____

On the date of notification set forth above, I served the above referenced document(s) on the consumers by:

_____ Sending a copy through the U.S. Mail, first class, postage prepaid, addressed to each of the resident(s) at the place where the property is situated, pursuant to the California Civil Code. Attach copy of Notice.

_____ Newspaper (if the problem has been corrected). Attach a copy of Notice.

_____ Personally hand-delivering a copy to each of the consumers. Attach a copy of Notice.

_____ Posted on a public bulletin board, that will be seen by each of the consumers (for small, non-community water systems with prior Department approval). Attach copy of Notice.

I hereby declare the forgoing to be true and correct under penalty of perjury.

Dated: _____

Signature of Person Serving Notice

**** Notice:** Complete this Proof of Notification and return it along with a copy of the notification to the Department within 10 days of posting the notification.

Disclosure: Be advised that the California Health and Safety Code states that any person who knowingly makes a false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars (\$5,000) for each separate violation for each day that violation continues. In addition, the violators may be prosecuted in criminal court and upon conviction, be punished by fine of not more than twenty-five thousand dollars (\$25,000) for each day of violation, or be imprisoned in county jail not to exceed one year or by both the fine and imprisonment.

ATTACHMENT J

State of California
Water Resources Control Board
Division of Drinking Water
San Diego Office

CROSS-CONNECTION CONTROL PROGRAM EVALUATION

System Name _____ Number _____
CCCPE Date _____ Prior CCCPE Date _____ DWFOB Engineer Sean Sterchi
Cross Connection Contact Person _____ Phone _____

I. GENERAL

A. Does utility have an active Cross-Connection Control Program that Meets Title 17 requirements? Yes () No ()

B. How is program administered?

In house ()

By contract with (specify) ()

Coordinated with (specify) ()

Name of Administrator:

II. ELEMENTS OF A CROSS-CONNECTION CONTROL PROGRAM

A. ORDINANCE OR RULES OF SERVICE

Has utility adopted an enforceable, DDWEM approved Cross-Connection Control Ordinance or rules of service? Yes () No ()

Comments:

B. CROSS CONNECTION SURVEY

1. Has a priority list for inspecting customer's premises been established? Yes () No ()

2. Has an initial survey been conducted to determine specific cross connection control hazards and the need for back flow protection? Yes () No ()

3. Are premises periodically reevaluated? Yes () No ()

4. Are new services, enlarging existing services and changing of occupant reviewed to establish the need for back flow protection? Yes () No ()

Comments:

C. PROVISIONS FOR BACK FLOW PROTECTION

1. How is back flow protection provided?

- Premises isolation ()
- Internal protection ()
- Combination ()

2. Who is responsible for installation of devices?

- Water Purveyor ()
- Water User ()
- Both ()
- Other ()

3. If the user is responsible for installation of devices, is a list of approved back flow devices provided to the user? Yes () No ()

What is the source of that list?

4. Is the installation of approved back flow devices inspected to determine if they have proper clearance, drainage and security as specified in Section 7603? Yes () No ()

By whom?

5. Are users, who are in noncompliance with the cross-connection policy, given written notice to make corrections? Yes () No ()

6. Describe procedures followed when corrections are not made.

D. PROGRAM MANAGEMENT

1. Does the utility employ or contract with at least one person trained in cross-connection control? Yes () No ()

List the personnel employed by or under contract to the water utility with expertise and authority to conduct cross-connection control surveys and carry out the cross-connection program.

Name	Phone No.	Grade	Education/Training	Experience

E. DEVICE TESTING AND MAINTENANCE

1. Are all back flow devices tested at least annually? Yes () No ()

Number of back flow devices in system.
Number of devices installed during past year.
Number of devices tested during the past year.
Comments:

2. Back flow devices are tested by:

Water Purveyor ()
Water User ()
Both ()
Other ()

3. Are the devices tested by certified back flow device testers? Yes () No ()

4. If the user is responsible for testing of devices, is a list of certified testers provided? (A list of certified testers is attached.) Yes () No ()

5. Back flow devices are maintained by:

Water purveyor ()
Water User ()
Both ()
Other ()

6. Are follow-up inspections conducted to determine compliance with testing and maintenance requirements? Yes () No ()

By whom?

F. RECORDS

1. Are records of installation, inspection and testing maintained? Yes () No ()
By whom?

G. OTHER

1. Does utility have an up to date copy of the Green Manual? Yes () No ()

Comments:

III. DEGREE OF PROTECTION

A. What type of back flow protection devices are installed for the following situations?

Facility	N/A	AG	RPP	DC	Other	None
Bottling Plants/Breweries						
Building (multi story 5 plus floors)						
Food Processing (Except Restaurants)						
Chemical Plants						
Cold Storage Plant						
Dairies						
Film Processing						
Laundries & Dye works						
Medical Buildings (clinics hospital, mortuary)						
Metal Processing						
Petroleum & Gas Handling						
Paper & Pulp Products						
Plating Facilities						
Power/Heating/Air Conditioning Plants						
Pumping of Liquids						
(a) Chemical Laundry						
(b) Water Tank Trucks						
(c) Carpet Cleaner Trucks						
(d) Pesticide Trucks						
RV Dump Stations						
Recycled Water Systems						
(a) Car Wash Facilities						
(b) Cooling Towers						
(c) Log Decks						
(d) Ornamental Fountains						
Restricted/Classified or other Closed Facilities						
Rubber Plants						
Solar Heating Installations						
Sand and Gravel Plants						
Schools/Colleges						
(a) Laboratory Facilities						
(b) Boiler plant						
Water Front Facilities						
(a) Marinas						
(b) Docks and Piers						

B. What type of back flow protection is provided for the following situations?

Facility	N/A	AG	RPP	DC	Other	None
Sewage treatment plants						
Sewage lift stations						
Reclaimed water systems						
Supplement by public water supply						
Separated from system						
Irrigation systems						
Landscape						
Agricultural						
With chemical injection						
Unapproved auxiliary water systems (i.e. wells, ponds, etc.)						
Interconnected with Water systems						
Separated from Water System						
Industrial plants with internal hazards						
Hospitals and clinics						
Laboratories						
Premises with restricted Access						
Fire system connected to water system						
w/Unapproved water supply on premise but not connected						
connected to public water supply and interconnected to Unapproved auxiliary supply						
Supplies from water system with on-site private storage or fire pumps						
Sewer flushing operations						
Other						

Comments:

IV OVERALL PROGRAM EVALUATION