

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

IN RE: **BURREL UNION SCHOOL**
Water System No. 1000182

TO: Mr. Victor Villar
16704 S. Jameson Ave.
Burrel, CA 93607

CC: Fresno County Division of Environmental Health

CITATION FOR NONCOMPLIANCE
TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL VIOLATION

JULY 2013

Issued on October 28, 2013

Section 116650, Chapter 4, Part 12, Division 104 of the California Health and Safety Code (CHSC), authorizes the issuance of a citation for failure to comply with a requirement of the California Safe Drinking Water Act, or any regulation, standard, permit, or order issued hereunder.

VIOLATION

The Drinking Water Field Operations Branch of the California Department of Public Health (hereinafter 'Department') hereby issues a Citation to Burrel Union School (hereinafter 'Water System'), for failure to comply with Section 116555(a)(1) of the CHSC and Section 64426.1(b)(2) of Title 22, California Code of Regulations (CCR). Specifically, the Water System (mailing address: 16704 S. Jameson Avenue, Burrel, CA 93607) failed to comply with the total coliform Maximum Contaminant Level (MCL) for the month of July 2013.

1 The Water System operates under a domestic water supply permit issued by the Department
 2 in December 2010. Burrel Union School is a non-transient non-community water system
 3 serving a population of approximately one hundred seventy five (175) persons through nine
 4 (9) service connections. The Water System has provided continuous chlorination since
 5 prior to the transfer of its regulatory oversight from Fresno County to the Department.

6
 7 Section 64426.1(b)(2) specifies that a public water system collecting fewer than 40 samples
 8 per month is in violation of the total coliform MCL when more than one sample collected
 9 during any month is total coliform-positive.

10
 11 The Water System is required to collect a minimum of one (1) distribution system
 12 bacteriological sample per month. The bacteriological water analysis results submitted by
 13 the Water System reported the presence of total coliform bacteria in two (2) of thirteen (13)
 14 samples collected by the Water System in July of 2013. None of the positive samples
 15 showed the presence of fecal coliform or *E. coli* bacteria. One source sample, collected on
 16 June 30, 2013, appears to have triggered the repeat sampling in July. It was positive for
 17 total coliform bacteria and there were no *E. Coli* or fecal coliform bacteria results reported.

18
 19 The following table summarizes the bacteriological monitoring conducted during the
 20 months of June, July, August and September 2013.

21

22 Collection Date	23 Number of Samples	Sample Type	Number Samples TC positive	Number Samples E. Coli positive	Chlorine Residual (mg/L)
24 6/30/2013	2	Routine + Well	1 (at well)	Presence or Absence of E. Coli not reported	0.02
25 7/6/2013	5	Repeat + Well	2	0	Not reported
26 7/9/2013	5	Repeat + Well	0	0	Not reported

27

1	7/31/2013	5	Routine + Well	0	0	Not reported
2	8/30/2011	1	Routine	0	0	0.07
3	9/30/2011	1	Routine	0	0	0.15

4
5 Due to the above-mentioned total coliform positive samples, the Water System failed the
6 total coliform MCL for the month of July 2013. All water samples for coliform bacteria
7 collected during 2012 and 2013 are summarized in Attachments A and B.

8
9 The contamination may have arisen in the well if one considers the positive coliform results
10 obtained from the June 30, 2013 sample. It is unknown if E. Coli bacteria was present in the
11 well. Subsequent testing of the well during July 2013 resulted in negative samples for total
12 coliform bacteria. The Water System has, in the past, provided continuous chlorination. The
13 chlorine residual on June 30, 2013 was reported to be 0.02 mg/L. No chlorine residuals
14 were reported during the month of July 2013.

15
16 **The five routine samples required the month following a month with one or more total**
17 **coliform-positive samples were not collected in August 2013.**

18
19 The Groundwater Rule adopted by the Department, effective August 18, 2011, requires the
20 collection of a sample for bacteriological evaluation from wells serving the system in
21 response to a coliform positive distribution sample. This requirement was met with each
22 round of repeat sampling conducted by the Water System in July 2013.

23
24 **ASSOCIATED VIOLATIONS**

25 Additionally, the Water System has failed to comply with the following Section 64424 of
26 Title 22, CCR:

27

1
2
3 Section 64424(d) specifies that if a public water system for which fewer than five routine
4 samples per month are collected has one or more total coliform-positive samples, the water
5 supplier shall collect at least five routine samples the following month. Only one routine
6 distribution sample was collected during the month of August 2013.
7

8 NOTIFICATION REQUIREMENTS

9 Section 64426.1(c) requires a public water system to notify the Department and the
10 consumers of the water system, when a violation of Section 64426.1(b)(1) through (4)
11 occurs. Notification to the Department shall be by the end of the business day on which the
12 violation has been determined. If the Department is closed, notification shall be within 24
13 hours of the determination. **The Department was not notified in accordance with the**
14 **above-referenced section.**
15

16 A Tier 2 Public Notice for violation of paragraph 64426.1(b)(2) shall be given pursuant to
17 Section 64463.4 and 64465. The Tier 2 Public Notice shall include the mandatory health
18 effects language from Appendix 64465-A for a total coliform MCL failure.
19

20 Section 64463.4 allows non-transient non-community water systems to give public notice
21 by posting the notice in conspicuous locations throughout the area served by the water
22 system and by the use of one or more of the following methods in order to reach persons not
23 likely to be reached by a public posting: publication in a local newspaper or newsletter
24 distributed to customers, e-mailing the public notice to water system customers, post the
25 public notice on the internet, or by delivery to each customer. The Tier 2 notification
26 template is included as Attachment C.
27

1 The Water System shall post the public notice in conspicuous locations within the water
2 system. Section 116450(g) requires that upon receipt of notification from a public water
3 system, schools must notify school employees, students, and parents (if the students are
4 minors), residential rental property owners or managers (including nursing homes and care
5 facilities) must notify their tenants and business property owners, managers or operators
6 must notify employees of businesses located on the property. These secondary notification
7 requirements are included in the public notice.

8
9 Proof of notification is required. The Water System shall complete Attachment D and return
10 it to the Department by **November 30, 2013**.

11
12
13 **DIRECTIVES**

14
15 The Water System is hereby directed to take the following actions:

- 16 1. By **November 15, 2013**, the Burrel Union School water system shall provide public
17 notification of the total coliform Maximum Contaminant Level failure by posting
18 the notice provided as Attachment C in conspicuous locations throughout the area
19 served by the water system. The Water System is additionally required to use one
20 or more of the following notification methods in order to reach persons not likely to
21 be reached by a public posting: publication in a local newspaper or newsletter
22 distributed to customers, e-mailing the public notice to water system customers, post
23 the public notice on the internet, or by delivery to each customer.

24
25
26
27

1 By **November 30, 2013**, the Water System shall provide proof of public notification
2 of the total coliform MCL violation by completing Attachment D and returning it to:

3 Betsy S. Lichti, Senior Sanitary Engineer
4 Department of Public Health
5 Drinking Water Field Operations Branch
6 265 W. Bullard Avenue, Suite 101
7 Fresno, CA 93704

8 2. Whenever the Water System has one or more total coliform-positive samples in a
9 given month, at least five (5) routine samples shall be collected the following month
10 as required by Section 64424(d) and as discussed in this Citation.

11 3. The Water System shall notify the Department of any further violations of the total
12 coliform MCL by the end of the business day on which the violation has been
13 determined, or, if the Department is closed, within 24 hours of the determination.
14

15 4. By **November 30, 2013**, the Water System shall complete and submit the enclosed
16 “Positive Total Coliform Investigation” form to the Department that describes the
17 incident and all corrective actions taken, and the results of the investigation. The
18 appropriate investigation report is provided as Attachment E.
19

20 5. A chlorine residual of at least 0.2 mg/l shall be maintained in all areas of the
21 distribution system at all times. The chlorine residual must be measured and
22 reported at the same time and location(s) that the bacteriological sample(s) are
23 collected. The residual(s) should be provided to the Department along with the
24 bacteriological laboratory analysis.
25
26
27

6. The Water System shall require their contracting laboratory to report a result for *E. Coli* bacteria whenever the presence of total coliform bacteria has been detected in a sample.

CIVIL PENALTIES

Sections 116650(d) and 116650(e) of the CHSC allow for the assessment of a civil penalty for failure to comply with requirements of the California Safe Drinking Water Act. Failure to comply with any provision of this Citation may result in the Department imposing an administrative penalty of not less than \$100 (one hundred dollars) per day as of the date of violation of any provision of this Citation.

10/28/13

Date

Betsy S. Lichti

Betsy S. Lichti, P.E.
Senior Sanitary Engineer, Fresno District
DRINKING WATER FIELD OPERATIONS BRANCH



BSL/EL

Attachments:

- Attachment A: Bacteriological Distribution Monitoring Report
- Attachment B: Source Bacteriological Monitoring Report
- Attachment C: Public Notice
- Attachment D: Proof of Notification Form
- Attachment E: Positive Total Coliform Investigation Form

Bacteriological Distribution Monitoring Report

1000182 Burrel Union School
Distribution System Freq: 1/M

Sample Date	Time	Location	T Coli	E Coli	F Coli	Type	Cl2	Violation	Comment
1/31/2012	20:48	Residence #1	A	A		Routine	0.36		
2/29/2012	4:30	Music Building	A	A		Routine			
3/29/2012	10:55	Maggini Building	A	A		Routine	0.41		
4/30/2012	14:35	Residence #1	A	A		Routine	0.17		
5/30/2012	16:40	Residence #2	A	A		Routine	0.24		
6/29/2012	4:25	Music Building	A	A		Routine	0.18		
7/27/2012	16:18	Maggini Bldg	A	A		Routine	0.13		
8/31/2012	4:30	Residence #1	A	A		Routine			
9/30/2012	22:51	Residence #2	A	A		Routine	0.05		
10/31/2012	4:15	Residence #1	A	A		Routine			
10/31/2012	4:15	Residence 1	A	A		Routine			
11/30/2012	4:42	Music Bulding	A	A		Routine			
12/27/2012	11:02	Maggini Building	A	A		Routine	0.09		
1/31/2013	4:19	Residence 1	A	A		Routine	0.17		
2/27/2013	4:35	Residence 1	A	A		Routine			
3/31/2013	22:37	Music Building	A	A		Routine	0.09		
4/30/2013	23:15	Residence 2	A	A		Routine	0.15		
5/31/2013	4:37	Maggini Building	A	A		Routine	0.04		
6/30/2013	22:41	Well	12.0	No Result		Routine			No E. coli result reported with positive Total Coliform result
6/30/2013	22:54	Residence #1	A	A		Routine	0.02		
7/6/2013	5:09	Well Head	A	A		Source Repeat			
7/6/2013	16:51	Residence 1	A	A		Repeat			
7/6/2013	16:57	Residence 2	P	A		Repeat			
7/6/2013	17:09	Music Bldg	A	A		Repeat			
7/6/2013	17:11	Maginni Building	P	A		Repeat		MCL	
7/9/2013	12:15	Well Head	A	A		Source Repeat			
7/9/2013	12:23	Residence #1	A	A		Repeat			
7/9/2013	12:26	Residence #2	A	A		Repeat			
7/9/2013	12:43	Maggini Bldg	A	A		Repeat			
7/9/2013	12:44	Music Bldg	A	A		Repeat			
7/31/2013	22:11	Well	A	A		Routine			
7/31/2013	22:17	Residence #1	A	A		Routine			
7/31/2013	22:28	Residence #2	A	A		Routine			
7/31/2013	22:39	Music Building	A	A		Routine			
7/31/2013	22:46	Maggini Building	A	A		Routine			
8/30/2013	22:17	Residence 1	A	A		Routine	0.07		
9/30/2013	22:45	Music Bldg	A	A		Routine	0.15		

Violation Key

MCL	Exceeds the maximum contaminant level	MR5	Incorrect number of repeat samples as follow-up to a positive sample
MR1	No monthly sample for the report month	MR6	No source sample
MR2	No quarterly sample for the report month	MR7	No summary report submitted
MR3	Incorrect number of routine samples for the report month	MR8	Other comments and/or info
MR4	Did not collect 5 routine samples for previous month's positive sample	MR9	Cl2 not reported

Source Bacteriological Monitoring Report

1000182 Burrel Union School

<i>Sample Date</i>	<i>Time</i>	<i>Source</i>	<i>Sample Type</i>	<i>Test Method</i>	<i>T Coli</i>	<i>E Coli</i>	<i>F Coli</i>	<i>HPC</i>	<i>Violation</i>	<i>Comments</i>
6/24/2011	8:10	Well Head	Well	MPN	<1.1		<1.1			
8/2/2011	10:28	Well - K - 8	Well	P/A	A					
9/30/2011	12:25	Well Head	Well	MPN	<1.1	<1.1				
12/29/2011	17:50	Well Head	Well	MPN	<1.1		<1.1			
3/29/2012	10:05	Well Head	Well	MPN	<1.1		<1.1			
6/29/2012	4:11	Well	Well	MPN	<1.1		<1.1			
9/30/2012	22:45	Well Head	Well	MPN	<1.1					
12/27/2012	10:53	Well	Well	MPN	<1.1					
3/31/2013	22:15	Well Head	Well	MPN	<1.1					
6/30/2013	22:41	Well Head	Well	MPN	12	not reported				
7/6/2013	17:09	Well Head	Well	P/A	A	A				
7/9/2013	12:15	Well Head	Well	P/A	A	A				
7/31/2013	22:11	Well	Well	P/A	A	A				

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.

**Burrel Union School Has Levels of Coliform Bacteria
Above the Drinking Water Standard**

Our water system recently failed a drinking water standard. Although this incident 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 routinely monitor for drinking water contaminants. We took fifteen samples to test for the presence of coliform bacteria in July 2013. Two of these samples showed the presence of total coliform bacteria. The standard is that no more than one sample per month may show the presence of coliform bacteria.

What should I do?

- **You do not need to boil your water or take other corrective actions.**
- This is not an emergency. If it had been, you would have been notified immediately. Total coliform bacteria are generally not harmful themselves. *Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.*
- Usually, coliforms are a sign that there could be a problem with the treatment or distribution system (pipes). Whenever we detect coliform bacteria in any sample, we do follow-up testing to see if other bacteria of greater concern, such as fecal coliform or *E. coli*, are present. **We did not find any of these bacteria in our subsequent testing.**
- People with severely compromised immune systems, infants, and some elderly may be at increased risk. These people should seek advice about drinking water from their health care providers. General guidelines on ways to lessen the risk of infection by microbes are available from EPA's Safe Drinking Water Hotline at 1(800) 426-4791.
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor.

What happened? What is being done?

[Describe corrective action]. _____

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 Burrel Union School

Date distributed: _____.



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



EDMUND G. BROWN JR.
Governor

ATTACHMENT D

PROOF OF NOTIFICATION

(Return with copy of notice)

As required by Section 116450 of the California Health and Safety Code, I notified all users of water supplied by the **Burrel Union School** of the failure to meet the **total coliform bacteria MCL** for the month of **July 2013** as directed by the Department.

Notification was made on _____ by _____
(date)

_____ **hand delivered** and/or **mailed** and/or **posted** written notice.
(circle all that apply)

Signature of Water System Representative

Printed Name

Date

DISCLOSURE: Be advised that Section 116725 and 116730 of the California Health and Safety Code state that any person who knowingly makes any 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 separate violation for each day that violation continues. In addition, the violators may be prosecuted in criminal court and upon conviction, be punished by a fine of not more than \$25,000 for each day of violation, or be imprisoned in the county jail not to exceed one year, or by both the fine and imprisonment.

Due: November 30, 2013
Total Coliform MCL Failure: July 2013
System Number: 1000182
Citation No.: 03-23-13C-051



Do your part to help California save energy. To learn more about saving energy, visit the following web site:
<http://www.fypower.org>

Southern California Drinking Water Field Operations Branch
265 W. Bullard Avenue, Suite 101, Fresno, CA 93704
(559) 447-3300; Fax (559) 447-3304
Internet Address: <http://www.dhs.ca.gov/ps/ddwem/>

POSITIVE TOTAL COLIFORM INVESTIGATION

Simple Well with Pressure Tank Systems

Attachment E

This form is intended to assist public water systems in completing the investigation required by the California Department of Public Health (Section 64426(b) of Title 22, California Code of Regulations) and may be modified to take into account conditions unique to the system.

ADMINISTRATIVE INFORMATION

PWS Name:		PWS ID NUMBER:	
	Name	Address	Telephone #
Operator in Responsible Charge (ORC)			
Person that collected TC samples if different than ORC			
Owner			
Certified Laboratory for Microbiological Analyses			
Date Investigation Completed:			
Month(s) of Total Coliform MCL Failure:			

INVESTIGATION DETAILS

SOURCE	WELL (name)	WELL (name)	WELL (name)	WELL (name)	COMMENTS
1. Inspect each well head for physical defects and report					
a. Is raw water sample tap upstream from point of disinfection?					
b. Is wellhead vent pipe screened?					
c. Is wellhead seal watertight?					
d. Is well head located in pit or is any piping from the wellhead submerged?					
e. Does the ground surface slope towards well head?					
f. Is there evidence of standing water near the wellhead?					
g. Is there a check valve on the well discharge line? Is the check valve seating properly?					
h. Are there any connections to the raw water piping that could be cross connections? (describe all connections in comments)					
i. Is the wellhead secured to prevent unauthorized access?					
j. To what treatment plant (name) does this well pump?					
k. How often do you take a raw water total coliform (TC) test?					
l. Provide the date and result of the last TC test at this location					

POSITIVE TOTAL COLIFORM INVESTIGATION

Attachment E

DISTRIBUTION SYSTEM	SYSTEM RESPONSES
1. What is the minimum pressure you are maintaining in the distribution system?	
2. Did pressure in the distribution system drop to less than 5 psi prior to experiencing the TCR positive finding.	
3. Has the distribution system been worked on within the last week? (service taps, hydrant flushing, main breaks, main extensions, etc.) If yes, provide details.	
4. Are there any signs of excavations near your distribution system not under the direct control of your maintenance staff?	
5. Did you inspect your distribution system to check for mainline leaks? Do you or did you have a mainline leak?	
6. If there was a mainline leak, when was it repaired?	
7. On what date was the distribution system last flushed?	
8. Is there a written flushing procedure you can provide for our review?	
9. Do you have an active cross connection control program?	
10. What is name and phone number of your Cross-Connection Control Program Coordinator?	
11. Is the review and testing of backflow prevention devices current?	
12. On what date was the last physical survey of the system done to identify cross-connections?	

SAMPLE SITE EVALUATION (Complete for all TC+ or EC+ findings)	Routine Site TC+ or EC+	Upstream Site	Downstream Site	Sample 4 (specify)
1. What is the height of the sample tap above grade? (inches)				
2. Is the sample tap located in an exterior location or is it protected by an enclosure?				
3. Is the sample tap threaded, have a swing arm (kitchen sink) or aerator (sinks)?				
4. Is the sample tap in good condition, free of leaks around the stem or packing?				
5. Can the sample tap be adjusted to the point where a good laminar flow can be achieved without excessive splash?				
6. Is the sample tap and area around the sample tap clean and dry (free of animal droppings, other contaminants or spray irrigation systems)				
7. Is the area around the sample tap free of excessive vegetation or other impediments to sample collection				
8. Describe how the tap was treated in preparation for sample collection (ran water, swabbed with disinfectant, flamed, etc.)				
9. Is this sample tap designated on the sampling plan submitted with this information request?				
10. What were weather conditions at the time of positive sample (rainy, windy, sunny)?				

POSITIVE TOTAL COLIFORM INVESTIGATION

Attachment E

Page 3 of 3

GENERAL OPERATIONS:	Response
1. Where there any power outages that affected water system facilities during the 30 days prior to the TC+ or EC + findings?	
2. Where there any main breaks, water outages, or low pressure reported in the service area where TC+ or EC+ samples were located.	
3. Does the system have backup power or elevated storage?	
4. During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many?	
5. What were the symptoms of illness if you received complaints about customers being sick?	

ADDITIONAL INFORMATION TO BE SUBMITTED WITH RESPONSES TO THE ABOVE QUESTIONS

1. Sketch of System showing all sources, treatment locations, storage tanks, microbiological sampling sites and general layout of the distribution system including the location of all hazardous connections such as the wastewater treatment facility.
2. A set of photographs of the well, pressure tanks, and storage tanks in the system may be submitted if they would show that the contamination is directly related and changes have been made since the last inspection by our Department
3. Name, certification level and certificate number of the Operator in Responsible Charge.
4. Copy of the last cross connection survey performed that identifies the location of all unprotected cross connections.

SUMMARY: BASED ON THE RESULTS OF YOUR INVESTIGATION AND ANY OTHER INFORMATION AT YOUR DISPOSAL, WHAT DO YOU BELIEVE TO BE THE CAUSE OF THE POSITIVE TOTAL COLIFORM SAMPLES FROM YOUR PUBLIC WATER SYSTEM?

CERTIFICATION: I CERTIFY THAT THE INFORMATION SUBMITTED IN RESPONSE TO THE QUESTIONS ABOVE IS ACCURATE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE

NAME: _____ TITLE: _____ DATE: _____