

**CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
DIVISION OF DRINKING WATER**

**IN RE: McSWAIN SCHOOL DISTRICT**  
Water System No.: 2400079

**TO: McSWAIN SCHOOL DISTRICT**  
**ATTN: HELIO BRASIL, SUPERINTENDENT**  
926 Scott Road  
Merced, CA 95341

**Cc: Merced County Environmental Health Department**  
Westside Water Conditioning, 45 West G Street, Los Banos, CA, 93635

**CITATION FOR  
VIOLATION OF THE HEALTH AND SAFETY CODE, SECTION 116650(a), THE PRIMARY  
DRINKING WATER STANDARD FOR SIGNIFICANT RISE IN BACTERIAL COUNT,  
TITLE 22, SECTION 64426; AND THE TOTAL COLIFORM MAXIMUM CONTAMINANT  
LEVEL, TITLE 22, SECTION 64426.1**

**May and June 2015**

**Issued on July 28, 2015**

The State Water Resources Control Board (hereinafter "Board"), acting by and through its Division of Drinking Water (hereinafter "Division") and the Deputy Director for the Division (hereinafter "Deputy Director"), hereby issues this citation (hereinafter "Citation"), pursuant to Section 116650 of the California Health and Safety Code (hereinafter "CHSC") to McSwain School District Water System (hereinafter "Water System") and its owner of record

1 for violation of CHSC section 116550(a) and Title 22, California Code of Regulations  
2 (hereinafter "CCR"), Section 64426.  
3

4 **APPLICABLE AUTHORITIES**

5  
6 The applicable statutes and regulations are provided in Attachment A, attached hereto and  
7 incorporated by reference.  
8

9 **STATEMENT OF FACTS**

10 The McSwain School District Water System (hereinafter "Water System") is located in  
11 Merced County and supplies water for domestic purposes to approximately 940 students  
12 and staff through approximately 24 service connections. The Water System consists of the  
13 District offices and K through 8<sup>th</sup> grade school. The Water System is a nontransient-  
14 noncommunity public water system as defined in CHSC, section 116275.  
15

16 The Water System is required to collect a minimum of two (2) distribution system  
17 bacteriological samples per month. The bacteriological water analysis results submitted by  
18 the Water System reported the presence of total coliform bacteria in the two routine  
19 distribution system samples collected by the Water System on May 13, 2015. In addition,  
20 the routine sample collected at Site C4 in the month of May reported the presence of *E. coli*  
21 bacteria. A Tier 1 public notification was issued on May 14, 2015. After disinfection, the  
22 Water System collected five repeat distribution samples including Wells 2 and 3 samples on  
23 May 14, 2015 that were absent for total coliform bacteria. The Division rescinded the Boil  
24 Water Order on May 19, 2015. The following month, five routine samples were collected  
25 which includes Well 2 and 3 on June 17, 2015. Two (2) of the three (3) routine distribution  
26 system samples and Well No. 2 were positive for total coliform bacteria. No *E. coli* bacteria  
27 were detected. On June 19, 2015, the Water System collected five repeat distribution

1 system samples including Wells 2 and 3 samples that were absent for total coliform  
2 bacteria. The School is closed for the summer but the District office is still open to the public.  
3 In the month of July, the Water System collected five routine distribution system samples  
4 including Wells 2 and 3 samples that were absent for total coliform bacteria. All water  
5 samples for coliform bacteria collected during May through July 2015 are summarized in  
6 Attachment B.

7  
8 Public notification to the Division and consumers of a water system is required whenever  
9 there is a significant rise in bacterial count. Notification to the Division is required by the end  
10 of the business day on which the violation has been determined. If the Division is closed,  
11 notification shall be within 24 hours of the determination. The Water System notified the  
12 Division on May 14, 2015, and on June 19, 2015. The Division was notified in accordance  
13 with the above referenced section.

14  
15 Public notification (Tier 1) to the students and staff of the District was conducted on May 14,  
16 2015, advising each customer of the significant rise in bacterial count during the month of  
17 May 2015. A copy of the Tier 1 notice that was directly delivered to each customer is  
18 provided as Attachment C. Proof of notification is required. For the month of June, a Tier 2  
19 notification is required for the Water System's failure to comply with the total coliform MCL.

20  
21 The source of the contamination may have been water stagnation in the storage tank due to  
22 reduced demand for landscaping irrigation.

23  
24 The California Groundwater Rule (GWR) requires the collection of a sample for  
25 bacteriological evaluation from the well(s) serving the system in response to a coliform  
26 positive distribution sample within 24 hours of being notified of the coliform positive result.  
27

1 Based on data submitted to the Division, the Water System collected their raw water well  
2 samples from Wells 2 and 3 in a timely manner in follow up to the *E.Coli* and total coliform  
3 positive routine samples collected on May 13, 2015. Bacteriological sampling of these wells  
4 was conducted on May 14, 2015. Wells 2 and 3 did not shown presence of total coliform  
5 bacteria. On June 19, 2015, the Water System collected raw water well samples from Wells  
6 2 and 3, following a sampling event in June 17, 2015 resulting in two routine samples and  
7 Well No. 2 that are positive for total coliform bacteria.  
8

9 **DETERMINATION**

10 Based on the above Statement of Facts, the Division has determined that the Water System  
11 and its owner of record have violated CHSC, Section 116550 and Title 22, Sections 64426  
12 and 64426.1 in that the water produced by the Water System failed to comply with Total  
13 Coliform Rule (Significant Rise in Bacterial Count) for the month of May 2015 due to the  
14 presence of *E.coli* bacteria in a routine sample collected in May 13, 2015; and failed to  
15 comply with the Total Coliform MCL in June 2015 due to more than one routine sample in a  
16 month that were positive for total coliform bacteria.  
17

18 **DIRECTIVES**

19 The McSwain School District Water System and its owner of record are hereby directed to  
20 take the following actions:  
21

- 22
- 23 1. Comply with Title 22, CCR, Section 64426 and 64426.1, in all future monitoring  
24 periods.
  - 25 2. By **August 31, 2015**, the Water System shall provide Tier 2 public notification to  
26 School District and provide to the Division certification of public notification of the total  
27

1 coliform MCL violation in June 2015 using the enclosed Proof of Notification form  
2 (Attachment F). A copy of the Tier 2 public notice template is included as Attachment  
3 E.  
4

5 3. By **August 31, 2015**, the Water System shall provide to the Division certification of  
6 public notification of the significant rise in bacterial count using the enclosed Proof of  
7 Notification form (Attachment D). A copy of the Tier 1 final notice that was distributed  
8 is included as Attachment C.  
9

10 4. By **August 31, 2015**, the Water System shall install continuous chlorination treatment  
11 at Wells 2 and 3.  
12

13 5. By **August 31, 2015**, the Water System shall prepare an Operations Plan for the  
14 continuous chlorination treatment system and submit a copy to the Division for review  
15 and approval. A template to assist in preparation of the operations plan is provided in  
16 Attachment G.  
17

18 6. By **August 31, 2015**, the Water System shall complete and submit the enclosed  
19 "Positive Total Coliform Investigation" form to the Division that describes the incident  
20 and all corrective actions taken, and results of the investigation. The appropriate  
21 investigation report is provided as Attachment H.  
22

23 7. All submittals required by this Citation shall be addressed to:  
24 Kassy D. Chauhan, Senior Sanitary Engineer  
25 State Water Resources Control Board  
26 Division of Drinking Water, Merced District  
27 265 W. Bullard Ave, Suite 101  
Fresno, CA 93704

1  
2 As used in this Citation, the date of issuance shall be the date of this Citation; and the date  
3 of service shall be the date of service of this Citation, personal or by certified mail, on the  
4 Water System.

5  
6 The Division reserves the right to make such modifications to the Citation as it may deem  
7 necessary and/or to issue such further citation(s) as it may deem necessary to protect public  
8 health and safety. Such modifications may be issued as amendments to this Citation and  
9 shall be effective upon issuance.

10  
11 Nothing in this Citation relieves Water System or its owner of record of its obligation to meet  
12 the requirements of the California SDWA, or any regulation, standard, permit or order issued  
13 thereunder.

14  
15 **PARTIES BOUND**

16 This Citation shall apply to and be binding upon McSwain School District, its owners,  
17 shareholders, officers, directors, agents, employees, contractors, successors, and  
18 assignees.

19  
20 **SEVERABILITY**

21 The Directives of this Citation are severable, and McSwain School District and its owner of  
22 record shall comply with each and every provision hereof, notwithstanding the effectiveness  
23 of any other provision.

24  
25 **FURTHER ENFORCEMENT ACTION**

26 The California SDWA authorizes the Board to: issue a citation with assessment of  
27 administrative penalties to a public water system for violation or continued violation of the

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

10  
11 7-28-15

12 Date

Kassy D. Chauhan

13 Kassy D. Chauhan, P.E.  
14 Senior Sanitary Engineer, Merced District  
15 DRINKING WATER FIELD OPERATIONS BRANCH

16 Certified Mail No. 7014 3490 0001 7868 9658

17 KDC/mlm

18 Attachments:

19 Attachment A: Applicable Authorities

Attachment B: Summary of Distribution Bacteriological Samples from May to June 2015

20 Attachment C: Tier 1 Public Notice for May 2015

Attachment D: Proof of Notification Form – Tier 1

21 Attachment E: Tier 2 Public Notice for June 2015

Attachment F: Proof of Notification Form – Tier 2

22 Attachment G: Chlorination Operations Plan Template

Attachment H: Positive Total Coliform Investigation Form



## APPENDIX A

## Applicable Statutes and Regulations for Citation No. 03-11-15C-006

**Section 116650 of the CHSC states in relevant part:**

## §116650. Citations

- (a) If the Division determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the Division may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.
- (b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.
- (c) A citation may specify a date for elimination or correction of the condition constituting the violation.
- (d) A citation may include the assessment of a penalty as specified in subdivision (e).
- (e) The Division may assess a penalty in an amount not to exceed one thousand dollars (\$1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation.

**§64426. Significant Rise in Bacterial Count of Title 22, California Code of Regulations (CCR) states in relevant part:**

- (a) Any of the following criteria shall indicate a possible significant rise in bacterial count:
  - (1) A system collecting at least 40 samples per month has a total coliform-positive routine sample followed by two total coliform-positive repeat samples in the repeat sample set;
  - (2) A system has a sample which is positive for fecal coliform or E. coli; or
  - (3) A system fails the total coliform Maximum Contaminant Level (MCL) as defined in §64426.1.
- (b) When the coliform levels specified in subsection (a) are reached or exceeded, the water supplier shall:
  - (1) Contact the Department by the end of the day on which the system is notified of the test result or the system determines that it has exceeded the MCL, unless the notification or determination occurs after the Department office is closed, in which case the supplier shall notify the Department within 24 hours; and
  - (2) Submit to the Department information on the current status of physical works and operating procedures which may have caused the elevated bacteriological findings, or any information on community illness suspected of being waterborne. This shall include, but not be limited to:

- (A) Current operating procedures that are or could potentially be related to the increase in bacterial count;
  - (B) Any interruptions in the treatment process;
  - (C) System pressure loss to less than 5 psi;
  - (D) Vandalism and/or unauthorized access to facilities;
  - (E) Physical evidence indicating bacteriological contamination of facilities;
  - (F) Analytical results of any additional samples collected, including source samples;
  - (G) Community illness suspected of being waterborne; and
  - (H) Records of the investigation and any action taken.
- (c) Upon receiving notification from the Department of a significant rise in bacterial count, the water supplier shall implement the emergency notification plan required by Section 116460, Health and Safety Code.

**Section 64426.1 of Title 22, California Code of Regulations (CCR) states in relevant part:**  
 §64426.1. Total Coliform Maximum Contaminant Level (MCL).

- (a) Results of all samples collected in a calendar month pursuant to Sections 64423, 64424, and 64425 that are not invalidated by the Department or the laboratory shall be included in determining compliance with the total coliform MCL. Special purpose samples such as those listed in §64421(b) and samples collected by the water supplier during special investigations shall not be used to determine compliance with the total coliform MCL.
- (b) A public water system is in violation of the total coliform MCL when any of the following occurs:
  - (1) For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or
  - (2) For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or
  - (3) Any repeat sample is fecal coliform-positive or E. coli-positive; or
  - (4) Any repeat sample following a fecal coliform-positive or E. coli-positive routine sample is total coliform-positive.
- (c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the Department by the end of the business day on which this is determined, unless the determination occurs after the Department office is closed, in which case the supplier shall notify the Department within 24 hours of the determination. The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraphs (b)(1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraphs (b)(3) or (4), pursuant to section 64463.1.

**Section 64463.4 of Title 22, California Code of Regulations (CCR) states in relevant part:**  
 §64463.4. Tier 2 Public Notice.

- (a) A water system shall give public notice pursuant to this section if any of the following occurs:
  - (1) Any violation of the MCL, MRDL, and treatment technique requirements, except:
    - (A) Where a Tier 1 public notice is required under section 64463.1; or
    - (B) Where the Department determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;

- (2) All violations of the monitoring and testing procedure requirements in sections 64421 through 64426.1, article 3 (Primary Standards – Bacteriological Quality), for which the Department determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations;
- .....
- (b) A water system shall give the notice as soon as possible within 30 days after it learns of a violation or occurrence specified in subsection (a), except that the water system may request an extension of up to 60 days for providing the notice. This extension would be subject to the Department's written approval based on the violation or occurrence having been resolved and the Department's determination that public health and welfare would in no way be adversely affected. In addition, the water system shall:
- (1) Maintain posted notices in place for as long as the violation or occurrence continues, but in no case less than seven days;
  - (2) Repeat the notice every three months as long as the violation or occurrence continues. Subject to the Department's written approval based on its determination that public health would in no way be adversely affected, the water system may be allowed to notice less frequently but in no case less than once per year. No allowance for reduced frequency of notice shall be given in the case of a total coliform MCL violation or violation of a Chapter 17 treatment technique requirement; and
- .....
- (c) A water system shall deliver the notice, in a manner designed to reach persons served, within the required time period as follows:
- (1) Unless otherwise directed by the Department in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, community water systems shall give public notice by:
    - (A) Mail or direct delivery 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; and
    - (B) Use of one or more of the following methods to reach persons not likely to be reached by a mailing or direct delivery (renters, university students, nursing home patients, prison inmates, etc.):
      1. Publication in a local newspaper;
      2. Posting in conspicuous public places served by the water system, or on the Internet; or
      3. Delivery to community organizations.
  - (2) Unless otherwise directed by the Department in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, noncommunity water systems shall give the public notice by:
    - (A) Posting in conspicuous locations throughout the area served by the water system; and
    - (B) Using one or more of the following methods to reach persons not likely to be reached by a public posting:
      1. Publication in a local newspaper or newsletter distributed to customers;
      2. E-mail message to employees or students;
      3. Posting on the Internet or intranet; or
      4. Direct delivery to each customer.

**Section 64465. of Title 22, California Code of Regulations (CCR) states in relevant part:**  
§64465. Public Notice Content and Format.

- (a) Each public notice given pursuant to this article, except Tier 3 public notices for variances and exemptions pursuant to subsection (b), shall contain the following:
- (1) A description of the violation or occurrence, including the contaminant(s) of concern, and (as applicable) the contaminant level(s);
  - (2) The date(s) of the violation or occurrence;
  - (3) Any potential adverse health effects from the violation or occurrence, including the appropriate standard health effects language from appendices 64465-A through G;
  - (4) The population at risk, including subpopulations particularly vulnerable if exposed to the contaminant in drinking water;
  - (5) Whether alternative water supplies should be used;
  - (6) What actions consumers should take, including when they should seek medical help, if known;
  - (7) What the water system is doing to correct the violation or occurrence;
  - (8) When the water system expects to return to compliance or resolve the occurrence;
  - (9) The name, business address, and phone number of the water system owner, operator, or designee of the water system as a source of additional information concerning the public notice;
  - (10) A statement to encourage the public notice recipient to distribute the public notice to other persons served, using the following standard language: "Please share this information with all the other people who drink this water, especially those who may not have received this public 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"; and
  - (11) For a water system with a monitoring and testing procedure violation, this language shall be included: "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 your drinking water meets health standards. During [compliance period dates], we [did not monitor or test' or 'did not complete all monitoring or testing'] for [contaminant(s)], and therefore, cannot be sure of the quality of your drinking water during that time."

.....

- (c) Each public notice given pursuant to this article shall contain information in Spanish regarding the importance of the notice, or 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. For each non-English speaking group other than Spanish-speaking that exceeds 1,000 residents or 10% of the residents in the community served, whichever is less, the public notice shall:
- (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.
- (d) Each public notice given pursuant to this article shall:

- (1) Be displayed such that it catches people's attention when printed or posted and be formatted in such a way that the message in the public notice can be understood at the eighth-grade level;
- (2) Not contain technical language beyond an eighth-grade level or print smaller than 12 point; and
- (3) Not contain language that minimizes or contradicts the information being given in the public notice.

*Ground Water Rule*

**Section 64430. of Title 22, California Code of Regulations (CCR) states in relevant part: §64430. Requirements.**

A public water system that uses ground water shall comply with the following provisions of 40 Code of Federal Regulations as they appear in the Ground Water Rule published in 71 Federal Register 65574 (November 8, 2006) and amended in 71 Federal Register 67427 (November 21, 2006) and 74 Federal Register 30953 (June 29, 2009), which are hereby incorporated by reference: Sections 141.21(d)(3), 141.28(a), 141.153(h)(6), Appendix A to Subpart O (Consumer Confidence Reports), 141.202(a)(8), 141.203(a)(4), Appendices A and B to Subpart Q (Public Notification), and 141.400 through 141.405, except that in:

- (a) sections 141.402(a)(1)(ii), (a)(2), (a)(2)(ii), (a)(4), (a)(4)(ii)(A), (a)(5)(i), and (a)(5)(ii), the phrase —§141.21(a) is replaced by —22 California Code of Regulations sections 64422 and 64423, and
- (b) sections 141.402(a)(1)(ii) and 141.405(b)(4), the phrase —§141.21(c) is replaced by —22 California Code of Regulations section 64425, and
- (c) section 141.402(a)(2)(iii), the phrase —§141.21(b) is replaced by —22 California Code of Regulations section 64424.

*[Note: The text reflecting this section is provided in Addendum A of this book.]*

*Addendum A*

**§141.402. Ground water source microbial monitoring and analytical methods.**

**(a) Triggered source water monitoring —**

- (1) *General requirements.* A ground water system must conduct triggered source water monitoring if the conditions identified in paragraphs (a)(1)(i) and (a)(1)(ii) of this section exist.
  - (i) The system does not provide at least 4-log treatment of viruses (using inactivation, removal, or a State-approved combination of 4-log virus inactivation and removal) before or at the first customer for each ground water source; and
  - (ii) The system is notified that a sample collected under 22 California Code of Regulations sections 64422 and 64423 is total coliform-positive and the sample is not invalidated under 22 California Code of Regulations section 64425.
- (2) *Sampling requirements.* A ground water system must collect, within 24 hours of notification of the total coliform-positive sample, at least one ground water source sample from each ground water source in use at the time the total coliform-positive sample was collected under 22 California Code of Regulations sections 64422 and 64423, except as provided in paragraph (a)(2)(ii) of this section.
  - (i) The State may extend the 24-hour time limit on a case-by-case basis if the system cannot collect the ground water source water sample within 24 hours due to circumstances beyond its control. In the case of an extension, the State must specify how much time the system has to collect the sample.
  - (ii) If approved by the State, systems with more than one ground water source may meet the requirements of this paragraph (a)(2) by sampling a representative

ground water source or sources. If directed by the State, systems must submit for State approval a triggered source water monitoring plan that identifies one or more ground water sources that are representative of each monitoring site in the system's sample siting plan under 22 California Code of Regulations sections 64422 and 64423 and that the system intends to use for representative sampling under this paragraph.

(iii) A ground water system serving 1,000 people or fewer may use a repeat sample collected from a ground water source to meet both the requirements of 22 California Code of Regulations section 64424 and to satisfy the monitoring requirements of paragraph (a)(2) of this section for that ground water source only if the State approves the use of *E. coli* as a fecal indicator for source water monitoring under this paragraph (a). If the repeat sample collected from the ground water source is *E. coli* positive, the system must comply with paragraph (a)(3) of this section.

(3) *Additional requirements.* If the State does not require corrective action under §141.403(a)(2) for a fecal indicator-positive source water sample collected under paragraph (a)(2) of this section that is not invalidated under paragraph (d) of this section, the system must collect five additional source water samples from the same source within 24 hours of being notified of the fecal indicator-positive sample.

(4) *Consecutive and wholesale systems —*

(i) In addition to the other requirements of this paragraph (a), a consecutive ground water system that has a total coliform-positive sample collected under 22 California Code of Regulations sections 64422 and 64423 must notify the wholesale system(s) within 24 hours of being notified of the total coliform-positive sample.

(ii) In addition to the other requirements of this paragraph (a), a wholesale ground water system must comply with paragraphs (a)(4)(ii)(A) and (a)(4)(ii)(B) of this section.

(A) A wholesale ground water system that receives notice from a consecutive system it serves that a sample collected under 22 California Code of Regulations sections 64422 and 64423 is total coliform-positive must, within 24 hours of being notified, collect a sample from its ground water source(s) under paragraph (a)(2) of this section and analyze it for a fecal indicator under paragraph (c) of this section.

(B) If the sample collected under paragraph (a)(4)(ii)(A) of this section is fecal indicator-positive, the wholesale ground water system must notify all consecutive systems served by that ground water source of the fecal indicator source water positive within 24 hours of being notified of the ground water source sample monitoring result and must meet the requirements of paragraph (a)(3) of this section.

(5) *Exceptions to the triggered source water monitoring requirements.* A ground water system is not required to comply with the source water monitoring requirements of paragraph (a) of this section if either of the following conditions exists:

(i) The State determines, and documents in writing, that the total coliform-positive sample collected under 22 California Code of Regulations sections 64422 and 64423 is caused by a distribution system deficiency; or

(ii) The total coliform-positive sample collected under 22 California Code of Regulations sections 64422 and 64423 is collected at a location that meets State criteria for distribution system conditions that will cause total coliform-positive samples.

## Bacteriological Distribution Monitoring Report

**2400079 MCSWAIN ELEMENTARY SCHOOL** *Distribution System Freq: 2/M*

Sample Date	Location	T Coli	E Coli	F Coli	HPC	Type	Cl2	Violation	Comment
5/13/2015	Rm 8	>23.0	<1.1			Routine			
5/13/2015	Site C4	>23.0	1.1			Routine		MCL	
5/14/2015	5 samples:Rm 8, Rm 17, WC A2, WC C4, storage tank	<1.1	A			Repeat			
5/14/2015	Wells: 2, 3	<1.1	A			Source R			
5/18/2015	2 samples: WC C4 & Rm 17	A	A			Other			
6/17/2015	MC Rm 17	1.1	<1.1			Routine			
6/17/2015	MC Rm 8	16.1	<1.1			Routine			
6/17/2015	WC C4, WC A2	<1.1	<1.1			Routine			
6/17/2015	Well 2	16.1	<1.1			Routine			
6/17/2015	Well 3	<1.1	<1.1			Routine			
6/19/2015	Sites: MC Rm 8, MC Rm 17, WC A2, WC C4	<1.1	<1.1			Repeat			
6/19/2015	Wells 2 & 3	<1.1	<1.1			Source R			
7/8/2015	Sites: MC Rm 8, MC Rm 17, WC A2, WC C4	<1.1	A			Routine			
7/8/2015	Wells 2 & 3	<1.1	A			Routine			

### Violation Key

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

Date: May 14, 2015

**UNSAFE WATER ALERT****McSwain Elementary School water is possibly contaminated  
with Fecal Bacteria****DO NOT DRINK YOUR WATER**  
**Failure to follow this advisory could result in illness.**

Due to the recent event, the State Water Resources Control Board, Division of Drinking Water in conjunction with the McSwain Elementary School Water System is advising students and faculty of McSwain Elementary School NOT USE THE TAP WATER FOR DRINKING AND COOKING UNTIL FURTHER NOTICE.

**What should I do?**

- **DO NOT DRINK YOUR TAP WATER---USE BOTTLED WATER.** Bottled water should be used for all drinking washing dishes, making ice and food preparation **until further notice.**
- **DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST.** Bring all water to a boil, **let it boil for one (1) minute**, and let it cool before using, or use bottled water. Boiled or bottled water should be used for drinking and food preparation **until further notice.** Boiling kills bacteria and other organisms in the water.

**We will inform you when tests show that the water is safe again. We expect to resolve the problem within [estimated time frame].**

**Failure to follow this advisory could result in illness.**

Current testing indicates the presence of fecal coliform bacteria. The water system will be conducting water system disinfection and making any other corrections necessary. The water will be tested again and the water system will notify users as soon as the water is safe to drink.

For more information call:

Water Utility contact: Stan Mollart, Superintendent, 209-354-2711, 926 Scott Rd Merced, CA 95341

State Water Resources Control Board at: Merced District Office, Kassy Chauhan (559) 447-3300.

This notice is being sent to you by McSwain Elementary School. California Public Water System ID # 2400079. Date Distributed: May 14, 2015.

*Please share this information with all other people who receive this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies by hand.*

## Certification of Completion of Public Notification

This form, when completed and returned to the Division of Drinking Water – Merced District (265 W. Bullard Ave. #101, Fresno, CA 93704 or fax to 559-447-3304), serves as certification that public notification to water users was completed as required by Title 22, California Code of Regulations, Sections 64463-64465.

**Public Water System Name:** \_\_\_\_\_

**Public Water System No.:** \_\_\_\_\_

Public notification for **significant rise in bacterial county for the month of June 2015** was performed by the following method(s) (check and complete those that apply):

The notice was mailed to users on: \_\_\_\_\_  
A copy of the notice is attached.

The notice was hand delivered to water customers on: \_\_\_\_\_  
A copy of the notice is attached.

The notice was published in the local newspaper on: \_\_\_\_\_  
A copy of the newspaper notice is attached.

The notice was published in conspicuous places on: \_\_\_\_\_  
A copy of the notice is attached.  
A list of locations the notice was posted is attached.

The notice was delivered to community organizations on: \_\_\_\_\_  
A copy of the notice is attached.  
A list of community organizations the notice was delivered to is attached.

I hereby certify that the above information is factual.

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
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 each day that the 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 to the Division of Drinking Water within 10 days of issuance of notice to customers  
System Number: 2400079  
Enforcement Action No. 03-11-15C-006

## 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.

### The McSwain School District Has Levels of Coliform Bacteria Above the Drinking Water Standard

Our water system recently violated a drinking water standard. Although this is 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 \_\_ samples to test for the presence of coliform bacteria during June 2015. Three of our samples showed the presence of total coliform bacteria. The standard is that no more than one sample per month may do so.

#### 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 system's 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, and further testing shows that this problem has been resolved.**
- 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 U.S. 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 was done?**

Due to the presence of total coliform, the entire distribution system was disinfected with chlorine and flushed. Further testing showed no coliform were present.

For more information, please contact \_\_\_\_\_ at phone \_\_\_\_\_

*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 the McSwain School District.

State Water System ID#: 2400079. Date distributed: \_\_\_\_\_.

## Certification of Completion of Public Notification

This form, when completed and returned to the Division of Drinking Water – Merced District (265 W. Bullard Ave. #101, Fresno, CA 93704 or fax to 559-447-3304), serves as certification that public notification to water users was completed as required by Title 22, California Code of Regulations, Sections 64463-64465.

**Public Water System Name:** \_\_\_\_\_

**Public Water System No.:** \_\_\_\_\_

Public notification for **total coliform MCL for the month of June 2015** was performed by the following method(s) (check and complete those that apply):

The notice was mailed to users on: \_\_\_\_\_  
A copy of the notice is attached.

The notice was hand delivered to water customers on: \_\_\_\_\_  
A copy of the notice is attached.

The notice was published in the local newspaper on: \_\_\_\_\_  
A copy of the newspaper notice is attached.

The notice was published in conspicuous places on: \_\_\_\_\_  
A copy of the notice is attached.  
A list of locations the notice was posted is attached.

The notice was delivered to community organizations on: \_\_\_\_\_  
A copy of the notice is attached.  
A list of community organizations the notice was delivered to is attached.

I hereby certify that the above information is factual.

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
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 each day that the 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 to the Division of Drinking Water within 10 days of issuance of notice to customers  
System Number: 2400079  
Enforcement Action No. 03-11-15C-006

## GUIDANCE: OPERATIONS PLAN FOR SMALL SYSTEMS with Chlorination

RE: For small water systems with a well, storage tank, chlorinator and distribution system. Operated by owner or manager.

- Brief description of source, storage, chlorinator unit (treatment) and number of connections. Example; 200 foot well drilled in 1972, 1500 gallon welded steel storage tank, chlorinator with a diaphragm type pump (manufacturer and model) and 25 gallon disinfectant reservoir, serving 15 connections.
  
- Routine Operational Procedures for each component of the system:
  - A. Visual inspection of **WELL** (daily).
    1. Check for the following; leaks, openings, lubricants, electrical hazards, chemical hazards, etc. (record observations and correct problem).
    2. Check the pump for proper operation.
  
  - B. Visual inspection of the **STORAGE TANKS** (daily).
    1. Inspect for any leaks or damage (record observations and repair as needed).
    2. Record system pressure. Record the pressure the pump turns on, the pressure the pump turns off and the duration of the run time.
    3. Cleaning of storage tank (quarterly, semi-annually or annually). Record date cleaned and observations.
  
  - C. Visual inspection of **CHLORINATOR PUMP** and disinfection reservoir (daily).
    1. Inspect the pump for proper operation.
    2. Inspect the disinfectant in the reservoir for concentration and adequate volume for the operational period (record results).
    3. Determine if there is enough disinfectant on hand for one or more weeks.
  
  - D. Measure the **DISINFECTANT RESIDUAL** in the distribution system (free chlorine test kit required).
    1. Record the results (daily, on attached sheet).
    2. Determine if an adequate level of disinfectant is maintained.
      - a. If disinfectant level is low, determine the reason and correct.
      - b. If no measurable disinfectant, notify owner, determine reason, and remedy. If no disinfectant for 24 hours, notify Department.
  
  - E. Maintenance of **GAUGES and METERS**.
    1. Inspect all gauges and meters for leaks and proper function daily. Repair or replace as needed (keep record of date).

- F. Inspection and **EXERCISING of the VALVES.**
  1. Inspect valves for leaks (record observations, repair or replace if leaking).
  2. Exercise valves on a schedule, as needed (i.e. quarterly, semi-annually, annually, record dates on attached sheet).
  
- G. Operation and maintenance of **DISTRIBUTION FACILITIES.**
  1. Visually inspect the distribution system for leaks on a regular basis. Record date and observations.
  2. Flush dead end mains or lines periodically (quarterly, semi-annually, annually as needed. Record date and observations).
  
- Monitoring and Reporting.
  - A. **BACTERIOLOGICAL MONITORING;** As per approved Sample Siting Plan (attached), required monthly, report to the Department by the 10<sup>th</sup> of each month, following the sample.
    1. If sample positive, notify Department and take four repeat samples.
    2. Take five routine samples the month following a positive sample.
  
  - B. **CHEMICAL MONITORING;** as required by the Department, forward results to the Department.
    1. Keep chemical results for ten years.
    2. Keep variance and exemptions for five years.
  
- Response to violations.
  - A. **PUBLIC NOTIFICATION** of violation required.
    1. Notification shall be given as per "Emergency public notification" method on record with the Department (attached), or in a manor directed by the Department.
    2. State problem and what has been done to correct it.
    3. Send a copy of the notification to the Department.
  
- Consumer complaint response procedures.
  - A. **CONSUMER COMPLAINT** procedures.
    1. Record in complaint log (name, address and nature of the problem).
    2. Investigate the complaint.
    3. Verify or dismiss the complaint.
    4. Record the steps taken to address or correct the problem.
    5. Notify complainant of action taken.
    6. Keep complaint records with corrective action for five years.
  
- **Emergency Operational Practices.** (*See Emergency/Disaster Plan for complete description*).
  - A. List of **equipment on hand** for emergency repairs.
    1. Miscellaneous wrenches.
    2. Leak clamps.
  
  - B. List of sources of needed **equipment, not on hand.**
    1. Name and address of supplier and type of equipment.

2. If under contract or rental.

Name	Address	Phone #	Equipment	Rental/ Contract
			Steel Tank Welder	
			Electrical repair	
			Digging equipment	
			Generator	
			Chemicals	

C. List of distributors or suppliers of **replacement parts** for the system.

1. Name and address of supplier and type of equipment.

Name	Address	Phone #	Equipment
			PVC pipe, valves, and fittings
			pumps, pressure tank and gauges
			Chlorinator

D. List of **emergency contact numbers**:

	Name	Phone #
1.	Health Department or DHS District Office	
2.	Law Enforcement -	
3.	Electrician	
4.	Laboratory	
5.	Pump repair service	
6.	Chemical disinfectant supplier	
7.	Equipment supplier	
8.	Owner	

(Attachments)

**POSITIVE TOTAL COLIFORM INVESTIGATION**

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**

<b>PWS Name:</b>		<b>PWSID NUMBER:</b>	
Name		Address	
Operator in Responsible Charge (ORC)		Telephone #	
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. Are there any connections to the raw water piping that could be cross-connections? (describe all connections in comments)					
h. Is the wellhead secured to prevent unauthorized access?					
i. To what treatment plant (name) does this well pump?					
j. How often do you take a raw water total coliform (TC) test?					
k. Provide the date and result of the last TC test at this location					

**TREATMENT**

TREATMENT	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	COMMENTS
1. If you provide continuous chlorination treatment, was there any equipment failure? Did the distribution system maintain a chlorine residual?					
a. Was emergency chlorination initiated?					
b. If yes, for how long?					

# POSITIVE TOTAL COLIFORM INVESTIGATION

TREATMENT	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	COMMENTS
2. Did the distribution system lose chlorine residual?						
3. If you do not provide routine chlorination, was emergency chlorination initiated? If Yes, when?						
4. Inspect each point where disinfectant is added and report a. For hypochlorinator systems						
1. Is the disinfectant feed pump feeding disinfectant?						
2. What is the feed rate of disinfectant in ml/minute						
3. What is the concentration of the disinfectant solution being fed? (percent, or mg/l of chlorine as HOCl)						
4. By what method was the concentration of solution determined? (ex: measured, manufacturer's literature)						
5. What is the age (days) of the disinfectant solution currently being used at this treatment location?						
6. What is the raw water flow rate at the point where disinfectant is added in gallons per minute?						
7. What is the <b>total</b> chlorine residual measured immediately downstream from the point of application?						
8. What is the <b>free</b> chlorine residual measured immediately downstream from the point of application?						
9. What is the contact time in minutes from the point of disinfectant application to the first customer?						

STORAGE	TANK (name)	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
1. Is each tank locked to prevent unauthorized access?						
2. Are all vents of each tank screened down-turned to prevent dust and dirt from entering the tank?						
3. Is the overflow on each tank screened?						
4. Are there any unsealed openings in the tank such as access doors, water level indicators hatches, etc.?						
5. Is the roof/cover of the tank sealed and free of any leaks?						
6. Is the tank above ground or buried. a. If buried or partially buried, are there provisions to direct surface water away from the site. b. Has the interior of the tank been inspected to identify any sanitary defects, such as root intrusion?						
8. Does the tank "float" on the distribution system or are there separate inlet and outlet						

# POSITIVE TOTAL COLIFORM INVESTIGATION

STORAGE	TANK (name)	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
lines?						
9. What is the <b>measured</b> chlorine residual (total/free) of the water exiting the storage tank <b>today</b> ?						
10. What is the volume of the storage tank in gallons?						
11. Is the tank baffled?						
12. Prior to the TC+ or EC+, what was the previous date item #1-7 were checked and documented?						

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?	

## BOOSTER STATION

1. Do you have a booster pump? How many?
2. Do you have a standby booster pump if the main pump fails?
3. Prior to bacteriological quality problems, did your booster pump fail?
4. Do you notice standing water, leakage at the booster station?

# POSITIVE TOTAL COLIFORM INVESTIGATION

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 <u>exterior</u> location or is it protected by an <u>enclosure</u> ?				
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 the weather conditions at the time of the positive sample (rainy, windy, sunny),				

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?	

# POSITIVE TOTAL COLIFORM INVESTIGATION

Page 5 of 5

## 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: \_\_\_\_\_