



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



RON CHAPMAN, MD, MPH
Director & State Health Officer

EDMUND G. BROWN JR.
Governor

May 30, 2013

Stacey Roberts
Water Quality Engineer
Golden State Water Company
Morongo Del Sur System
13608 Hitt Road
Apple Valley, CA 92308

CITATION NO. 05-13-13C-005
GOLDEN STATE WATER COMPANY - MORONGO DEL SUR (SYSTEM NO. 3610063)

Dear Ms. Roberts:

The Department of Public Health (Department) hereby issues a citation to the Golden State Water Company – Morongo Del Sur (Company) for the following violation:

- Title 22, California Code of Regulations (CCR), Section 64426.1(b)(2). Specifically, the Company failed to meet the Primary Drinking Water Standards for bacteriological quality in the month of February 2013. A public water system which collects fewer than 40 samples per month is in violation of the Total Coliform Maximum Contaminant Level (MCL) when more than one (1) sample collected during a single month is total coliform-positive.

If you have any questions regarding this letter, please contact Esther Brewer at (909) 383-5468.

Sincerely,

Sean F. McCarthy, P.E.
Senior Sanitary Engineer
South Coast Section
CDHS - Drinking Water Field Operations Branch

Enclosure: Citation No. 05-13-13C-005

ENCLOSURE

CITATION NO. 05-13-13C-005

STATE OF CALIFORNIA

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

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IN RE: Golden State Water Company
Morongo Del Sur System
13608 Hitt Road
Apple Valley, CA 92308

TO: Stacey Roberts
Water Quality Engineer

CITATION FOR NONCOMPLIANCE – WATER SYSTEM NO. 3610063

CITATION NO. 05-13-13C-005

Issued on May 30, 2013

Section 116650, Article 9, Chapter 4, Part 12, Division 104 of the California Health and Safety Code (H & S Code), authorizes the issuance of a citation for failure to comply with the requirements of Chapter 4 (California Safe Drinking Water Act), or any regulation, standard, permit or order issued thereunder.

California Department of Public Health, Division of Drinking Water (hereinafter Department), hereby issues a citation to the Golden State Water Company – Morongo Del Sur System (hereinafter Company) (mailing address: 13608 Hitt Road, Apple Valley, CA 92308) for the following violations:

1. Title 22, California Code of Regulations (CCR), Section 64426.1(b)(2). Specifically, the Company failed to meet the Primary Drinking Water Standards for bacteriological quality in the month of February 2013. A public water system which collects fewer than 40 samples per month is in violation of the Total Coliform Maximum Contaminant Level (MCL) when more than one (1) sample collected during a single month is total coliform-positive.



1 In the month of February 2013, two of the Company's routine distribution system
2 sampling sites had a presence of total coliform, but were absent of *E.coli*.
3 (Attachment No. 1)

4
5 In accordance with Section 116650 of the H & S Code, the above violation is
6 classified as a non-continuing violation.

7
8 **HISTORY**

9
10 The Golden State Water Company – Morongo Del Sur System (Company) is a
11 community water system supplying water for domestic purposes to approximately
12 2604 persons through 789 service connections within its boundary. The Company
13 serves only a portion of the Morongo Valley in San Bernardino. The Company
14 obtains its domestic water supply from groundwater obtained from two active wells
15 (Yeager Wells No. 2 and 3), and has four storage tanks. All of the extracted
16 groundwater is treated by chlorination with 12.5% sodium hypochlorite solution at
17 the wellhead prior to delivery to the distribution system. The Company is currently
18 operating by authority of Domestic Water Permit No. 03-13-97P-001, issued by the
19 Department on April 15, 1997.

20
21 The Company currently collects five routine bacteriological samples per week from
22 the distribution system, in accordance with the revised Coliform Sample Siting Plan
23 submitted in November 2010.

24
25 On February 19, 2013, the Company collected five routine distribution system
26 samples for bacteriological analysis. One of the samples collected was total
27 coliform-positive, but absent of *E.coli*. The affected location was at Mojave & Hill NE



1 Corner (MDS-5). The lab report indicates that the contaminated site had a
2 disinfectant residual level of 1.0 mg/L of total chlorine.

3
4 The Company collected a set of repeat samples, and conducted triggered source
5 monitoring at Yeager Well No. 2, in accordance with the Ground Water Rule (GWR),
6 within 24 hours of being notified by the lab. All samples were absent of total coliform
7 and *E.coli* bacteria.

8
9 On February 26, 2013, the Company collected five routine distribution system
10 samples for bacteriological analysis. The Company was notified by the lab on
11 February 27, 2013 that one of the samples collected was positive for total coliform
12 and *E.coli*. The affected location was 49925 29 Palms Highway (MDS-1). The
13 Company notified the Department of the MCL exceedance on February 27, 2013,

14
15 On February 28, 2013, a repeat sample set was collected from the distribution
16 system, and one sample collected from Yeager Well No. 2, per GWR. All follow-up
17 samples tested negative for total coliform and *E.coli*.

18
19 On March 20, 2013, the Company provided a Tier 2 public notice to its customers by
20 mail, and placed a copy on the notice on their website at www.gswater.com.
21 (Attachment No. 2)

22
23 On April 8, 2013, the Company provided to the Department, the Positive Total
24 Coliform Investigation report, which included a map of the system, and a detailed
25 summary of events. The Company concluded the source of contamination to be
26 undetermined. (Attachment No. 3)

27



1 **DIRECTIVES:**

2

3 The Company is hereby directed to take the following action:

4

5 1. The Company shall notify it's consumers of the bacteriological water quality
6 failure in conformance with Section [64426.1(b)(2)], Title 22, CCR.

7

8 • A Tier 2 public notice shall be issued by mail or direct delivery. The
9 content of the notice shall be approved by the Department prior to
10 issuance.

11

12 • Within 15 days of issuance of this citation, the Company shall submit a
13 copy of the notice and a certification that all the public notice requirements
14 have been met pursuant to Section [64469(d)] Title 22, CCR. (Attachment
15 No. 4)

16

17 2. Submit to the Department the Positive Total Coliform Investigation form, in
18 accordance with Section [64426 (b)] of Title 22, CCR.

19

(COMPLIED ON APRIL 8, 2013)

20

21 All submittals required by this citation shall be sent to:

22

23 Sean F. McCarthy, P.E.
24 Senior Sanitary Engineer
25 Department of Public Health
26 Drinking Water Field Operations Branch
27 464 W. 4th Street, Suite 437
San Bernardino, CA 92401



1 **CIVIL PENALTIES**

2

3 Section 116650 (d) and (e) of the H&S Code allow for the assessment of a civil
4 penalty for failure to comply with requirements of the Safe Drinking Water Act.
5 Failure to comply with any provision in this citation will result in the Department
6 imposing an administrative penalty of up to \$25.00 (twenty-five dollars) per day as of
7 the date of violation of any provision of this citation.

8

9

10 May 30, 2013
11 Date

11 Sean F. McCarthy
12 Sean F. McCarthy, P.E.
13 Senior Sanitary Engineer
14 San Bernardino District

12

13 Attachments (4)

14

15

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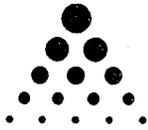
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Attachment No. 1

MONTHLY COLIFORM SUMMARY
AND
BACTERIOLOGICAL LAB RESULTS FOR
FEBRUARY 2013



Golden State
Water Company
A Subsidiary of American States Water Company

March 8, 2013

Mr. Sean McCarthy, P.E.
District Engineer
California Dept. of Public Health
Division of Drinking Water, Field Operations Branch
464 W. 4th Street, Suite # 437
San Bernardino, CA 92401-1407

Dear Mr. McCarthy:

Attached please find copies of the Monthly Coliform Reports and Monthly Filter Monitoring Reports for the following systems under your jurisdiction:

APPLE VALLEY NORTH SYSTEM No. 3610105
APPLE VALLEY SOUTH SYSTEM No. 3610107
BARSTOW SYSTEM No. 3610043
LUCERNE SYSTEM No. 3610108
MORONGO DEL SUR SYSTEM No. 3610063
WRIGHTWOOD SYSTEM No. 3610047

MAR 17 2013

The Morongo Del Sur system exceeded the monthly allowance of no more than one positive sample for Total Coliform during the month of February. Copies of the laboratory results are attached, and an investigative report will be sent under separate cover. I would like to thank Jay Das for his assistance during this event. His concern and consideration for our Company and customers was most appreciated.

All other bacteriological samples collected were in compliance with the Total Coliform Rule. The Crooks filter plant was out of service during the month of February.

Should you have any questions, I can be reached at (909) 592-4271, ext. 106, or by mobile phone at (909) 615-1267.

Sincerely,

Stacey Roberts, REHS
Water Quality Engineer
Mountain-Desert District

c: GSWC File

Mountain / Desert District
13608 Hitt Road, Apple Valley, CA 92308
Tel: (760) 247-3391

MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING (including triggered source monitoring for systems subject to the Groundwater Rule)

System Name Golden State Water Company -- Morongo del Sur	System Number 3610063
Sampling Period February	Year 2013

	Number Required	Number Collected	Number Total Coliform Positives	Number Fecal/ E.coli Positives
1. Routine Samples (see note 1)	<u>20</u>	<u>20</u>	<u>2</u>	<u>1</u>
2. Repeat Samples following Samples that are Total Coliform Positive and Fecal/E.coli <i>Negative</i> (see notes 5 and 6)		<u>3</u>	<u>0</u>	0
3. Repeat Samples following Routine Samples that are Total Coliform <i>Positive</i> and Fecal/E.coli Positive (see notes 5 and 6)		<u>3</u>	0	0
4. MCL Computation for Total Coliform Positive Samples				
a. Totals (sum of columns)		<u>26</u>	<u>2</u>	
b. If 40 or more samples collected in month, determine percent of samples that are total coliform positive [(total number positive/total number collected) x 100] =	<u>n/a</u>	%		
c. Is system in compliance... with fecal/E. coli MCL? (see notes 2 and 3)	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No	
...with monthly MCL? (see note 4)	<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No	
5. Source Samples Triggered by Routine Samples that are Total Coliform Positive (This applies only to systems subject to the Groundwater Rule - see notes 7 and 8)		<u>2</u>	<u>0</u>	0
6. Invalidated Samples (Note what samples, if any, were invalidated; who authorized the invalidation; and when replacement samples were collected. Attach additional sheets, if necessary.)				

7. Summary Completed By:

Signature Stacey Roberts	Title Water Quality Engineer	Date 3/8/13
------------------------------------	--	-----------------------

NOTES AND INSTRUCTIONS:

1. Routine samples include:
 - a. Samples required pursuant to 22 CCR Section 64423 and any additional samples required by an approved routine sample siting plan established pursuant to 22 CCR Section 64422.
 - b. Extra samples are required for systems collecting less than five routine samples per month that had one or more total coliform positives in previous month;
 - c. Extra samples for systems with high source water turbidities that are using surface water or groundwater under direct influence of surface water and do not practice filtration in compliance with regulations;
2. Note: For a repeat sample following a total coliform positive sample, any fecal/*E.coli* positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Department** (22, CCR, Section 64426.1).
3. Note: For repeat sample following a fecal/*E.coli* positive sample, any total coliform positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Department** (22, CCR, Section 64426.1).
4. Total coliform MCL (Notify Department within 24 hours of MCL violation):
 - a. For systems collecting less than 40 samples, if two or more samples are total coliform positive, then the MCL is violated.
 - b. For systems collecting 40 or more samples, if more than 5.0 percent of samples collected are total coliform positive, then the MCL is violated.
5. Positive results and their associated repeat samples are to be tracked on the Coliform Monitoring Worksheet.
6. Repeat samples must be collected within 24 hours of being notified of the positive results. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. For systems collecting one or fewer routine samples per month, four repeat samples must be collected for each total coliform positive sample.
7. For systems subject to the Groundwater Rule: Positive results and the associated triggered source samples are to be tracked on the Coliform Monitoring Worksheet.
8. For triggered sample(s) required as a result of a total coliform routine positive sample, an *E.coli*, enterococci, or coliphage positive triggered sample (boxed entry) **requires immediate notification to the Department, Tier 1 public notification, and corrective action.**

CA ELAP #2706

Prepared For: Golden State Water Company
13608 Hitt Road
Apple Valley, California 92308
Jeff Long

Coliform Bacteria/Heterotrophic Plate Count Report

Project: Distribution (Morongo Del Sur)

Sampled: 02/19/2013
Received By: Jeff Long
Received: 02/19/2013
Issued: 03/06/2013

Laboratory ID	Client ID	Matrix	Time Sampled	Time Received	9223B Batch ID	Total Coliform (P/A)	E.Coli (P/A)	9215 Batch ID	Plate Count	R2A Plate Count	Free Chlorine	Total Chlorine (mg/L)	pH	Temp (C)	General Physical			Data
															Color	Odor	Turbidity	
440-38596-1	49925 29 Palms Highway (MDS-1)	Drinking Water	09:36	17:05	86572	A	A					1.94		22.1				
440-38596-2	10197 Pinon Dr. (Pinon Tank) (MDS-2)	Drinking Water	08:55	17:05	86572	A	A					1.84		12.1				
440-38596-3	Mojave Tank (MDS-3)	Drinking Water	08:35	17:05	86572	A	A					1.72		21.0	ND	ND	ND	
440-38596-4	Juniper & Senills (MDS-4)	Drinking Water	08:20	17:05	86572	A	A					1.75		19.0				
440-38596-5	Mojave & Hill NE Cor. (MDS-5)	Drinking Water	09:10	17:05	86572	P	A					1.00		16.5				

QC Batch Data:

Method
Coliforms, Total, and E.Coli (Presence/Absence)

Data Qualifiers and Definitions:

Qualifier **Definition**

Batch ID 86572
Start Date 02/19/2013 19:00
End Date 02/20/2013 11:50

TestAmerica Irvine



Unvashi Patel

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All analyses for Total Residual Chlorine, pH, and Temperature were not performed by TestAmerica Laboratories, Inc., but performed in the field by the sampler whose name appears on the attached Chain of Custody form. This Laboratory Report is confidential and is intended for the sole use of TestAmerica Laboratories, Inc. and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica Laboratories, Inc.. All analyses met method criteria, except as noted with data qualifiers. This entire report was reviewed and approved for release.

Client Sample Results

Client: Golden State Water Company
Project/Site: Distribution (Morongo Del Sur)

TestAmerica Job ID: 440-38596-1

Client Sample ID: 49925 29 Palms Highway (MDS-1)

Lab Sample ID: 440-38596-1

Date Collected: 02/19/13 09:36

Matrix: Drinking Water

Date Received: 02/19/13 17:05

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/19/13 19:00	1
Escherichia coli	absent				NONE			02/19/13 19:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	22.1				Celsius			02/19/13 09:36	1
Chlorine, Total Residual	1.94				mg/L			02/19/13 09:36	1

Client Sample ID: 10197 Pinon Dr. (Pinon Tank) (MDS-2)

Lab Sample ID: 440-38596-2

Date Collected: 02/19/13 08:55

Matrix: Drinking Water

Date Received: 02/19/13 17:05

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/19/13 19:00	1
Escherichia coli	absent				NONE			02/19/13 19:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	12.1				Celsius			02/19/13 08:55	1
Chlorine, Total Residual	1.84				mg/L			02/19/13 08:55	1

Client Sample ID: Mojave Tank (MDS-3)

Lab Sample ID: 440-38596-3

Date Collected: 02/19/13 08:35

Matrix: Drinking Water

Date Received: 02/19/13 17:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Odor	ND		1.0		T.O.N.			02/20/13 13:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		1.0		Color Units			02/20/13 09:37	1
Turbidity	ND		0.10		NTU			02/20/13 19:14	1

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/19/13 19:00	1
Escherichia coli	absent				NONE			02/19/13 19:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	21.0				Celsius			02/19/13 08:35	1
Chlorine, Total Residual	1.72				mg/L			02/19/13 08:35	1

Client Sample ID: Juniper & Senilis (MDS-4)

Lab Sample ID: 440-38596-4

Date Collected: 02/19/13 08:20

Matrix: Drinking Water

Date Received: 02/19/13 17:05

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/19/13 19:00	1
Escherichia coli	absent				NONE			02/19/13 19:00	1

TestAmerica Irvine

Client Sample Results

Client: Golden State Water Company
 Project/Site: Distribution (Morongo Del Sur)

TestAmerica Job ID: 440-38596-1

Client Sample ID: Juniper & Senilis (MDS-4)

Lab Sample ID: 440-38596-4

Date Collected: 02/19/13 08:20

Matrix: Drinking Water

Date Received: 02/19/13 17:05

Method: Field Sampling - Field Sampling										
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac	
Field Temperature	19.0				Celsius			02/19/13 08:20	1	
Chlorine, Total Residual	1.75				mg/L			02/19/13 08:20	1	

Client Sample ID: Mojave & Hill NE Cor. (MDS-5)

Lab Sample ID: 440-38596-5

Date Collected: 02/19/13 09:10

Matrix: Drinking Water

Date Received: 02/19/13 17:05

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)										
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac	
Coliform, Total	present				NONE			02/19/13 19:00	1	
Escherichia coli	absent				NONE			02/19/13 19:00	1	

Method: Field Sampling - Field Sampling										
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac	
Field Temperature	16.5				Celsius			02/19/13 09:10	1	
Chlorine, Total Residual	1.00				mg/L			02/19/13 09:10	1	

CA ELAP #2706

Coliform Bacterial/Heterotrophic Plate Count Report

Prepared For: Golden State Water Company
13608 Hitt Road
Apple Valley, California 92308
Jeff Long

Project: Distribution (Morongo Del Sur)

Sampled: 02/21/2013
Received By:
Received: 02/21/2013
Issued: 02/28/2013

Laboratory ID	Client ID	Matrix	Time Sampled	Time Received	9223B Batch ID	Total Coliform (P/A)	E.Coli (P/A)	9215 Batch ID	Plate Count (MPN/mL)	R2A Plate Count	Free Chlorine	Total Chlorine (mg/L)	pH	Temp (F)	General Physical			Data Qualifiers
															Color	Turbidity	Cl:Br	
440-38927-1	Mojave & Hill NE Cor. (MDS-6)	Drinking Water	13:52	17:15	87637	A	A	87641	ND			1.58		17.2				
440-38927-2	48917 Buena Vista Dr. (MDS-5-U)	Drinking Water	14:05	17:15	87637	A	A	87641	ND			1.58		17.2				
440-38927-3	48918 Mojave Dr. (MDS-5-D)	Drinking Water	13:45	17:15	87637	A	A	87641	ND			1.79		16.6				

QC Batch Data:

Method

Coliforms, Total, and E.Coli (Presence/Absence)
Heterotrophic Plate Count (HPC)

Data Qualifiers and Definitions:

Qualifier **Definition**

Batch ID
87637
87641

Start Date
02/21/2013 20:54
02/21/2013 20:40

End Date
02/22/2013 13:47

TestAmerica Irvine



Urvasi Patel

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All analyses for Total Residual Chlorine, pH, and Temperature were not performed by TestAmerica Laboratories, Inc., but performed in the field by the sampler whose name appears on the attached Chain of Custody form. This Laboratory Report is confidential and is intended for the sole use of TestAmerica Laboratories, Inc. and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica Laboratories, Inc.. All analyses met method criteria, except as noted with data qualifiers. This entire report was reviewed and approved for release.

Client Sample Results

Client: Golden State Water Company
 Project/Site: Distribution (Morongo Del Sur)

TestAmerica Job ID: 440-38927-1

Client Sample ID: Mojave & Hill NE Cor. (MDS-5)

Lab Sample ID: 440-38927-1

Date Collected: 02/21/13 13:52

Matrix: Drinking Water

Date Received: 02/21/13 17:15

Method: SimPlate - Heterotrophic Plate Count (HPC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heterotrophic Plate Count	ND		20		MPN/mL			02/21/13 20:40	10

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/21/13 20:54	1
Escherichia coli	absent				NONE			02/21/13 20:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	17.2				Celsius			02/21/13 13:52	1
Chlorine, Total Residual	1.58				mg/L			02/21/13 13:52	1

Client Sample ID: 48917 Buena Vista Dr. (MDS-5-U)

Lab Sample ID: 440-38927-2

Date Collected: 02/21/13 14:05

Matrix: Drinking Water

Date Received: 02/21/13 17:15

Method: SimPlate - Heterotrophic Plate Count (HPC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heterotrophic Plate Count	ND		20		MPN/mL			02/21/13 20:40	10

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/21/13 20:54	1
Escherichia coli	absent				NONE			02/21/13 20:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	17.2				Fahrenheit			02/21/13 14:05	1
Chlorine, Total Residual	1.58				mg/L			02/21/13 14:05	1

Client Sample ID: 48918 Mojave Dr. (MDS-5-D)

Lab Sample ID: 440-38927-3

Date Collected: 02/21/13 13:45

Matrix: Drinking Water

Date Received: 02/21/13 17:15

Method: SimPlate - Heterotrophic Plate Count (HPC)

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heterotrophic Plate Count	ND		20		MPN/mL			02/21/13 20:40	10

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/21/13 20:54	1
Escherichia coli	absent				NONE			02/21/13 20:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Temperature	16.6				Fahrenheit			02/21/13 13:45	1
Chlorine, Total Residual	1.79				mg/L			02/21/13 13:45	1

TestAmerica Irvine

Client Sample Results

Client: Golden State Water Company
 Project/Site: Well Source Bactis (Morongo Del Sur)

TestAmerica Job ID: 440-38932-1

Client Sample ID: Yeager Well No. 2

Lab Sample ID: 440-38932-1

Date Collected: 02/21/13 13:25

Matrix: Drinking Water

Date Received: 02/21/13 17:15

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/21/13 20:54	1
Escherichia coli	absent				NONE			02/21/13 20:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	23.3				Celsius			02/21/13 13:25	1

CA ELAP #2706

Prepared For: Golden State Water Company
13608 Hitt Road
Apple Valley, California 92308
Jeff Long

Coliform Bacteria/Heterotrophic Plate Count Report

Project: Distribution (Morongo Del Sur)

Sampled: 02/26/2013
Sampled By:
Received: 02/26/2013
Issued: 03/07/2013

Laboratory ID	Client ID	Matrix	Time Sampled	Time Received	9223B Batch ID	Total Coliform (P/A)	E.Coli (P/A)	9215 Batch ID	Plate Count	R2A Plate Count	Free Chlorine	Total Chlorine (mg/L)	pH	Temp (C)	General Physical			Data Qualifiers
															Color	Odor	Turbidity	
440-39251-1	49925 29 Palms Highway (MDS-1)	Drinking Water	10:15	17:00	88255	P	P					2.6		22.6				
440-39251-2	10197 Pinon Dr. (Pinon Tank) (MDS-2)	Drinking Water	09:30	17:00	88255	A	A					1.51		15.0				
440-39251-3	Mojave Tank (MDS-3)	Drinking Water	08:50	17:00	88255	A	A					2.3		20.6				
440-39251-4	Juniper & Senitis (MDS-4)	Drinking Water	09:50	17:00	88255	A	A					2.05		19.8	ND	ND	0.15	
440-39251-5	Mojave & Hill NE Cor. (MDS-5)	Drinking Water	09:08	17:00	88255	A	A					1.46		16.8				

QC Batch Data:

Method
Coliforms, Total, and E.Coli (Presence/Absence)

Data Qualifiers and Definitions:

Qualifier Definition

Batch ID 88255
Start Date 02/26/2013 18:53
End Date 02/27/2013 12:24

TestAmerica Irvine



Urvasi Patel

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All analyses for Total Residual Chlorine, pH, and Temperature were not performed by TestAmerica Laboratories, Inc., but performed in the field by the sampler whose name appears on the attached Chain of Custody form. This Laboratory Report is confidential and is intended for the sole use of TestAmerica Laboratories, Inc. and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica Laboratories, Inc.. All analyses met method criteria, except as noted with data qualifiers. This entire report was reviewed and approved for release.

Client Sample Results

Client: Golden State Water Company
 Project/Site: Distribution (Morongo Del Sur)

TestAmerica Job ID: 440-39251-1

Client Sample ID: 49925 29 Palms Highway (MDS-1)

Lab Sample ID: 440-39251-1

Date Collected: 02/26/13 10:15

Matrix: Drinking Water

Date Received: 02/26/13 17:00

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	present				NONE			02/26/13 18:53	1
Escherichia coli	present				NONE			02/26/13 18:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	22.6				Celsius			02/26/13 10:15	1
Chlorine, Total Residual	2.6				mg/L			02/26/13 10:15	1

Client Sample ID: 10197 Pinon Dr. (Pinon Tank) (MDS-2)

Lab Sample ID: 440-39251-2

Date Collected: 02/26/13 09:30

Matrix: Drinking Water

Date Received: 02/26/13 17:00

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/26/13 18:53	1
Escherichia coli	absent				NONE			02/26/13 18:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	15.0				Celsius			02/26/13 09:30	1
Chlorine, Total Residual	1.51				mg/L			02/26/13 09:30	1

Client Sample ID: Mojave Tank (MDS-3)

Lab Sample ID: 440-39251-3

Date Collected: 02/26/13 08:50

Matrix: Drinking Water

Date Received: 02/26/13 17:00

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/26/13 18:53	1
Escherichia coli	absent				NONE			02/26/13 18:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	20.6				Celsius			02/26/13 08:50	1
Chlorine, Total Residual	2.3				mg/L			02/26/13 08:50	1

Client Sample ID: Juniper & Senilis (MDS-4)

Lab Sample ID: 440-39251-4

Date Collected: 02/26/13 09:50

Matrix: Drinking Water

Date Received: 02/26/13 17:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Odor	ND		1.0		T.O.N.			02/27/13 12:46	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Color	ND		1.0		Color Units			02/27/13 09:55	1
Turbidity	0.15		0.10		NTU			02/27/13 13:09	1

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/26/13 18:53	1
Escherichia coli	absent				NONE			02/26/13 18:53	1

TestAmerica Irvine

Client Sample Results

Client: Golden State Water Company
 Project/Site: Distribution (Morongo Del Sur)

TestAmerica Job ID: 440-39251-1

Client Sample ID: Juniper & Senilis (MDS-4)

Lab Sample ID: 440-39251-4

Date Collected: 02/26/13 09:50

Matrix: Drinking Water

Date Received: 02/26/13 17:00

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	19.8				Celsius			02/26/13 09:50	1
Chlorine, Total Residual	2.05				mg/L			02/26/13 09:50	1

Client Sample ID: Mojave & Hill NE Cor. (MDS-5)

Lab Sample ID: 440-39251-5

Date Collected: 02/26/13 09:08

Matrix: Drinking Water

Date Received: 02/26/13 17:00

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/26/13 18:53	1
Escherichia coli	absent				NONE			02/26/13 18:53	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	16.8				Celsius			02/26/13 09:08	1
Chlorine, Total Residual	1.46				mg/L			02/26/13 09:08	1

CA ELAP #2706

Coliform Bacteria/Heterotrophic Plate Count Report

Prepared For: Golden State Water Company
13608 Hitt Road
Apple Valley, California 92308
Jeff Long

Project: Distribution (Morongo Del Sur)

Sampled: 02/28/2013
Sampled By:
Received: 02/28/2013
Issued: 03/07/2013

Laboratory ID	Client ID	Matrix	Time Sampled	Time Received	9223B Batch ID	Total Coliform (P/A)	E.Coli (P/A)	9215 Batch ID	Plate Count	R2A Plate Count	Free Chlorine (mg/L)	Total Chlorine (mg/L)	pH	Temp (C)	General Physical		Data Qualifiers
															Color	Turbidity	
440-39546-1	49925 29 Palms Highway (MDS-1)	Drinking Water	10:50	17:10	88903	A	A					2.8		23.2			
440-39546-2	11116 Trail Way Drive (MDS-1-U)	Drinking Water	11:10	17:10	88903	A	A					2.3		23.4			
440-39546-3	49927 29 Palms Highway (MDS-1-D)	Drinking Water	11:00	17:10	88903	A	A					2.9		23.1			

QC Batch Data:

Method
Coliforms, Total, and E.Coli (Presence/Absence)

Data Qualifiers and Definitions:

Qualifier Definition

Batch ID
88903

Start Date
02/28/2013 18:35

End Date
03/01/2013 10:59

TestAmerica Irvine



Urvasi Patel

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. All analyses for Total Residual Chlorine, pH, and Temperature were not performed by TestAmerica Laboratories, Inc., but performed in the field by the sampler whose name appears on the attached Chain of Custody form. This Laboratory Report is confidential and is intended for the sole use of TestAmerica Laboratories, Inc. and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica Laboratories, Inc. All analyses met method criteria, except as noted with data qualifiers. This entire report was reviewed and approved for release.

Client Sample Results

Client: Golden State Water Company
 Project/Site: Distribution (Morongo Del Sur)

TestAmerica Job ID: 440-39546-1

Client Sample ID: 49925 29 Palms Highway (MDS-1)

Lab Sample ID: 440-39546-1

Date Collected: 02/28/13 10:50

Matrix: Drinking Water

Date Received: 02/28/13 17:10

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/28/13 18:35	1
Escherichia coli	absent				NONE			02/28/13 18:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	23.2				Celsius			02/28/13 10:50	1
Chlorine, Total Residual	2.8				mg/L			02/28/13 10:50	1

Client Sample ID: 11116 Trail Way Drive (MDS-1-U)

Lab Sample ID: 440-39546-2

Date Collected: 02/28/13 11:10

Matrix: Drinking Water

Date Received: 02/28/13 17:10

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/28/13 18:35	1
Escherichia coli	absent				NONE			02/28/13 18:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	23.4				Celsius			02/28/13 11:10	1
Chlorine, Total Residual	2.3				mg/L			02/28/13 11:10	1

Client Sample ID: 49927 29 Palms Highway (MDS-1-D)

Lab Sample ID: 440-39546-3

Date Collected: 02/28/13 11:00

Matrix: Drinking Water

Date Received: 02/28/13 17:10

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/28/13 18:35	1
Escherichia coli	absent				NONE			02/28/13 18:35	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	23.1				Celsius			02/28/13 11:00	1
Chlorine, Total Residual	2.9				mg/L			02/28/13 11:00	1

Client Sample Results

Client: Golden State Water Company
 Project/Site: Well Source Bactis (Morongo Del Sur)

TestAmerica Job ID: 440-39539-1

Client Sample ID: Yeager Well No. 2

Lab Sample ID: 440-39539-1

Date Collected: 02/28/13 11:25

Matrix: Drinking Water

Date Received: 02/28/13 17:10

Method: SM 9223B - Coliforms, Total, and E.Coli (Presence/Absence)									
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	absent				NONE			02/28/13 18:35	1
Escherichia coli	absent				NONE			02/28/13 18:35	1

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Temperature	24.2				Celsius			02/28/13 11:25	1

Attachment No. 2

GSWC-MORONGO DEL SUR TIER 2 PUBLIC NOTICE

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.

Golden State Water Company's Morongo Del Sur Water System had levels of coliform bacteria above the drinking water standards in February 2013

The following is a mandatory notification, required by state law, when we learn about changes in water quality as a result of our testing. We are committed to providing customers with timely and accurate information about their water supply.

GSWC's Morongo Del Sur Water System, which serves approximately 785 customers in the Morongo Valley area, recently failed to meet the drinking water standard for total coliform bacteria, which are naturally present in the environment.

On February 19, one sample from the water distribution system tested positive for total coliform. On February 26, one sample from the water distribution system tested positive for total coliform, and was identified as *E. coli* bacteria.

All follow-up samples processed the next day and all subsequent samples since February 26 were negative for all types of coliform bacteria.

The California Department of Public Health sets drinking water standards and has determined the presence of total coliform is a possible health concern. A public water system which collects fewer than 40 routine samples per month is in violation of the total coliform maximum contaminant level (MCL) when two or more samples collected during a month are positive.

Since all follow-up samples were negative for the presence of any coliform activity and the issue was resolved, GSWC was not required to provide an immediate notice to customers. The Morongo Del Sur Water System is now in compliance with all regulations.

What should customers do?

- **You do not need to boil your water or take other corrective actions.**
- If this was an emergency or required prompt action, you would have been notified immediately.

What are coliform bacteria?

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.

Fecal coliforms and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems. The symptoms above are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

What causes coliform bacteria?

Usually, coliforms are a sign there could be a problem with the system's treatment or water distribution system. Whenever GSWC detects coliform bacteria in any sample, we immediately perform follow-up testing to determine if other bacteria of greater concern, such as fecal coliform or *E. coli*, are present. The follow-up sampling of the Morongo Del Sur water distribution system **did not find any of these bacteria and further testing indicates this problem has been resolved.**

How was the coliform bacteria identified and corrected?

After submitting routine weekly water quality samples collected from the distribution system, our independent laboratory notified us of the *E. coli* bacteria detection. GSWC took immediate action by taking follow-up samples, carefully examining all plant sites and the distribution system and increasing chlorine residuals throughout the system. Chlorine acts as a disinfectant. If coliform bacteria were present in the system, increasing the chlorine residual would kill the bacteria. **Follow-up samples showed that the problem had been resolved.** Your water is now in compliance with all drinking water regulations.

What are the risks to people?

- Although your water is in compliance with all drinking water regulations, as a precaution, people with severely compromised immune systems, infants, and some elderly 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.

For more information, please contact Stacey Roberts, Water Quality Engineer at 1-800-999-4033 or write to 13608 Hitt Road, Apple Valley, CA. 92308.

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). Post this public notice in a public place or distribute 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 Golden State Water Company – Morongo Del Sur System.

State Water System ID#: 3610063

Date distributed: March 20, 2013

INFORMACIÓN IMPORTANTE ACERCA DE SU AGUA POTABLE

El Sistema de Agua Morongo Del Sur de Golden State Water Company tuvo niveles de bacteria coliforme por encima del estándar del agua potable en Febrero 2013

Lo siguiente es una notificación obligatoria, requerida por la ley del estado, cuando nos damos cuenta de cambios en la calidad del agua como resultado de las pruebas. Estamos comprometidos a proveer al cliente con información de manera oportuna y precisa acerca del suministro de agua.

El sistema de agua Morongo Del Sur de GSWC, cual sirve a aproximadamente 785 clientes en la área del Valle de Morongo recientemente no cumplió con el estándar del agua potable para coliformes totales cuales están presentes naturalmente en el medio ambiente.

El 19 de Febrero una muestra del sistema de agua tuvo resultado positivo para coliformes totales. El 26 de Febrero una muestra del sistema de agua tuvo resultado positivo para coliformes totales y fue identificada como bacteria *E. coli*.

Muestras adicionales fueron procesadas el próximo día y todas las muestras posteriores desde el 26 de Febrero fueron negativas para todos tipos de bacteria coliforme.

El Departamento de Salud Pública de California (DPH) dicta los estándares de agua potable y ha determinado que la presencia de coliformes totales es una posible preocupación de salud. Un sistema de agua publico que colecta menos de 40 muestras rutinarias por mes esta en violación del nivel máximo del contaminante cuando dos o más muestras colectadas durante el mes son positivas.

Golden State Water Company (GSWC) no fue requerido a proveer notificación inmediata a los clientes ya que todas las once muestras adicionales fueron negativas de la presencia de cualquier actividad coliforme y la situación fue resuelta. El Sistema de agua de Morongo Del Sur ahora está en cumplimiento de todas las regulaciones.

¿Qué deberían de hacer los clientes?

- **No es necesario hervir el agua o tomar otras acciones correctivas.**
- **Si esto fuera una emergencia o requiriera acción rápida, usted hubiera sido notificado inmediatamente.**

¿Qué son bacteria coliforme?

Coliformes son bacteria que están presentes naturalmente en el medioambiente y son utilizados como un indicador si otras bacterias potencialmente peligrosas pueden estar presentes. Coliformes fueron encontradas en mas muestras que permitido y esto fue una advertencia de problemas potenciales.

Los coliformes fecales y el *E. coli* son bacterias cuya presencia indica que el agua podría estar contaminada con heces fecales humanas o de animales. Los microbios en estos desechos pueden causar efectos a corto plazo como diarrea, cólicos, nauseas, dolores de cabeza u otros síntomas. Estos patógenos podrían suponer un riesgo especial de salud para los bebés, niños pequeños, algunos de los ancianos y personas con sistemas inmunitarios gravemente comprometida. Los síntomas anteriormente mencionados no son causados solamente por

organismos en el agua potable. Si usted experimenta cualquiera de estos síntomas y persisten, es posible que desee buscar consejo médico.

¿Qué causa bacteria coliforme?

Normalmente coliformes son una señal que puede haber un problema con el sistema de tratamiento o de distribución. Cuando GSWC detecta bacteria coliforme en cualquier muestra, inmediatamente tomamos muestras adicionales para determinar si otra bacteria de mayor preocupación, como coliforme fecal o *E. coli*, está presente. En las muestras adicionales del sistema de agua Morongo Del Sur **no se encontraron ningunas de estas bacteria y aun más pruebas muestran que este problema ha sido resuelto.**

¿Cómo fue la bacteria coliforme identificada y corregida?

Después de entregar muestras semanales rutinarias de la calidad de agua colectadas del sistema de distribución, fuimos notificados por nuestro laboratorio independiente de la detección de bacteria *E. coli*. GSWC tomo acción inmediata al tomar muestras adicionales, examinando cuidadosamente el suministro de agua y el sistema de distribución y se aumento el residuo de cloro en todo el sistema. Cloro actúa como un desinfectante. Si bacteria coliforme estuviera presente en el sistema, aumentando el residuo de cloro destruiría la bacteria. **Muestras adicionales demuestran que el problema se ha resuelto.** Su agua ahora cumple con todas las regulación de agua potable.

¿Cuáles son los riesgos a personas?

- Aunque GSWC cree que su agua cumple con todas las regulaciones de agua potable, como precaución, las personas con sistemas inmunológicos severamente comprometidos, infantes, y algunas personas mayores deberían de pedir consejos sobre el agua potable de su proveedor de cuidado médico. Pautas generales en maneras de reducir el riesgo de contagio por microbios están disponibles al llamar la Línea Directa de Agua Sana de Beber de la Agencia para la Protección del Medioambiente de los Estados Unidos (EPA) al 1(800) 426-4791.
- Si tiene otras cuestiones de salud con respecto al consumo de esta agua, podría consultar a su médico.

Para más información, favor contacte a Stacey Roberts, Ingeniero de Calidad de Agua al (800) 999-4033 o escriba al 13608 Hitt Road, Apple Valley, CA 92308.

Por favor comparta esta información con todas las otras personas que beben esta agua, especialmente los que no hayan recibido esta notificación directamente (por ejemplo, las personas en apartamentos, en los hogares de ancianos, en las escuelas, y en los negocios). Puede hacer esto con localizar este anuncio en lugares públicos o distribuir copias a mano o por el correo.

Requisitos Secundarios de Notificación

Tras la recepción de la notificación de una persona que opera un sistema público de agua, la notificación siguiente debe ser proporcionada dentro de 10 días [Salud y Seguridad Codifica Sección 116450(g)]:

- ESCUELAS: Deben notificar a empleados de la escuela, los estudiantes, y los padres (si los estudiantes son menores).
- DUEÑOS DE PROPIEDADES RESIDENCIALES de RENTA O ADMINISTRADORES (inclusive facilidades de enfermos y hogares de ancianos): Deben notificar a inquilinos.

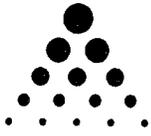
- DUEÑOS DE PROPIEDADES de NEGOCIO, los ADMINISTRADORES, O los OPERARIOS: Deben notificar a empleados de negocios localizados en la propiedad.

Esta notificación se manda a usted por Golden State Water Company, Sistema Morongo del Sur

Identificación del Sistema de Agua #: 3610063. Fecha de Distribución: Marzo 20, 2013

Attachment No. 3

POSITIVE TOTAL COLIFORM INVESTIGATION FORM
AND
TCR MCL VIOLATION INVESTIGATION REPORT



Golden State

WATER COMPANY

A Subsidiary of American States Water Company

March 27, 2013

Mr. Sean McCarthy, P.E., District Engineer
California Dept. of Public Health
Division of Drinking Water, Field Operations Branch
464 W. 4th Street, Suite 437
San Bernardino, CA 92401-1407

RECEIVED

APR - 8 2013

Drinking Water Program
San Bernardino District

Dear Mr. McCarthy:

Enclosed is our investigative report of the Tier 2 Total Coliform Rule violation in Golden State Water Company's Morongo del Sur system in the month of February, 2013.

Appropriate Tier 2 notification has been made. Information regarding the notification is also enclosed in the report.

Golden State Water Company would like to take this opportunity to thank Jay Das for his assistance, expertise, and open communication during this event.

If you have any questions or concerns regarding this report, please do not hesitate to contact me at (909) 592-4271, ext. 106, or at the email address below.

Sincerely,

Stacey Roberts, R.E.H.S.
Water Quality Engineer, Mountain-Desert District
staceyroberts@gswater.com

Enclosure

c: Internal Distribution
J. Boothe, California PUC

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

Entity Name:		Name	Telephone Number
PWSID NUMBER: 3610063	System Type:	Michael Pollack	
Operator in Responsible Charge (ORC)		Rafael Aguirre	760 363 7628
Person that collected TC samples if different than ORC		Golden State Water Company	
System Owner		Test America	
Certified Laboratory for Microbiological Analyses			
Date Investigation Completed: 2/28/13			
Month(s) of Total Coliform MCL Failure: February 2013			
System Address & Email			

INVESTIGATION DETAILS

SOURCE	WELL (1)	WELL (name)	WELL (name)	WELL (name)	WELL (name)	COMMENTS (attach additional pages if needed)
1. Inspect each well head for physical defects and report						
a. Is raw water sample tap upstream from point of disinfection?	Yes					Well Yeager 2
b. Is wellhead vent pipe screened?	Yes					
c. Is wellhead seal water-tight?	Yes					
d. Is well head located in pit or is any piping from the wellhead submerged?	No					
e. Does the ground surface slope towards well head?	No					
f. Is there evidence of standing water near the wellhead?	No					
g. Are there any connections to the raw water piping that could be cross connections? (describe all connections in comments)	No					
h. Is the wellhead secured to prevent unauthorized access?	Yes					
i. To what treatment plant (name) does this well pump?		Mojave Tank				
j. How often do you take a raw water total coliform (TC) test?		Monthly				
k. Provide the date and result of the last TC test at this location		2/05/13, Absent				
2. Inspect and review records for surface water source (if applicable)						
a. Have there been any events in the watershed or near the intake that might have contributed to TC+ or EC+ results? (Describe)	No					

TREATMENT

TREATMENT	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	COMMENTS
1. If you provide continuous chlorination treatment was there any equipment failure?	No				
a. Did the distribution system maintain chlorine residual?	Yes				
b. Was emergency chlorination initiated? If yes, for how long?	-				
c. Did the distribution system lose chlorine residual?	No				
2. If you do not provide routine chlorination, was emergency chlorination initiated? If Yes, when?	-				

POSITIVE TOTAL COLIFORM INVESTIGATION

TREATMENT	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	PLANT (NAME)	COMMENTS
3. Inspect each point where disinfectant is added and report					
a. Is the disinfectant feed pump feeding disinfectant?	Yes				
b. What is the feed rate of disinfectant in ml/minute?					
c. What is the concentration of the disinfectant solution being fed? (percent or mg/l of chlorine as HOCl)	12.5				
d. By what method was the concentration of solution determined? (ex: measured, manufacturer's literature)	Residual comparator				
e. What is the age (days) of the disinfectant solution currently being used at this treatment location?	2 weeks				
f. What is the raw water flow rate at the point where disinfectant is added in gallons per minute?	300 gpm				
g. What is the total chlorine residual measured immediately downstream from the point of application?	2.7				
h. What is the free chlorine residual measured immediately downstream from the point of application?	2.38				
i. What is the contact time in minutes from the point of disinfectant application to the first customer?	Instant				

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)	36 inches			
2. Is the sample tap located in an exterior location or is it protected by an enclosure?	enclosed			
3. Is the sample tap threaded, have a swing arm (kitchen sink) or an aerator (sinks)?	No			
4. Is the sample tap in good condition, free of leaks around the stem or packing?	Yes			
5. Can the sample tap be adjusted to the point where a good laminar flow can be achieved without excessive splash?	Yes			
6. Is the sample tap and areas around the sample tap clean and dry (free of animal droppings other contaminants or spray irrigation systems)?	Yes			
7. Is the area around the sample tap free of excessive vegetation or other impediments to sample collection?	Yes			
8. Describe how the tap was treated in preparation for sample collection (ran water, swabbed with disinfectant, flamed, etc.).	Swabbed & Flamed			
9. Is this sample tap designated on the sampling plan submitted with this information request?	Yes			
10. What were the weather conditions at the time of the positive sample (rainy, windy, and sunny)?	Windy			

POSITIVE TOTAL COLIFORM INVESTIGATION

STORAGE					
	TANK (name)	TANK (name)	TANK (name)	TANK (name)	COMMENTS
1. Is each tank locked to prevent unauthorized access?	Yes				
2. Are all vents of each tank screened down-turned to prevent dust and dirt from entering the tank?	Yes				Mojave
3. Is the overflow on each tank screened?	Yes				
4. Are there any unsealed openings in the tank such as access doors, water level indicators hatches, etc.?	No				
5. Is the roofcover of the tank sealed and free of any leaks?	Yes				
6. Is the tank above ground or buried?	Above				
a. If buried or partially buried, are there provisions to direct surface water away from the site.	N/A				
b. Has the interior of the tank been inspected to identify any sanitary defects, such as root intrusion?	Yes				
8. Does the tank "float" on the distribution system or are there separate inlet and outlet lines?	Separate				
9. What is the measured chlorine residual (total/free) of the water exiting the storage tank today?	2.3				
10. What is the volume of the storage tank in gallons?	100,000				
11. Is the tank baffled?	No				
12. Prior to the TC+ or EC+, what was the previous date item #1-7 were checked and documented?	2/19/13				

DISTRIBUTION SYSTEM					
	SYSTEM RESPONSES				
1. What is the minimum pressure you are maintaining in the distribution system?	75 psi				
2. Did pressure in the distribution system drop to less than 5 psi prior to positive bac?*	No				
3. Has the distribution system been worked on within the last week? (taps, hydrant flushing, main breaks, mainline extensions, etc.) If yes, provide details.	Yes, New construction the ins				
4. Are there any signs of excavations near your distribution system not under the direct control of your maintenance staff?	No				
5. Did you inspect your distribution system to check for mainline leaks? Do you or did you have a mainline leak?	Last main break on 2-14-13 Hess & Semilis				
6. If there was a mainline leak, when was it repaired?	2-14-13				
7. On what date was the distribution system last flushed?	11-8-12 to 11-27-12				
8. Is there a written flushing procedure you can provide for our review?	Yes				
9. Do you have an active cross-connection control program?	Yes				
10. What is name & phone number of your Cross-Connection Control Program Coordinator?	Noe Diaz, 760-247-3391				
11. Is the review and testing of backflow prevention devices current?	Yes				
12. On what date was the last physical survey of the system done to identify cross-connections?	October 2011				

POSITIVE TOTAL COLIFORM INVESTIGATION

BOOSTER STATION

Question	Response
1. Do you have a booster pump? How many?	Yes, 8
2. Do you have a standby booster pump if the main pump fails?	Yes
3. Prior to bacteriological quality problems, did your booster pump fail?	No
4. Do you notice standing water, leakage at the booster station?	No

GENERAL OPERATIONS:

Question	Response
1. Where there any power outages that affected water system facilities during the 30 days prior to the TC+ or EC + findings?	No
2. Where there any main breaks, water outages, or low pressure reported in the service area where TC+ or EC+ samples were located.	No
3. Does the system have backup power or elevated storage?	Yes
4. During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many?	No
5. What were the symptoms of illness if you received complaints about customers being sick?	NA

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.
5. Updated source water assessment(s) (DWSAP) if there have been changes to well construction or potentially contaminating activities (PCA list) since last inspection.

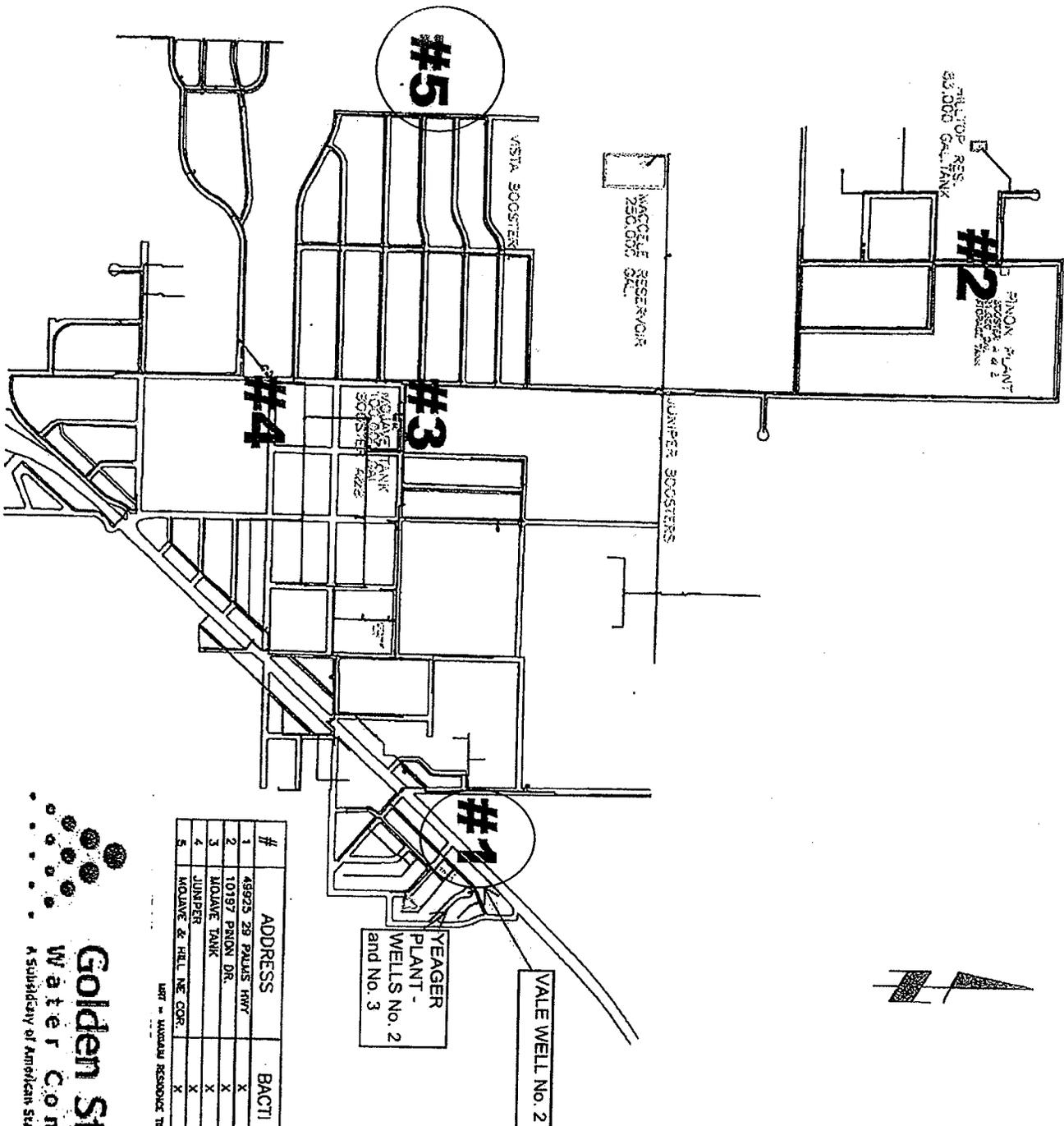
SUMMARY: BASED ON THE RESULTS OF YOUR INVESTIGATION AND ANY OTHER INFORMATION AT YOUR DISPOSAL, WHAT DO YOU BELIEVE TO BE THE CAUSE OF THE POSITIVE TOTAL COLIFORM SAMPLES FROM YOUR PUBLIC WATER SYSTEM?
 Repair of a main break and local construction were the only disturbances to the system during the month of February. In both instances, appropriate BMP's were observed, and no obvious source of contamination discovered. The true cause(s) of the positive samples cannot be readily determined.

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

NAME: Michael Pollock

TITLE: Superintendent

DATE: 2-28-13



#	ADDRESS	BACTI	DBPs
1	48925 28 PALMS HWY	X	
2	10197 PRION DR.	X	X (AQT)
3	MOJAVE TANK	X	
4	JUNIPER	X	
5	MOJAVE & HILL NE COR.	X	

LIST - WAKARUA RESERVOIR TRAC



Golden State
Water Company

A Subsidiary of American States Water Company

MOUNTAIN DESERT DISTRICT - MORONGO DEL SUR

Golden State Water Company – TCR MCL Violation Investigation Report

RECEIVED

Morongo del Sur System (3610063) - February, 2013 APR - 8 2013

Introduction

Drinking Water Program
San Bernardino District

Golden State Water Company's (GSWC) Morongo Del Sur System is located in San Bernardino County and serves a portion of the unincorporated community of Morongo Valley. The system serves a population of approximately 2,600 people through 789 service connections. The Morongo Del Sur system is served entirely by groundwater which is pumped and chlorinated at one or more of three approved wells.

Per the Sample Siting Plan submitted to CDPH in accord with the Total Coliform Rule, the Morongo Del Sur system is required to collect five (5) routine coliform samples throughout the distribution system on a weekly basis. In accordance with our approved bacteriological sample siting plan, GSWC collected five routine bacteriological samples on Tuesday, February 19, 2013. The samples were sent to TestAmerica Laboratories (TestAmerica) for analysis. On Wednesday, February 20, at approximately 2:30 p.m., TestAmerica notified GSWC that one sample tested positive for total coliform, negative for E. coli. The location of the positive sample and pertinent information associated with this sample is shown in Table 1.

Table 1 – Coliform-Positive Sample Location

SAMPLE DATE	SAMPLE ID	LOCATION	SAMPLER	CHLORINE RESIDUAL (ppm)	TEMP (°C)
2/19/2013	MDS-5	Corner Mojave & Hill	R. Aguirre	1.0	16.5

Repeat samples were collected from the original sample location, as well as upstream and downstream locations, on February 21, 2013. Per the Groundwater Rule, a sample was also collected from Yeager Well #2, the only well online. The samples were transported to TestAmerica and set-up for coliform analysis on the same day. All follow-up samples tested negative for total coliform and E.coli.

On Tuesday, February 26, 2013, routine bacteriological samples were collected. The samples were sent to TestAmerica for analysis. On Wednesday, February 27, at approximately 2:00 p.m., TestAmerica notified GSWC that one sample tested positive for total coliform, positive for E. coli. The location of the positive sample and pertinent information associated with this sample is shown in Table 2.

Table 2 – Coliform-Positive Sample Location

SAMPLE DATE	SAMPLE ID	LOCATION	SAMPLER	CHLORINE RESIDUAL (ppm)	TEMP (°C)
2/26/2013	MDS-1	49925 29 Palms Hwy.	R. Aguirre	2.8	23.2

Repeat samples were collected from the original sample location, as well as upstream and downstream locations, on February 28, 2013. Per the Groundwater Rule, a sample was also collected from Yeager Well #2, the only well online. The samples were transported to TestAmerica and set-up for coliform analysis on the same day. All follow-up samples tested negative for total coliform and E.coli.

Golden State Water Company – TCR MCL Violation Investigation Report

Morongo del Sur System (3610063) – February, 2013

GSWC notified the California Department of Public Health (CDPH) upon receipt of the notification of the positive results on February 27, 2013, both by phone and e-mail. GSWC remained in communication with CDPH by phone and email until results of the repeat samples collected on February 28 were reported as negative for total coliform, and it was determined that there had been a Tier 2 violation of the Total Coliform Rule.

For reference, copies of the laboratory reports are included in Appendix B. The locations of the positive samples are shown on the system map in Appendix A.

Investigation

The Morongo Del Sur system is served entirely by groundwater from two wells: Yeager No. 2 and Yeager No. 3. A third well, Vale No. 2 has been offline since 2010. All water pumped to the system is disinfected at the wellheads.

Data Evaluation

There was a detectable residual in all samples that tested positive for total coliform and E. coli. There was no overt change in water quality that would indicate a possible cause of the coliform incident.

Speciation tests were performed on the two total coliform-positive samples. The positive sample collected on February 19 had bacteria identified as Raoultella terrigena. The positive sample collected on February 26 had bacteria identified as Escherichia coli 1 and Citrobacter freundii.

Source Investigation

Yeager Well No. 2, the only well online during the month of February, tested negative for total coliform during routine monitoring conducted February 5, 2013. All samples collected at this well per the Groundwater Rule, in concert with the follow up samples collected in the distribution system on February 20 and February 27, were also negative for total coliform.

System Evaluation

GSWC conducted a thorough investigation of the sources and distribution system throughout the Morongo del Sur system in an effort to determine the source(s) of the coliform. All plant sites, including booster stations and finished water reservoirs, were found to be secured and undisturbed.

The Morongo del Sur system uses dedicated sample stations at MDS-1, MDS-4 and MDS-5. Other samples are collected from two of the reservoirs in the system to collect their routine samples; all are in good condition. The sample stations are kept clean and free of debris, and the sample taps are in good condition.

There is no indication that the pressure in the distribution system dropped below normal around the time of the incident, and there is no known evidence that a cross-connection event has occurred in the distribution system.

The system did not experience any power outages around the time of the incident, and we have not received any reports of customer illness.

Golden State Water Company – TCR MCL Violation Investigation Report

Morongo del Sur System (3610063) – February, 2013

No evidence of construction activity, flushing or valve activity in the 48 hours prior to the September 19 sampling was discovered. However, it should be noted that there was a main break in the distribution system on February 14, near the intersection of Hess and Senilis, which is approximately one-third of a mile from the positive location. Positive pressure was maintained during repair, and no contamination is thought to have occurred during this event.

There was also a new construction tie-in which occurred prior to the sampling on February 26, near the coliform-positive location. Best Management Practices were observed during the tie-in, and bacteriological samples collected upon completion of the tie-in were coliform-negative. No contamination is thought to have occurred through this activity.

In summary, investigation of the distribution system did not reveal any conclusive cause of the positive samples.

Sample Collection

The routine MDS samples were taken by an operator with extensive experience and training. There is no indication of operator error as a cause of the coliform-present samples.

Public Notification

The required Tier 2 notification in both English and Spanish was sent out via a mass-mailing to our customers on March 20, 2013. A copy of the notification is attached. The notice was also placed on our website at www.gswater.com.

Summary and Conclusion

A full investigation of the two coliform-positive samples in the Morongo del Sur system during the month of February, 2013, did not reveal a conclusive source of the contamination. However, as noted earlier in this report, construction work near the location of the second positive may have played a role in the sampling results for samples collected on February 26. Sampling methods appear to be sound. All bacteriological samples collected from the system since February 26, 2013, have tested negative for total coliform and E. coli.

In an effort to prevent the recurrence of coliform in the Morongo Del Sur system, GSWC is currently developing a Unidirectional Flushing Program for this system.

Attachment No. 4

PROOF OF NOTIFICATION FORM

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 receipt of giving public notice.

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.