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**STATE OF CALIFORNIA**  
**DEPARTMENT OF PUBLIC HEALTH**

**IN RE:** California Rehabilitation Center - Norco  
P.O. Box 1841  
Norco, CA 92860-0991

**TO:** Cynthia Y. Tampkins, Warden  
California Rehabilitation Center - Norco

**CITATION FOR NONCOMPLIANCE - WATER SYSTEM NO. 3310800**  
**CITATION NO. 05-20-14C-001**  
**Issued on January 21, 2014**

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 the California Safe Drinking Water Act, or any regulation, standard, permit or order issued thereunder.

**VIOLATION**

The California Department of Public Health, Drinking Water Field Operations Branch (hereinafter Department), hereby issues a citation to the California Rehabilitation Center – Norco (hereinafter CRC) (P.O. Box 1841, Norco, CA 92860-0991) for the following violation:

1. Title 22, California Code of Regulations (CCR), Section 64426.1(b)(2): Specifically, CRC failed to comply with the Primary Drinking Water Standard for total coliform

1 bacteria during the month of December 2013. For a public water system that  
2 collects fewer than 40 samples in a month, the water system is in violation of the  
3 total coliform Maximum Contaminant Level (MCL) when more than one sample  
4 collected during any month is total coliform-positive. Four routine distribution  
5 system samples collected during December 2013 were total coliform-positive.

- 6
- 7 2. Directive 2 of Citation 05-20-11C-023, issued November 16, 2011: Specifically,  
8 CRC failed to maintain a minimum chlorine residual of 0.2 mg/L in at least 95  
9 percent of the samples collected throughout the distribution system during the  
10 months of November 2011, July 2012, December 2012, March 2013, October  
11 2013, and December 2013.

12

13 **BACKGROUND**

14 The CRC water system is operated under Water Supply Permit No. 05-20-07P-004,  
15 issued by the Department on January 29, 2007. CRC serves water to approximately  
16 5,400 staff and inmates at the Rehabilitation Center in Norco, CA. Water is also  
17 supplied to the Center Force (Hospitality House), and the Department of Forestry  
18 (Camp Norco). CRC is located within the City of Norco in the northwestern portion of  
19 Riverside County, and receives all of its potable water from two service connections  
20 with the City of Norco (City). CRC has two reservoirs, one booster station at  
21 Reservoir No. 1, and a chlorination station also located at Reservoir No. 1. The water  
22 supplied by the City consists primarily of groundwater produced by the City's wells  
23 and, depending on system demand and availability, treated groundwater purchased  
24 from Western Municipal Water District (WMWD). The water supplied by the City  
25 generally contains a disinfectant residual ranging from 0.02 – 2.2 mg/L, measured  
26 daily by CRC at the two connections with the City. CRC provides additional



1 chlorination using liquid sodium hypochlorite administered at the effluent of Reservoir  
2 No. 1 to boost chlorine residual levels in the distribution system as necessary.

3

4 CRC collects three routine coliform samples per week rotated among five designated  
5 sampling sites in the distribution system in accordance their Department-approved  
6 Bacteriological Sample Siting Plan (BSSP), dated March 28, 2011. In addition to the  
7 routine samples, CRC collects a special sample at Reservoir No. 1 weekly for  
8 bacteriological analysis. All routine coliform samples are also analyzed for  
9 heterotrophic plate count (HPC) as required by the Department. Pursuant to CCR,  
10 Title 22, Section 64534.4, CRC is required to measure residual disinfectant levels at  
11 the same locations in the distribution system and at the same time total coliform  
12 samples are collected. All routine coliform samples are also analyzed for general  
13 physical parameters such as color, odor, and turbidity.

14

#### 15 **PREVIOUS ENFORCEMENT ACTIONS**

16 The following enforcement actions were previously issued to this system for similar  
17 violations:

18

19 November 16, 2011: The Department issued Citation No. 05-20-11C-023 for failure of  
20 the total coliform MCL during the month of October 2011, and failure to meet the  
21 minimum chlorine residual for October 2011.

22

23 August 16, 2011: The Department issued Citation No. 05-20-11C-018 for failure of the  
24 total coliform MCL during the month of June 2011, and failure to meet the minimum  
25 chlorine residual requirement as directed in the previous Citations.

26

1 May 23, 2011: The Department issued Citation No. 05-20-11C-011 for failure of the  
2 total coliform MCL during the month of April 2011, failure to comply with the  
3 monitoring and reporting requirements of the Total Coliform Rule, failure to analyze  
4 routine samples for HPCs, and failure to meet the minimum chlorine residual  
5 requirement as directed in previous Citations.

6  
7 April 7, 2011: The Department issued Citation No. 05-20-11C-007 for failure of the  
8 total coliform MCL during the month of February 2011, failure to conduct repeat  
9 sampling, failure to comply with the monitoring and reporting requirements of the Total  
10 Coliform Rule, and failure to meet the minimum chlorine residual requirement as  
11 directed in previous Citations. CRC was also assessed a civil penalty of \$800 for not  
12 complying with previous Citation directives.

13  
14 January 27, 2010: The Department issued Citation No. 05-20-10C-006 for failure to  
15 meet the minimum chlorine residual requirement in the distribution system during the  
16 months of July 2009, September 2009, and October 2009.

17  
18 November 19, 2008: The Department issued Citation No. 05-20-08C-013 for failure of  
19 the total coliform MCL during the month of September 2008, failure to measure the  
20 residual disinfectant levels in the distribution system, and failure to meet the minimum  
21 chlorine residual requirement as directed in the previous two Citations. CRC was also  
22 assessed a civil penalty of \$1,600 for not complying with previous Citation directives.

23  
24 October 14, 2005: The Department issued Citation No. 05-20-05C-018 for failure of  
25 the total coliform MCL during the month of August 2005, in addition to failure to  
26 conduct the proper follow-up monitoring and reporting. CRC was also cited for not  
27 complying with various directives from Citation No. 05-20-03C-002, including the

1 requirement that CRC maintain a minimum of 0.2 mg/L residual disinfectant  
2 throughout the distribution system.

3

4 January 27, 2003: The Department issued Citation No. 05-20-03C-002 for failure of  
5 the total coliform MCL during the month of December 2002. The Citation required  
6 CRC to maintain a chlorine residual of at least 0.2 mg/L throughout the distribution  
7 system. The Citation also required CRC to submit a report to the Department  
8 describing the modifications to the chlorination facility, distribution system, and  
9 operations that would provide and maintain a reliable disinfectant residual in the water  
10 supplied to consumers.

11

## 12 **CHRONOLOGY OF EVENTS**

13 The following is the chronology of events that occurred during December 2013  
14 regarding the total coliform MCL failure. The laboratory reports are included as  
15 [Attachment No. 1](#).

16

17 Wednesday, December 4, 2013: Three routine total coliform monitoring samples  
18 (routine samples) and one special reservoir sample (at Reservoir No. 1) were  
19 collected. All four samples were found to be absent for total coliform bacteria.  
20 Heterotrophic Plate Counts (HPCs) ranged from non-detect (<2 MPN/mL) to 21  
21 MPN/mL. Chlorine residuals measured ranged from 0.2 mg/L to 0.68 mg/L at the  
22 routine sample sites, and 0.18 mg/L at the reservoir.

23

24 Wednesday, December 11, 2013: Three routine samples and one special reservoir  
25 sample were collected. All four samples were found to be absent for total coliform  
26 bacteria. HPCs ranged from non-detect to 10 MPN/mL. Chlorine residuals ranged

1 from 0.2 to 0.4 mg/L at the routine sample sites, and measured 0.58 mg/L at the  
2 reservoir.

3

4 **Wednesday, December 18, 2013:** Three routine total coliform samples and one  
5 special reservoir sample were collected. All three routine samples (Navy, Visitor  
6 Processing, and Unit IV) were found to be total coliform-positive, but absent for *E.coli*.  
7 HPCs ranged from 1 to 6 MPN/mL. Chlorine residuals ranged from 0.2 to 0.82 mg/L  
8 at the routine sample sites, and measured 0.58 mg/L at the reservoir.

9

10 **Thursday, December 19, 2013:** CRC notified the Department of the coliform positive  
11 results by email and also notified the City in compliance with the Groundwater Rule  
12 triggered source water sampling requirement. CRC was determined to be in violation  
13 of the total coliform MCL for the month of December 2013 with more than one total  
14 coliform-positive sample collected during the month.

15

16 **Friday, December 20, 2013:** CRC collected three repeat samples for each routine  
17 total coliform positive, for a total of nine samples. All nine samples were found to be  
18 absent for total coliform bacteria. HPCs ranged from non-detect to 3,250 MPN/mL  
19 (Visitor Processing sample site), and chlorine residuals ranged from non-detect (<0.1  
20 mg/L) to 0.88 mg/L. The two source water samples collected by the City on  
21 December 19, 2013, were absent for total coliform bacteria and *E.coli*.

22

23 **Monday, December 23, 2013:** Three routine samples and one special reservoir  
24 sample were collected. All four samples were found to be absent for total coliform  
25 bacteria. HPCs ranged from non-detect to 33 MPN/mL. Chlorine residuals ranged  
26 from 0.13 to 0.2 mg/L at the routine sample sites, and measured 0.28 mg/L at the  
27 reservoir.



1 **Monday, December 30, 2013:** Three routine samples and one special reservoir  
2 sample were collected. One routine sample (Plant Ops) was found to be total  
3 coliform-positive but absent for *E.coli*. HPCs ranged from 8 to 73 MPN/mL. Chlorine  
4 residuals ranged from non-detect (at Plant Ops) to 0.12 mg/L at the routine sample  
5 sites, and measured 0.26 mg/L at the reservoir.

6  
7 **Tuesday, December 31, 2013:** CRC informed the Department and the City of the  
8 routine coliform-positive sample and collected three repeat samples and a special  
9 sample (at the Western Ave. connection) for total coliform analysis. All three repeat  
10 samples and the special sample were found to be absent for total coliform bacteria,  
11 with chlorine residuals detected from 0.22 to 0.23 mg/L. The chlorine residual  
12 measured at the Western Ave. connection was 0.97 mg/L. HPC analysis was not  
13 completed for the samples. The two source water sample(s) collected by the City  
14 December 31, 2013, were absent for total coliform bacteria and *E.coli*. With only 19  
15 of the total of 32 distribution system samples collected for the month containing a  
16 detectable residual, CRC is also in violation of the residual disinfectant requirement  
17 for the month of December 2013.

18  
19 A summary of CRC's compliance status with the chlorine residual requirement since  
20 the October 2011 TCR MCL violation is provided below.

21  
22 **November 2011:** Of the 15 routine distribution system samples and five special  
23 reservoir samples collected for coliform analysis, 16 (80 percent) met the minimum  
24 disinfectant residual requirement with levels ranging from 0.23 to 1.1 mg/L.

25  
26 **July 2012:** Of the 15 routine distribution system samples, five special reservoir  
27 samples, and three repeat distribution system samples collected for coliform analysis,

1 21 (87.5 percent) met the minimum disinfectant residual requirement with levels  
2 ranging from 0.35 to 1.25 mg/L.

3

4 **December 2012:** Of the 12 routine distribution system samples and four special  
5 reservoir samples collected for coliform analysis, 7 (58 percent) met the minimum  
6 disinfectant residual requirement with levels ranging from 0.2 to 2.2 mg/L.

7

8 **March 2013:** Of the 12 routine distribution system samples, four special reservoir  
9 samples collected for coliform analysis, 14 (87.5 percent) met the minimum  
10 disinfectant residual requirement with levels ranging from 0.24 to 1.4 mg/L.

11

12 **October 2013:** Of the 15 routine distribution system samples and five special  
13 reservoir samples collected for coliform analysis, 18 (90 percent) met the minimum  
14 disinfectant residual requirement with levels ranging from 0.2 to 3.5 mg/L.

15

16 **December 2013:** Of the 15 routine distribution system samples, five special reservoir  
17 samples, and 12 repeat samples collected for coliform analyses, 19 (59 percent) met  
18 the minimum disinfectant residual requirement with levels ranging from 0.2 to 0.88  
19 mg/L.

20

21 **DISCUSSION OF CONTRIBUTING PROBLEMS, SANITARY HAZARDS AND**  
22 **PUBLIC HEALTH SAFEGUARDS**

23 Due to its aging distribution system and history of distribution system coliform  
24 detections, CRC is required to maintain an adequate disinfectant residual level  
25 throughout the distribution system at all times (Provision No. 12 of CRC's Water  
26 Supply Permit No. 05-20-07P-004). Compliance with this requirement is based on  
27 maintaining a chlorine residual of at least 0.2 mg/L in at least 95 percent of the



1 samples collected monthly. According to available historical monitoring data, chlorine  
2 residuals in the distribution system vary significantly, and have ranged from 0.14 to  
3 1.03 mg/L as measured at different routine bacteriological sampling sites within the  
4 same hour.

5  
6 The difference in chlorine residual levels between routine bacteriological sample sites  
7 is a result of chlorine demand in the distribution system, which CRC attributes to  
8 aging pipes, faulty valves, and high temperature water supplied by the City. CRC  
9 monitors the temperature and chlorine residual at the two connections with the City on  
10 a daily basis for comparison with distribution system chlorine residuals to determine  
11 the extent of chlorine demand in the system. While there is a correlation between  
12 high water temperature and decreased chlorine residual levels, the data indicates that  
13 there are other factors contributing to CRC's water quality problems. According to the  
14 summary of daily temperature and chlorine residual measurements taken by CRC for  
15 December 2013 ([Attachment No. 2](#)), the temperature of the water supplied by the City  
16 on December 18 and 30, 2013, was higher than normal, and above average for the  
17 month; however, chlorine residuals were detected above 0.2 mg/L at all routine  
18 distribution bacteriological sampling sites on December 18<sup>th</sup> but were almost non-  
19 detectable (< 0.12 mg/L) in all routine distribution system sites sampled on December  
20 30<sup>th</sup>. Although the distribution system is looped in general, there appears to be areas  
21 with stagnant water conditions that contribute to the degradation of water quality.  
22 CRC has seen an increase in disinfection byproduct levels in the system as a result of  
23 prolonged detention time of water in the system and increased chlorine contact time.

24  
25 In response to citations issued by the Department in recent months concerning on-  
26 going DBP violations, CRC has committed to replacing multiple broken valves to  
27 facilitate better water flow throughout the system. Improving water flow should

1 mitigate some of the water quality issues such as DBPs by reducing water detention  
2 time and chlorine contact time. Making the necessary operational and infrastructural  
3 changes to facilitate better water flow through the system should reduce chlorine  
4 demand in the pipes and enable CRC to better control bacteriological growth by  
5 maintaining a more effective disinfectant residual throughout the distribution system.

6

7 **DIRECTIVES**

8 CRC is hereby directed to take the following actions:

9

10 1. Forthwith, CRC shall cease and desist from failing to comply with the Primary  
11 Drinking Water Standard for bacteriological water quality.

12

13 2. Forthwith, CRC shall maintain a minimum chlorine residual of 0.2 mg/L throughout  
14 the distribution system pursuant to Provision No. 12 of Domestic Water Supply  
15 Permit No. 05-20-07P-004. Chlorine residual samples shall be collected at  
16 Reservoir No. 1 and at each coliform sample site monitored under the Total  
17 Coliform Rule. Compliance with this Provision shall be based upon meeting the 0.2  
18 mg/L residual in at least 95 percent of the samples collected each month.

19

20 3. CRC shall include information regarding the December 2013 Total Coliform Rule  
21 violation in its next Consumer Confidence Report, which must be completed and  
22 distributed to staff and inmates before July 1, 2014. A draft of the Consumer  
23 Confidence Report shall be submitted to the Department for review and approval  
24 prior to distribution and/or posting.

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4. Within 30 days of receipt of this citation, CRC shall provide a written response with an update on the status of the valve replacement project.

All submittals required by this Citation shall be sent to:

J. Steven Williams, P.E.  
District Engineer  
Department of Public Health  
Division of Drinking Water and Environmental Management  
1350 Front Street, Room 2050  
San Diego, CA 92101

**CIVIL PENALTY**

Subsections 116650 (d) and (e) of the H&S Code allows for the assessment of an administrative penalty for failure to comply with requirements of the California Safe Drinking Water Act. Failure to comply with any provision of this citation may result in the Department imposing a civil penalty of up to \$1,000 (one thousand dollars) per day as of the date of violation of any provision of this citation.

1-21-2014

Date



J. Steven Williams, P.E.,  
District Engineer  
Drinking Water Field Operations Branch  
Department of Public Health

1 Attachments:

2

3

1. December 2013 Coliform Laboratory Results

4

2. Summary of December 2013 Daily Chlorine Residual and Temperature  
Sample Results

5

6

7

cc: County of Riverside, Department of Environmental Health

8

9

Deanna Rogers, Capital Outlay Analyst, Department of Corrections and  
Rehabilitation, Facilities Management Division, Capital Outlay Section, P.O.  
Box 942883, Sacramento, CA 94283-0001

10

11

12

13

Kimberly Hughes, Associate Warden – Business Services, California  
Rehabilitation Center - Norco, P.O. Box 1841, Norco, CA 92860-0991

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David Huskey, Correctional Plant Manager A, California Rehabilitation Center -  
Norco, P.O. Box 1841, Norco, CA 92860-0991

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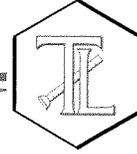
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Attachment No. 1

# TRUESDAIL LABORATORIES, INC.

EXCELLENCE IN INDEPENDENT TESTING



Established 1931

14201 FRANKLIN AVENUE  
TUSTIN, CALIFORNIA 92780-7008  
(714) 730-6239 · FAX (714) 730-6462  
www.truesdail.com

## REPORT

**Client:** California Rehabilitation Center

5th and Western Avenue

Norco, CA 91760

Attention: Singh Rai

Project Name: Weekly Routine

Project Number: Agmnt #5600003884

P.O. Number: 4400002277

Release Number:

Laboratory No. 811186

Page 1 of 6

Printed 12/27/2013

Samples Received on 12/4/2013 2:40:00 PM

Field ID	Lab ID	Collected	Matrix
Plant Ops	811186-001	12/04/2013 08:30	W
Unit IV	811186-002	12/04/2013 09:00	W
Navy	811186-003	12/04/2013 09:45	W
Reservoir	811186-004	12/04/2013 10:15	W

**Comments:**

MBAS and Total Coliforms analyzed by Maria Mangarova. HPC analyzed by Paymon Abri. TDS and Specific Conductivity analyzed by Jenny Tankunakorn. pH analyzed by Himani Vaishnav. General Physical analyzed by Felipe Mendoza.

### Coliform P/A Test - Colisure (24h)

Batch ColisurePA 12/4/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811186-001 Coliforms, Total	P/A/100mL	12/05/2013 15:00	1.00	1.00	1.00	Abse00
811186-002 Coliforms, Total	P/A/100mL	12/05/2013 15:00	1.00	1.00	1.00	Abse00
811186-003 Coliforms, Total	P/A/100mL	12/05/2013 15:00	1.00	1.00	1.00	Abse00
811186-004 Coliforms, Total	P/A/100mL	12/05/2013 15:00	1.00	1.00	1.00	Abse00

### Heterotrophic Plate Count HPC SM 9215B

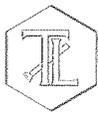
Batch HPC-PCA 12/4/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811186-001 Plate Count	CFU/mL	12/06/2013 15:00	1.00	1.00	1.00	19
811186-002 Plate Count	CFU/mL	12/06/2013 15:00	1.00	1.00	1.00	21
811186-003 Plate Count	CFU/mL	12/06/2013 15:00	1.00	1.00	1.00	2
811186-004 Plate Count	CFU/mL	12/06/2013 15:00	1.00	1.00	1.00	2

#### Method Blank

Parameter	Unit	DF	Result
Plate Count	CFU/n	1	ND

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.



Client: California Rehabilitation Center

Project Name: Weekly Routine

Page 4 of 6

Project Number: Agmnt #5600003884

Printed 12/27/2013

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Turbidity	NTU	1.00	7.63	8.00	95.4	90 - 110
Color, Apparent	CU	1.00	9.00	10.0	90.0	90 - 110

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Color, Apparent	CU	1.00	9.00	10.0	90.0	90 - 110

Residual Chlorine

Batch R-CI 12/4/2013 CRC

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811186-001 Chlorine Residual	mg/L	12/04/2013	1	0.500	0.100	0.200
811186-002 Chlorine Residual	mg/L	12/04/2013	1	0.500	0.100	0.680
811186-003 Chlorine Residual	mg/L	12/04/2013	1	0.500	0.100	0.210
811186-004 Chlorine Residual	mg/L	12/04/2013	1	0.500	0.100	0.180

pH by SM 4500-H B

Batch 12PH13D

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811186-001 pH	pH Unit	12/05/2013	1.00	0.0250	4.00	8.02
811186-002 pH	pH Unit	12/05/2013	1.00	0.0250	4.00	7.99
811186-003 pH	pH Unit	12/05/2013	1.00	0.0250	4.00	7.97
811186-004 pH	pH Unit	12/05/2013	1.00	0.0250	4.00	8.00

Duplicate

Lab ID = 811186-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
pH	pH Un	1.00	8.01	8.00	0.125	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH Un	1.00	7.05	7.00	101	90 - 110

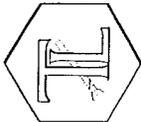
Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH Un	1.00	7.04	7.00	100	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH Un	1.00	7.07	7.00	101	90 - 110

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.



**TRUESDAIL LABORATORIES, INC.**  
 14201 FRANKLIN AVENUE - TUSTIN, CA 92780-7008  
 (714) 730-6239 - FAX (714) 730-6462

**CHAIN OF CUSTODY**

TURNAROUND TIME Normal TAT  
 DATE: 12/4/13 PAGE: 1 OF 1

**811186**

**METHODS**

COMPANY California Rehabilitation Center (CRC)  
 CONTACT Mr. Singh Rai  
 PHONE Direct Line - (951) 737-2683 ext 4470 FAX (951) 273-2342  
 ADDRESS 5th and Western Avenue  
Norco, CA 91760  
 Project: Weekly Routine

SAMPLE I.D.	DATE	TIME	DESCRIPTION	METHODS								COMMENTS	
				Total / Fecal / E coli (P/A)	Heterotrophic Plate Count (HPC)	Color, Odor, Turbidity	Specific Conductance	MBAS	Total Dissolved Solids (TDS)	pH	CL2 Residuals		
Plant Ops	12/4/13	0830		X	X	X	X	X	X	X	X	4	0.20
Warehouse													
Visitor Processing													
Unit IV	12/4/13	0900		X	X	X	X	X	X	X	X	4	0.68
Navy	12/4/13	0945		X	X	X	X	X	X	X	X		0.21
Reservoir	12/4/13	1015		X	X	X	X	X	X	X	X	4	0.18

Rec'd 12/04/13  
 SOC

LABORATORY SAMPLE LOGIN	MYOB Code	Description	Price
(Enter following line items on invoice):			
	21 - Coli (P/A)		5
	21 - HPC		3
	41 - Color		5
	41 - Odor		7
	41 - Turbidity		5
	41 - Elec Conductivity		7
	41 - MBAS		22
	41 - TDS		8
	41 - pH		4
Total			

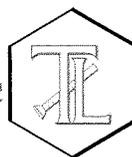
**Chain of Custody Signature Record**

No.	Signature	Company/ Agency	Date/ Time
1.	<i>[Signature]</i>	THL	12-4-13 1130
2.	<i>Mike Brunet</i>	Company/ Agency	12-4-13 1130
3.	<i>Mike Brunet</i>	Company/ Agency	12-4-13 1400
4.	<i>[Signature]</i>	Company/ Agency	
5.	Signature	Company/ Agency	Date/ Time
6.	Signature	Company/ Agency	Date/ Time
7.	Signature	Company/ Agency	Date/ Time

TOTAL NUMBER OF CONTAINERS: 16  
 SAMPLE CONDITIONS: RECEIVED  
 Cool  Warm   
 Yes  No   
 SPECIAL REQUIREMENTS:

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5th and Western Avenue

Norco, CA 91760

Attention: Singh Rai

Project Name: Weekly Routine

Project Number: Agmnt #5600003884

P.O. Number: 4400002277

Release Number:

Laboratory No. 811334

Page 1 of 2

Printed 12/27/2013

Samples Received on 12/11/2013 6:45:00 PM

Field ID	Lab ID	Collected	Matrix
Warehouse	811334-001	12/11/2013 09:15	W
Vistor Processing	811334-002	12/11/2013 09:40	W
Unit IV	811334-003	12/11/2013 08:30	W
Navy	811334-004	12/11/2013 10:00	W
Reservoir	811334-005	12/11/2013 10:30	W

**Comments:**

Total Coliforms analyzed by Maria Managrova. HPC analyzed by Paymon Abri.

### Heterotrophic Plate Count HPC SM 9215B

Batch HPC-PCA 12/11/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811334-001 Plate Count	CFU/mL	12/13/2013 15:30	1	1.00	1.00	10
811334-002 Plate Count	CFU/mL	12/13/2013 15:30	1	1.00	1.00	1
811334-004 Plate Count	CFU/mL	12/13/2013 15:30	1	1.00	1.00	2
811334-005 Plate Count	CFU/mL	12/13/2013 15:30	1	1.00	1.00	ND

#### Method Blank

Parameter	Unit	DF	Result
Plate Count	CFU/n	1	ND

### Coliform P/A Test - Colilert (18h)

Batch ColilertPA 12/11/2013

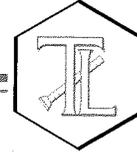
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811334-001 Coliforms, Total	P/A/100mL	12/12/2013 13:30	1	1.00	1.00	Absent
811334-002 Coliforms, Total	P/A/100mL	12/12/2013 13:30	1	1.00	1.00	Absent
811334-004 Coliforms, Total	P/A/100mL	12/12/2013 13:30	1	1.00	1.00	Absent
811334-005 Coliforms, Total	P/A/100mL	12/12/2013 13:30	1	1.00	1.00	Absent

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www.truesdail.com

## REPORT

**Client:** California Rehabilitation Center

5th and Western Avenue

Norco, CA 91760

Attention: Singh Rai

Project Name: Weekly Routine

Project Number: Agmnt #5600003884

P.O. Number: 4400002277

Release Number:

Laboratory No. 811421

Page 1 of 2

Printed 12/27/2013

Samples Received on 12/18/2013 2:00:00 PM

Field ID	Lab ID	Collected	Matrix
Vistor Processing	811421-001	12/18/2013 09:15	W
Unit IV	811421-002	12/18/2013 08:33	W
Navy	811421-003	12/18/2013 09:30	W
Reservoir	811421-004	12/18/2013 10:15	W

**Comments:**

Total Coliform analyzed by Maria Mangarova. HPC analyzed by Paymon Abri.

<b>Coliform P/A Test - Colisure (24h)</b>		Batch ColisurePA 12/18/2013				
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811421-001 Coliforms, Total	P/A/100mL	12/19/2013 14:30	1.00	1.00	1.00	Present
Fecal Coliform		1.00				Absent
811421-002 Coliforms, Total	P/A/100mL	12/19/2013 14:30	1.00	1.00	1.00	Present
Fecal Coliform		1.00				Absent
811421-003 Coliforms, Total	P/A/100mL	12/19/2013 14:30	1.00	1.00	1.00	Present
Fecal Coliform		1.00				Absent
811421-004 Coliforms, Total	P/A/100mL	12/19/2013 14:30	1.00	1.00	1.00	Abse00

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Client: California Rehabilitation Center

Project Name: Weekly Routine

Page 2 of 2

Project Number: Agmnt #5600003884

Printed 12/27/2013

Heterotrophic Plate Count HPC SM 9215B

Batch HPC-PCA 12/18/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811421-001 Plate Count	CFU/mL	12/20/2013 14:30	1.00	1.00	1.00	5
811421-002 Plate Count	CFU/mL	12/20/2013 14:30	1.00	1.00	1.00	6
811421-003 Plate Count	CFU/mL	12/20/2013 14:30	1.00	1.00	1.00	2
811421-004 Plate Count	CFU/mL	12/20/2013 14:30	1.00	1.00	1.00	1

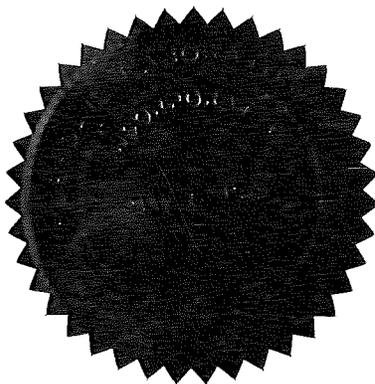
Method Blank

Parameter	Unit	DF	Result
Plate Count	CFU/n	1	ND

Residual Chlorine

Batch R-Cl 12/18/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811421-001 Chlorine Residual	mg/L	12/18/2013	1	0.500	0.100	0.200
811421-002 Chlorine Residual	mg/L	12/18/2013	1	0.500	0.100	0.380
811421-003 Chlorine Residual	mg/L	12/18/2013	1	0.500	0.100	0.820
811421-004 Chlorine Residual	mg/L	12/18/2013	1	0.500	0.100	0.580



Respectfully submitted,  
TRUESDAIL LABORATORIES, INC.

Shelly Brady  
Project Manager



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## REPORT

**Client:** California Rehabilitation Center

5th and Western Avenue  
Norco, CA 91760

Attention: Singh Rai

Project Name: Weekly /Retest for 12/18/13

Project Number: Agmt #5600003884

P.O. Number: 4400002277

Release Number:

Laboratory No. 811478

Page 1 of 2

Printed 12/26/2013

Samples Received on 12/20/2013 12:15:00 PM

Field ID	Lab ID	Collected	Matrix
P.R.S	811478-001	12/20/2013 10:30	W
Reservoir 1	811478-002	12/20/2013 11:10	W
Power House Hose bi	811478-003	12/20/2013 08:35	W
intertie Westen	811478-004	12/20/2013 10:55	W
Visiting Processing	811478-005	12/20/2013 09:30	W
Visiting	811478-006	12/20/2013 09:35	W
Unit IV - Kitchen	811478-007	12/20/2013 09:00	W
Hose bib Between L1-	811478-008	12/20/2013 08:50	W
Walden House N Hos	811478-009	12/20/2013 10:10	W

**Comments:**

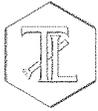
Total Coliform and HPC analyzed by Maria Mangarova.

<b>Heterotrophic Plate Count HPC SM 9215B</b>		Batch HPC-PCA 12/20/2013				
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811478-001 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	410
811478-002 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	9
811478-003 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	380
811478-004 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	ND
811478-005 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	3250
811478-006 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	850
811478-007 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	1100
811478-008 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	170
811478-009 Plate Count	CFU/mL	12/23/2013 09:00	1	1.00	1	1300

**Method Blank**

Parameter	Unit	DF	Result
Plate Count	CFU/n	1	ND

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Client: California Rehabilitation Center

Project Name: Weekly /Retest for 12/18/13

Page 2 of 2

Project Number: Agmt #5600003884

Printed 12/26/2013

Coliform P/A Test - Colisure (24h)

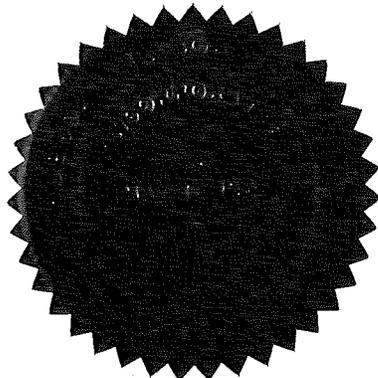
Batch ColisurePA 12/20/2013

Table with 7 columns: Parameter, Unit, Analyzed, DF, MDL, RL, Result. Contains 9 rows of Coliforms, Total data.

Residual Chlorine

Batch R-CI 12/20/2013

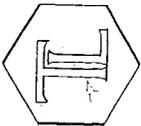
Table with 7 columns: Parameter, Unit, Analyzed, DF, MDL, RL, Result. Contains 9 rows of Chlorine Residual data.



Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Handwritten signature of Shelly Brady

Shelly Brady
Project Manager



**TRUESDAIL LABORATORIES, INC.**  
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# CHAIN OF CUSTODY

X TURNAROUND TIME Normal TAT  
 DATE: 12-10-13 PAGE: 1 OF 1

**811478**

## METHODS

COMPANY: California Rehabilitation Center (CRC)  
 CONTACT: Mr. Singh Rai  
 PHONE: Direct Line - (951) 737-2683 ext 4470 FAX (951) 273-2342  
 ADDRESS: 5th and Western Avenue  
 Norco, CA 91760  
 Project: Weekly Routine

SAMPLE I.D.	DATE	TIME	DESCRIPTION
P.R.S	12-20-13	1030	
Reservoir 1	"	1110	
Powerhouse Reservoir	"	0835	
Inertial Western	"	1055	
Visiting Processing	"	0930	
Visiting	"	0935	
Unit 1 Kitchen	"	0900	
House in between 1 & 2	"	0850	
Walden House, West 10	"	1010	

LABORATORY SAMPLE LOGIN (Enter following line items on invoice):	MYOB Code	Description	Price
21 - Coli (P/A)	5		
21 - HPC	3		
41 - Color	5		
41 - Odor	7		
41 - Turbidity	5		
41 - Elec Conductivity	7		
41 - MBAS	22		
41 - TDS	8		
41 - pH	4		
Total			

### Chain of Custody Signature Record

1. <i>[Signature]</i>	Signature	CRC	Company/ Agency	12-20-13/1110	Date/ Time
2. <i>[Signature]</i>	Signature		Company/ Agency		Date/ Time
3. <i>[Signature]</i>	Signature		Company/ Agency		Date/ Time
4. _____	Signature		Company/ Agency		Date/ Time
5. _____	Signature		Company/ Agency		Date/ Time
6. _____	Signature		Company/ Agency		Date/ Time
7. _____	Signature		Company/ Agency		Date/ Time

NUMBER OF CONTAINERS	COMMENTS
2	CL2 Residuals
2	0.16
2	0.43
2	1.05
2	0.88
2	0.06
2	0.01
2	0.21
2	0.14
2	0.06
18	TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS:

RECEIVED

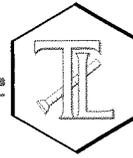
Cool  Warm

Yes  No

SPECIAL REQUIREMENTS:

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## REPORT

**Client: California Rehabilitation Center**

5th and Western Avenue

Norco, CA 91760

Attention: Singh Rai

Project Name: Weekly Routine

Project Number: Agmnt #5600003884

P.O. Number: 4400002277

Release Number:

Laboratory No. 811486

Page 1 of 2

Printed 12/27/2013

Samples Received on 12/23/2013 12:00:00 PM

Field ID	Lab ID	Collected	Matrix
Plant Ops	811486-001	12/23/2013 08:30	W
Warehouse	811486-002	12/23/2013 09:30	W
Navy	811486-003	12/23/2013 10:15	W
Reservoir	811486-004	12/23/2013 10:30	W

**Comments:**

Total Coliform and HPC analyzed by Maria Mangarova.

### Coliform P/A Test - Colisure (24h)

Batch ColisurePA 12/23/2013

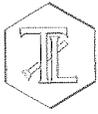
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811486-001 Coliforms, Total	P/A/100mL	12/24/2013 12:30	1.00	1.00	1.00	Abse00
811486-002 Coliforms, Total	P/A/100mL	12/24/2013 12:30	1.00	1.00	1.00	Abse00
811486-003 Coliforms, Total	P/A/100mL	12/24/2013 12:30	1.00	1.00	1.00	Abse00
811486-004 Coliforms, Total	P/A/100mL	12/24/2013 12:30	1.00	1.00	1.00	Abse00

### Heterotrophic Plate Count HPC SM 9215B

Batch HPC-PCA 12/23/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811486-001 Plate Count	CFU/mL	12/26/2013 10:00	1.00	1.00	1.00	ND
811486-002 Plate Count	CFU/mL	12/26/2013 10:00	1.00	1.00	1.00	33
811486-003 Plate Count	CFU/mL	12/26/2013 10:00	1.00	1.00	1.00	1
811486-004 Plate Count	CFU/mL	12/26/2013 10:00	1.00	1.00	1.00	3

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Client: California Rehabilitation Center

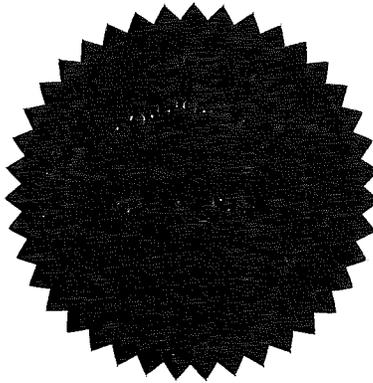
Project Name: Weekly Routine  
Project Number: Agmnt #5600003884

Page 2 of 2  
Printed 12/27/2013

**Residual Chlorine**

Batch R-CI 12/23/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811486-001 Chlorine Residual	mg/L	12/23/2013	1	0.500	0.100	0.200
811486-002 Chlorine Residual	mg/L	12/23/2013	1	0.500	0.100	0.130
811486-003 Chlorine Residual	mg/L	12/23/2013	1	0.500	0.100	0.190
811486-004 Chlorine Residual	mg/L	12/23/2013	1	0.500	0.100	0.280



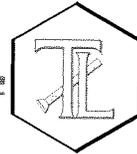
Respectfully submitted,  
**TRUESDAIL LABORATORIES, INC.**

Shelly Brady  
Project Manager



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## REPORT

**Client: California Rehabilitation Center**

5th and Western Avenue

Norco, CA 91760

Attention: Singh Rai

Project Name: Weekly Routine

Project Number: Agmnt #5600003884

P.O. Number: 4400002277

Release Number:

Laboratory No. 811551

Page 1 of 2

Printed 1/6/2014

Samples Received on 12/30/2013 2:00:00 PM

Field ID	Lab ID	Collected	Matrix
Plant Ops	811551-001	12/30/2013 09:00	W
Unit IV	811551-002	12/30/2013 10:00	W
Navy	811551-003	12/30/2013 10:30	W
Reservoir	811551-004	12/30/2013 12:40	W

**Comments:**

Total Coliforms and HPC analyzed by Paymon Abri.

<b>Heterotrophic Plate Count HPC SM 9215B</b>		Batch HPC-PCA 12/30/2013				
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811551-001 Plate Count	CFU/mL	01/02/2014 09:00	1.00	1.00	1.00	73
811551-002 Plate Count	CFU/mL	01/02/2014 09:00	1.00	1.00	1.00	40
811551-003 Plate Count	CFU/mL	01/02/2014 09:00	1.00	1.00	1.00	53
811551-004 Plate Count	CFU/mL	01/04/2014 09:00	1.00	1.00	1.00	8

<b>Coliform P/A Test - Colilert (18h)</b>		Batch ColilertPA 12/30/2013				
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811551-001 Coliforms, Total	P/A/100mL	12/31/2013 11:00	1.00	1.00	1.00	Present
Fecal Coliform		1.00				Absent
811551-002 Coliforms, Total	P/A/100mL	12/31/2013 11:00	1.00	1.00	1.00	Absent
811551-003 Coliforms, Total	P/A/100mL	12/31/2013 11:00	1.00	1.00	1.00	Absent
811551-004 Coliforms, Total	P/A/100mL	12/31/2013 11:00	1.00	1.00	1.00	Absent

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Client: California Rehabilitation Center

Project Name: Weekly Routine

Page 2 of 2

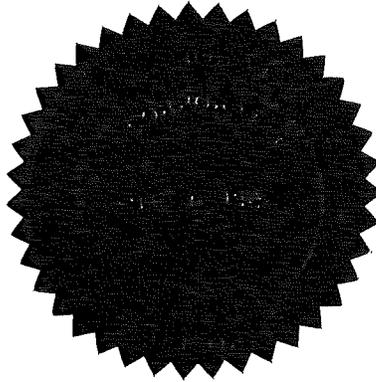
Project Number: Agmnt #5600003884

Printed 1/6/2014

**Residual Chlorine**

Batch R-CI 12/30/2013

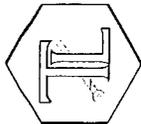
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811551-001 Chlorine Residual	mg/L	12/30/2013	1	0.500	0.0200	0.0400
811551-002 Chlorine Residual	mg/L	12/30/2013	1	0.500	0.0200	0.0700
811551-003 Chlorine Residual	mg/L	12/30/2013	1	0.500	0.0200	0.120
811551-004 Chlorine Residual	mg/L	12/30/2013	1	0.500	0.0200	0.260



Respectfully submitted,

**TRUESDAIL LABORATORIES, INC.**

Shelly Brady  
Project Manager



**TRUESDAIL LABORATORIES, INC.**  
 14201 FRANKLIN AVENUE - TUSTIN, CA 92780-7008  
 (714) 730-6239 - FAX (714) 730-6462

# CHAIN OF CUSTODY

# 811551

TURNAROUND TIME Normal TAT  
 DATE: 12-30-13 PAGE: 1 OF 1

## METHODS

COMPANY California Rehabilitation Center (CRC)		CONTACT Mr. Singh Rai		PHONE Direct Line - (951) 737-2683 ext 4470 FAX (951) 273-2342		ADDRESS 5th and Western Avenue Norco, CA 91760		Project: Weekly Routine	
SAMPLES (SIGNATURE)		DATE		TIME		DESCRIPTION			
Plant Ops		12-30-13		0900		Total / Fecal / E coli (P/A)			
Warehouse						Heterotrophic Plate Count (HPC)			
Visitor Processing						Color, Odor, Turbidity			
Unit IV		12-30-13		1000		Specific Conductance			
Navy		12-30-13		1030		MBAS			
Reservoir		12-30-13		1240		Total Dissolved Solids (TDS)			
						pH			
						CL2 Residuals			

LABORATORY SAMPLE LOGIN (Enter following line items on invoice):		MYOB Code		Description		Price	
1. <u>12-30-13 1245</u>		21 - Coli (P/A)		21 - Coli (P/A)		5	
2. <u>12-30-13 1245</u>		21 - HPC		21 - HPC		3	
3. <u>12-30-13 4:00</u>		41-Color		41-Color		5	
4. <u>12-30-13 4:00</u>		41-Odor		41-Odor		7	
5. <u>12-30-13 4:00</u>		41-Turbidity		41-Turbidity		5	
6. <u>12-30-13 4:00</u>		41 - Elec Conductivity		41 - Elec Conductivity		7	
7. <u>12-30-13 4:00</u>		41 - MBAS		41 - MBAS		22	
8. <u>12-30-13 4:00</u>		41 - TDS		41 - TDS		8	
9. <u>12-30-13 4:00</u>		41 - pH		41 - pH		4	
10. <u>12-30-13 4:00</u>		Total		Total		4	

## Chain of Custody Signature Record

1. <u>[Signature]</u>	Company/ Agency	<u>12-30-13 1245</u>	Date/ Time
2. <u>Mike Brunet</u>	Company/ Agency	<u>12-30-13 12:45</u>	Date/ Time
3. <u>Mike Brunet</u>	Company/ Agency	<u>12-30-13 4:00</u>	Date/ Time
4. <u>[Signature]</u>	Company/ Agency	<u>12-30-13 4:00</u>	Date/ Time
5. <u>[Signature]</u>	Company/ Agency	<u>12-30-13 4:00</u>	Date/ Time
6. <u>[Signature]</u>	Company/ Agency	<u>12-30-13 4:00</u>	Date/ Time
7. <u>[Signature]</u>	Company/ Agency	<u>12-30-13 4:00</u>	Date/ Time

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS:

RECEIVED  
 Cool  Warm   
 Yes  No   
1.1°C

SPECIAL REQUIREMENTS:

See Sample Conditions  
 See Form Attached

COMMENTS

NUMBER OF CONTAINERS

Price

LABORATORY SAMPLE LOGIN

CL2 Residuals

4 0.04

4 0.07

4 0.12

4 0.26

5

3

5

7

5

7

22

8

4

4

4

4

5

3

5

7

5

7

22

8

4

4

4

4

4

4

4

4

4

Rec'd 12/30/13

S<sub>9c</sub> 811551

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## REPORT

**Client: California Rehabilitation Center**

5th and Western Avenue

Norco, CA 91760

Attention: Singh Rai

Project Name: Week 5 Resample

Project Number: Agmnt #5600003884

P.O. Number: 4400002277

Release Number:

Laboratory No. 811560

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Printed 1/6/2014

Samples Received on 12/31/2013 4:10:00 PM

Field ID	Lab ID	Collected	Matrix
Plant Operations	811560-001	12/31/2013 12:00	W
Pressure Reducing	811560-002	12/31/2013 12:45	W
Fac 1 Hose Bib	811560-003	12/31/2013 12:15	W
Inertie Western St	811560-004	12/31/2013 12:30	W

**Comments:**

Total Coliform analyzed by Paymon Abri.

### Coliform P/A Test - Colisure (24h)

Batch ColisurePA 12/31/2013

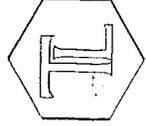
Parameter	Unit	Analyzed	DF	MDL	RL	Result
811560-001 Coliforms, Total	P/A/100mL	01/01/2014 14:15	1	1.00	1.00	Abse00
811560-002 Coliforms, Total	P/A/100mL	01/01/2014 14:15	1	1.00	1.00	Abse00
811560-003 Coliforms, Total	P/A/100mL	01/01/2014 14:15	1	1.00	1.00	Abse00
811560-004 Coliforms, Total	P/A/100mL	01/01/2014 14:15	1	1.00	1.00	Abse00

### Residual Chlorine

Batch R-Cl 12/31/2013

Parameter	Unit	Analyzed	DF	MDL	RL	Result
811560-001 Chlorine Residual	mg/L	12/31/2013	1	0.500	0.100	0.220
811560-002 Chlorine Residual	mg/L	12/31/2013	1	0.500	0.100	0.230
811560-003 Chlorine Residual	mg/L	12/31/2013	1	0.500	0.100	0.220
811560-004 Chlorine Residual	mg/L	12/31/2013	1	0.500	0.100	0.970

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.



**TRUESDAIL LABORATORIES, INC.**  
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**CHAIN OF CUSTODY**  
**811560**

X TURNAROUND TIME Normal TAT  
 DATE: 12-31-13 PAGE: 1 OF 1

**METHODS**

COMPANY	CONTACT	PHONE	ADDRESS	SAMPLES (SIGNATURE)	SAMPLE I.D.	DATE	TIME	DESCRIPTION	Total / Fecal / E coli (P/A)	Heterotrophic Plate Count (HPC)	Color, Odor, Turbidity	Specific Conductance	MBAS	Total Dissolved Solids (TDS)	pH	NUMBER OF CONTAINERS	COMMENTS
California Rehabilitation Center (CRG)	Mr. Singh Rai	Direct Line - (951) 737-2683 ext 4470 FAX (951) 273-2342	5th and Western Avenue Norco, CA 91760	<i>[Signature]</i>					X	X	X	X	X	X	X	2	CL2 Residuals
					PLANTOPORAINS	12-31-13	1200		X	X	X	X	X	X	X	2	0.22
					Presumptive coliforms	"	1245		X	X	X	X	X	X	X	2	0.23
					Escherichia coli	"	1215		X	X	X	X	X	X	X	2	0.22
					Free Chlorine	"	1230		X	X	X	X	X	X	X	2	0.99

Chain of Custody Signature Record		MYOB Code	Description	Price	LABORATORY SAMPLE LOGIN (Enter following line items on invoice):	
Signature	Date/Time				MYOB Code	Description
<i>[Signature]</i>	12-31-13/1310	CRG	Company/ Agency	5	21 - Coli (P/A)	
<i>[Signature]</i>	12-31-13 1310	THI	Company/ Agency	3	21 - HPC	
<i>[Signature]</i>	12-31-13 2110	THI	Company/ Agency	5	41 - Color	
				7	41 - Odor	
				5	41 - Turbidity	
				7	41 - Elec Conductivity	
				22	41 - MBAS	
				8	41 - TDS	
				4	41 - pH	
					Total	

TOTAL NUMBER OF CONTAINERS

SAMPLE CONDITIONS:

RECEIVED

Cool  Warm

Yes  No

SPECIAL REQUIREMENTS:

Attachment No. 2

### December 2013 Chlorine and Temperature Measurements

	5th Street			Western			Reservoir 1		Warehouse			Unit IV			Plant Ops		
DEC 2013	Temp (°C)	Temp (°F)	Cl2	Temp (°C)	Temp (°F)	Cl2	Temp (°F)	Cl2	Temp (°F)	Cl2	TTHM	Temp (°F)	Cl2	TTHM	Temp (°F)	Cl2	TTHM
2	22.1	71.8	0.05	21.5	70.7	0.06											
3	31.5	88.7	1.27	32.9	91.2	1.46											
4	33.4	92.1	0.8	29.3	84.7	0.67		0.18					0.68			0.2	
5	24	75.2	0.32	25	77.0	0.17											
6	21.7	71.1	0.43	22.7	72.9	0.14											
9	19.3	66.7	0.57	24.1	75.4	0.12											
10	19.5	67.1	0.72	20.2	68.4	0.59											
11	20.3	68.5	0.9	19.2	66.6	0.42		0.58		0.2	<b>33.4</b>		0.21	<b>30.1</b>			
12	19.7	67.5	0.87	21.5	70.7	0.4											
13	18.9	66.0	0.09	20.7	69.3	0.12											
16	23.1	73.6	0.73	32	89.6	1.5											
17	33.7	92.7	0.74	36.1	97.0	0.98											
18	35.5	95.9	0.7	36.3	97.3	0.93		0.58					0.38				
19	26.8	80.2	0.33	27.4	81.3	2											
20	22.4	72.3	1.42	31.4	88.5	0.88		0.43					0.21				
23	22.6	72.7	0.53	28.9	84.0	0.28		0.28		0.13						0.2	
24	35.8	96.4	1.21	35.8	96.4	1.17											
26	22.3	72.1	0.39	22.6	72.7	0.32											
27	33	91.4	0.58	36.2	97.2	0.67											
30	34.5	94.1	0.63	35.3	95.5	0.8		0.26					0.07			0.04	
31	34.5	94.1	0.97	36.1	97.0	1.13										0.22	
<b>Average</b>	<b>26.4</b>	<b>79.5</b>	<b>0.68</b>	<b>28.3</b>	<b>83.0</b>	<b>0.71</b>											
<b>Range</b>	<b>(18.9 - 35.8)</b>	<b>(66 - 96.4)</b>	<b>(0.05 - 1.42)</b>	<b>(19.2 - 36.3)</b>	<b>(66.6 - 97.3)</b>	<b>(0.06 - 2)</b>											