

1 **STATE OF CALIFORNIA**

2 **DEPARTMENT OF PUBLIC HEALTH**

3  
4 In Re: United States Navy - San Clemente Island  
5 Water System No. 3710707  
6

7  
8  
9 To: Luis Perez  
10 Environmental Program Director  
11 Environmental Division, Naval Base Coronado PWO Bldg 3  
12 PO Box 357088  
13 San Diego, CA 92135-708  
14

15 **CITATION FOR NONCOMPLIANCE**

16 **Citation No. 05-14-13C-003**

17 **Issued on February 8, 2013**

18  
19 Section 116650, Chapter 4, Part 12, Division 104 of the California Health and Safety Code  
20 (H&S Code), authorizes the California Department of Public Health, Division of Drinking  
21 Water and Environmental Management (CDPH) to issue a citation for failure to comply  
22 with the requirements of Chapter 4, the California Safe Drinking Water Act, or any  
23 regulation, permit, standard, citation, or order issued or adopted thereunder.  
24

25 **VIOLATION**

26 CDPH has determined that United States Navy potable water system on San Clemente  
27 Island (hereinafter SCI) has violated provisions contained in the H&S Code and Title 22,  
28 California Code of Regulations (CCR). These violations include, but are not limited to, the  
29 following:



- 1
- 2 1. H&S Code, Section 116555(a)(3): Specifically, SCI failed to provide a reliable and
- 3 adequate supply of pure, wholesome, healthful, and potable water.
- 4 2. CCR, Section 64535.2 (a)(3): Specifically, SCI failed to meet the primary drinking water
- 5 standard for the Total Trihalomethanes (TTHM) Maximum Contaminant Level (MCL) in
- 6 the fourth quarter of 2012.
- 7 3. CCR, Section 64537 (d): Specifically, SCI failed to submit an operational evaluation
- 8 report to CDPH within 90 days after being notified of an analytical result that caused
- 9 the operational evaluation level (OEL) exceedance.
- 10

#### 11 **ENFORCEMENT HISTORY**

12

13 On January 6, 2006, CDPH issued a Notice of Violation (NOV) to SCI for exceeding the

14 MCL for TTHMs during the fourth quarter of 2005. SCI failed to comply with the National

15 Primary Drinking Water Regulations for the control of Trihalomethanes in Drinking Water,

16 Code of Federal Regulations, Title 40, Section 141.64(b).

17

18 On August 8, 2006, a Citation for Noncompliance (No. 05-14-06C-0009) was issued for

19 failure to meet the TTHM MCL during the second quarter of 2006.

20 On April 18, 2007, The US Environmental Protection Agency (EPA) issued Administrative

21 Order (AO) PWS-A0-2007-004 for serving water that exceeds the Stage 1 Disinfection

22 Byproduct Rule MCL for TTHM.

23

**BACKGROUND**

San Clemente is an island about 70 miles west of San Diego. The water system on San Clemente Island is owned by the Navy and operated by Navy Public Works. SCI distributes a purchased blend of Colorado River, State Water Project, and local reservoir water that has been treated by either the City of San Diego or the Sweetwater Authority. This treated water is delivered to the island via a barge. On the island the water receives additional treatment in the form of break point chlorination prior to being delivered to a year-round population of approximately 400 via 148 metered service connections. The system maintains four pressure zones with eight treated water reservoirs. There are no interconnections possible with any other water system.

The Stage 1 Disinfection Byproduct Rule (Stage 1 DBPR) started in the first quarter of 2002 and continued through the first quarter of 2012. Stage 1 DBPR applied to community and non-transient non-community water systems that treat their water with a chemical disinfectant in any part of the treatment process or which provide water that contains a chemical disinfectant. SCI adds free chlorine to their water in order to maintain detectable chlorine residual. Based on the system's population size, SCI was required to collect a minimum of one sample in the distribution system per quarter for TTHMs and Haloacetic Acids (HAA5) analysis. However, due to complexity of the system, SCI's Stage 1 Compliance Monitoring Plan required quarterly monitoring at four sites. Under Stage 1 regulations, a public water system shall not exceed the 80 parts per billion (ppb) for TTHM in the drinking water supplied to the public based on a running annual arithmetic average (RAA), computed quarterly, of quarterly arithmetic averages of all samples collected in the



1 distribution system. In the 41-quarter Stage 1 monitoring period, SCI violated the TTHM  
2 MCL RAA nine (9) times. See Enclosure 3: USN SCI Stage 1 DBPR TTHM Chart.

3 The Stage 2 Disinfection Byproduct Rule (Stage 2 DBPR) applies to community and non-  
4 transient non-community water systems that treat their water with a chemical disinfectant  
5 in any part of the treatment process or which provide water that contains a chemical  
6 disinfectant. Community and non-transient non-community water systems, such as SCI,  
7 that purchase water from community systems with a population greater than 100,000,  
8 began monitoring for Stage 2 in the second quarter of 2012. Based on the SCI's  
9 population size, SCI is required to collect a minimum of two samples in the distribution  
10 system per quarter for TTHMs and HAA5 analysis. However, per the CDPH approved  
11 Stage 2 Compliance Monitoring Plan SCI is required to sample for TTHM and HAA5  
12 quarterly at five locations.

13  
14 TTHM monitoring requirements are specified in CCR, Title 22, Section 64534 and 64534.2  
15 and compliance determinations are specified by CCR, Title 22, Section 64535 and  
16 64535.2. A public water system shall not exceed 80 parts per billion (ppb) for TTHM in the  
17 drinking water supplied to the public based on a locational running annual average  
18 (LRAA), the average of sample analytical results for samples taken at a particular  
19 monitoring location during the previous four calendar quarters.

20  
21 Additionally, SCI must also calculate the operational evaluation level (OEL) as defined in  
22 CCR, Title 22, Section 64400.90. As shown in the equation below, the OEL is based on  
23 the sum of the two previous quarters' TTHM results plus twice the current quarter's TTHM  
24 result, divided by four to determine an average.

$$25 \quad OEL = \frac{Quarter1 + Quarter2 + (2 * Quarter3)}{4}$$



1 Per CCR, Title 22, Section 64537.2, Table 64537.2-B, SCI must quarterly provide CDPH  
2 with the location and date, and the calculated LRAA and OEL TTHM levels. If the OEL for  
3 any quarter exceeds TTHM MCL of 80 ppb, then the system is required to perform an  
4 Operational Evaluation and submit an Operational Evaluation report to CDPH as specified  
5 in CCR, Title 22, Section 64534.2(d)(6). Per CCR, Title 22, Section 64537(d) SCI must  
6 submit a written report of the evaluation to CDPH no later than 90 days after being notified  
7 by the laboratory of the analytical result that caused the OEL exceedance.

8  
9 Per CCR, Title 22, Section 64535.2 (a)(3), if the average of the first three-quarters of  
10 Stage 2 monitoring is in excess of 1.33 times the TTHM MCL (e.g. 110 ppb), then  
11 regardless of the monitoring results of subsequent quarter the system is in violation of the  
12 TTHM MCL.

### 13 14 **CHRONOLOGY OF EVENTS & CORRECTIVE ACTIONS TAKEN**

15  
16 Under Stage 1 SCI returned to compliance with the TTHM MCL in fourth quarter of 2009  
17 and remained in compliance through the first quarter of 2012, the end of Stage 1 DBPR.  
18 This was accomplished with a series of physical changes to the system and managerial  
19 actions that include the installation of automatic chlorination stations and dynamic  
20 reservoir mixers, and the implementation of flushing and water age reduction programs.

21  
22 The two tables below show the TTHM data for the three quarters of Stage 2 DBPR. Table  
23 1 shows the analysis results for each of SCI's five sampling sites and Table 2 shows the  
24 three quarter averaged LRAA and OEL values for each site calculated per CCR, Title 22,  
25 Section 64535.2 (a)(3) and 64400.90, respectively.

The third quarter monitoring results taken on October 3<sup>rd</sup>, 2012 resulted in SCI violating the 1.33 times the TTHM MCL standard at the Waste Water Treatment Plant (WWTP) and P-Site sampling locations.

Table 1

Sample Site	Second Quarter		Third Quarter	Fourth Quarter
	Sample Date	4/18/12	7/10/12	10/3/12
	Date Submitted to CDPH	7/10/12	10/9/12	1/19/13
Commons	160		80	79
WWTP	200		89	110
P-Site	180		120	140
BUDS	180		79	55
Barge	8.1		17	13

Table 2

Sample Site	Three Quarter Average	Three Quarter OEL Average
Commons	106	<b>100**</b>
WWTP	<b>133*</b>	<b>127**</b>
P-Site	<b>147*</b>	<b>145**</b>
BUDS	105	<b>92**</b>
Barge	13	13

\*Three-quarter average greater than 110 ppb standard

\*\*Three quarter OEL average greater than 80 ppb MCL

All samples were collected at the approved sample location, in accordance with sampling requirements for the Stage 2 DBPR. All samples were submitted to the laboratory within the holding time of the approved analytical method. All results were reported to CDPH, electronically and physically, by the 10th day of the month following receipt of the

1 laboratory results. See Enclosure 2: Laboratory Analytical Results: 2nd Quarter 2012  
2 through 4th Quarter 2012. As shown in Enclosure 2, in November and December of 2012  
3 SCI sampled at all five locations and all samples indicate that the TTHM levels were below  
4 the MCL. In addition to the Stage 1 DBPR TTHM formation potential reduction measures,  
5 since the start of Stage 2 DBPR SCI has implement a communication coordination  
6 program with the City of San Diego and the Sweetwater Authority. This program allows for  
7 active communication on total organic carbon and other water quality characteristic that  
8 impact SCI's TTHM formation potential. These communications with the water suppliers  
9 allow SCI greater flexibility in choosing their source water quality.

10  
11 SCI has not submitted an Operational Evaluation Report as of the date of this citation.  
12  
13

#### 14 **DIRECTIVES**

15 SCI shall hereby comply with the following directives:

- 16 1. Forthwith, cease and desist from failing to comply with the H&S Code, Section  
17 116555(a)(1) and (3) by complying with primary and secondary drinking water  
18 standards and by ensuring that the system is provided with a reliable and adequate  
19 supply of pure, wholesome, healthful, and potable water.  
20
- 21 2. Forthwith, cease and desist from failing to comply with the primary drinking water  
22 standard for TTHMs per CCR, Title 22, Section 64533.  
23
- 24 3. SCI shall continue collecting one compliance sample each quarter for TTHM and HAA5  
25 analysis at the five CDPH approved sampling location. The results shall be reported to

1 CDPH within 10 days after the end of each quarter in accordance with CCR, Title 22,  
2 Section 64537.

3  
4 4. SCI shall give public notice in accordance with CCR, Section 64463.4 within 30 days of  
5 the date of this citation for failure to meet the TTHM MCL for the fourth quarter 2012.  
6 Public notice shall be via 1. mail or direct delivery to each customer, and 2. posting  
7 notice on the internet and/or local newspaper, or 3. alternative public notification plan  
8 approved by CDPH. SCI shall submit a draft notice to CDPH for review and approval  
9 prior to giving public notice.

10  
11 5. Within 10 days of conducting public notifications, a copy of the notice and the "Proof of  
12 Notification" certification shall be submitted to CDPH using the enclosed form, see  
13 Enclosure 1.

14  
15 6. SCI shall repeat public notification every three months for as long as the TTHM MCL  
16 violation continues in accordance with CCR, Section 64463.4.

17  
18 7. By July 1, 2013, SCI shall report the 2012 TTHM MCL violation in its 2012 Consumer  
19 Confidence Report, in accordance with CCR, Section 64481(g)(1).

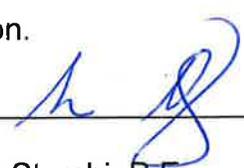
20  
21 8. Within 30 days of the date of issuance of this citation, SCI shall submit an  
22 Operational Evaluation Report to CDPH, in accordance with CCR, Section  
23 64534.2(d)(6).  
24  
25

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

2  
3 Sean Sterchi, P.E.  
4 District Engineer  
5 California Department of Public Health  
6 Drinking Water Program  
7 1350 Front Street, Room 2050  
8 San Diego, CA 92101  
9

10 **CIVIL PENALTY**

11 Sections 116650 (d) and (e) of the Health and Safety Code provides for the assessment of  
12 a penalty for failure to comply with the requirements of the California Safe Drinking Water  
13 Act. Failure to comply with any provision of this citation may result in CDPH imposing a  
14 penalty not to exceed one thousand dollars (\$1,000) per day per violation as of the date of  
15 violation of any provision of this citation.

16 2/8/13 \_\_\_\_\_  \_\_\_\_\_

17 Date Sean Sterchi, P.E.  
18 District Engineer  
19 California Department of Public Health  
20 Drinking Water Program  
21

22 Enclosures: 1) "Proof of Notification" Certification Form

1  
2  
3  
4  
5

2) Laboratory Analytical Results: 2<sup>nd</sup> Quarter 2012 through 4<sup>th</sup> Quarter  
2012

3) USN SCI Stage 1 DBPR TTHM Chart

cc: Mark McPherson, Chief, Land and Water Quality Division, County of San Diego,  
Department of Environmental Health (w/o attachments)

**Drinking Water Notification to Consumers**

**PROOF OF NOTIFICATION**

**Name of Water System:** \_\_\_\_\_

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

\_\_\_\_\_

Consumers Notified \_\_\_\_\_ Yes \_\_\_\_\_ No

If not, Explain: \_\_\_\_\_

\_\_\_\_\_

Date of Notification: \_\_\_\_\_

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

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

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

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

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

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

Dated: \_\_\_\_\_

\_\_\_\_\_  
Signature of Person Serving Notice

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

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



DEPARTMENT OF THE NAVY  
COMMANDER NAVY REGION SOUTHWEST  
937 NO. HARBOR DR.  
SAN DIEGO, CALIFORNIA 92132-0058

IN REPLY REFER TO:  
5090  
Ser N45JWW.tt/008  
January 8, 2013

Sean Sterchi  
California Department of Public Health  
Division of Drinking Water & Environmental Management  
State Building, Room 2050  
1350 Front Street  
San Diego, CA 92101-3609

STATE OF CALIFORNIA  
DEPT. OF PUBLIC HEALTH

JAN - 9 2013

Dear Mr. Sterchi:

SUBJECT: WATER SYSTEM 3710707, SAN CLEMENTE ISLAND TTHM/HAA5  
QUARTERLY DRINKING WATER REPORT - (OCTOBER-DECEMBER  
2012)

Enclosures 1 and 2 provide the quarterly results of Stage 2 total trihalomethanes (TTHM) and total haloacetic acid (HAA5) in drinking water at the Naval Auxiliary Landing Field, San Clemente Island (SCI) (37-707).

In accordance with the Stage 2 Operational Evaluation Level (OEL) Guidance, monitoring data from the first three quarters were used to determine if the individual OELs exceeded the TTHM and HAA5 Maximum Contaminant Levels (MCLs). The TTHM OELs exceeded the MCL, but the HAA5 OELs were less than the MCL. The Navy understands these results trip a requirement to complete and submit an operation evaluation report.

Subsequent to receipt of the first quarter reporting data, during February 2012, Sweetwater Authority changed the source of water normally provided to SCI via the barge, taking both the National City Wells and Sweetwater Desalinization Plant off line for testing without notification to the Navy. Surface water from Perdue Reservoir was then used to fill the SCI barge. During the same period, the SCI barge was scheduled to be offline for cleaning. Therefore, to avoid a water shortage, a larger amount of water than normal was transported to SCI to fill the million gallon tank. The combination of these activities resulted in an unexpected increase in TTHM concentrations.

TTHM concentrations had continued to fluctuate since that time, however, the November and December 2012 concentrations, which have dropped below the 80 µg/L standard at all sample locations, are an indication that TTHM levels are stabilizing and should continue to decrease. The reduced TTHM levels were the

SUBJECT: WATER SYSTEM 3710707, SAN CLEMENTE ISLAND  
 TTHM/HAA5 QUARTERLY DRINKING WATER REPORT -  
 (OCTOBER - DECEMBER 2012)

result of several factors including: 1) better communication and coordination between the SWA and Navy Utilities, 2) lower Total Organic Carbon concentrations in the SWA source water, 3) a reduced volume of water stored at the island (reduced water age), 4) increased flushing of the system, 5) installation of mixers in the storage tanks, and 5) cooler weather conditions. The following table shows monthly TTHM concentrations from April through December 2012.

Building Number	April 18th	May 9th	June 6th	July 10th	August 14 <sup>th</sup>	Sept 5th	Oct 29th	Nov 14th	Dec 5th
60068	160	95	83	79	66	52	55	31	48
60224	200	69	88	120	120	76	140	73	79
60195	180	110	120	89	91	140	110	21	67
61008	180	110	74	80	74	90	79	44	43
Barge	8.1	14	20	17	19	16	13	11	12

In addition to the above measures, the Navy will implement, upon approval of the California Department of Public Health (CDPH), a new SCI Flushing Plan, and add new sampling locations outside of currently designated building at points along the system distribution system.

The cause of the elevated TTHM levels in the NALF SCI system is known and the Navy has taken actions and will be taking additional measures that are expected to maintain TTHM concentrations below the MCL. Therefore, the Navy requests approval for a limited scope for the operational evaluation report.

If you need further information regarding this submittal, please contact Ms. Theresa Trost at (619)532-3709.

Sincerely,



B. S. GORDON  
 By direction

**Stage 2 DBP-Quarterly TTHM Report for Disinfection Byproducts Compliance and Operational Evaluation (in µg/L or ppb)**

System Name: USN San Clemente Island System No.: 3710707 Year: 2012 Quarter: 4th

Year:	2012				2013				2014			
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Quarter:												
Sample Date (month/day):		4/18	7/10	10/3								
Bldg 61008 (Commons Area)		160.0	80.0	79.0								
Bldg 60195 (WWTP)		200.0	89.0	110.0								
Bldg 60224 (P-Site)		180.0	120.0	140.0								
Bldg 60068 (BUDS Camp)		180.0	79.0	55.0								
Barge		8.1	17.0	13.0								
Number of Samples Taken		5	5	5								

(a) **Operational Evaluation Level (OEL)** means the sum of the 2 previous quarter's TTHM results plus twice the current quarter's TTHM result, divided by 4 to determine an average.

Example: 4th Qtr OEL = 
$$\frac{(1st\ Qtr\ TTHM\ result) + (2nd\ Qtr\ TTHM\ result) + [2 \times (3rd\ Qtr\ TTHM\ result)]}{4}$$

(b) **Location Running Annual Average (LRAA)** means the average of TTHM results for samples taken at a particular monitoring location during the previous four calendar quarters.

Example: 4th Qtr LRAA = 
$$\frac{(1st\ Qtr\ TTHM\ result) + (2nd\ Qtr\ TTHM\ result) + (3rd\ Qtr\ TTHM\ result) + (4th\ Qtr\ TTHM\ result)}{4}$$

(c) If OEL exceeds the TTHM MCL, system must conduct an operational evaluation and submit a report to CDPH no later than 90 days after being notified of the analytical result that caused the OEL exceedance. If LRAA exceeds the TTHM MCL, system must conduct public notification.

(d) If any individual quarter's result will cause the LRAA to exceed the TTHM MCL, the system is out of compliance at the end of that quarter.

Comments:

\_\_\_\_\_

Signature

*Theresa Lopez*

1/7/20122

Date

**Stage 2 DBP-Quarterly TTHM Report for Disinfection Byproducts Compliance and Operational Evaluation (in µg/L or ppb)**

System Name: USN San Clemente Island System No.: 3710707 Year: 2012 Quarter: 4th

Year:	2012				2013				2014			
Quarter:	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
<b>Bldg 61008 (Commons Area)</b>		160.0	80.0	79.0								
Running Annual Average												
Meets MCL ?		No	Yes									
Operational Evaluation Level OEL				100								
OEL≤MCL?				No								
<b>Bldg 60195 (WWTP)</b>		200.0	89.0	110.0								
Running Annual Average												
Meets MCL ?		No	No									
Operational Evaluation Level OEL				127								
OEL≤MCL?				No								
<b>Bldg 60224 (P-Site)</b>		180.0	120.0	140.0								
Running Annual Average												
Meets MCL ?		No	No									
Operational Evaluation Level OEL				145								
OEL≤MCL?				No								
<b>Bldg 60068 (BUDS Camp)</b>		180.0	79.0	55.0								
Running Annual Average												
Meets MCL ?		No	Yes									
Operational Evaluation Level OEL				92								
OEL≤MCL?				No								
<b>Barge</b>		8.1	17.0	13.0								
Running Annual Average												
Meets MCL ?		Yes	Yes									
Operational Evaluation Level OEL				13								
OEL≤MCL?				Yes								

*Theresa Lee*

Signature

1/7/2013

**Stage 2 DBP-Quarterly HAA Report for Disinfection Byproducts Compliance and Operational Evaluation (in µg/L or ppb)**

System Name: USN San Clemente Island System No.: 3710707 Year: 2012 Quarter: 4th

Year:	2012				2013				2014				
	Quarter:	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Sample Date (month/day):		4/18	7/10	10/3									
Bldg 61008 (Commons Area)		42.0	28.0	48.0									
Bldg 60195 (WWTP)		39.0	22.0	45.0									
Bldg 60224 (P-Site)		46.0	27.0	36.0									
Bldg 60068 (BUDS Camp)		63.0	36.0	46.0									
Barge		2.6	3.1	6.4									
Number of Samples Taken		5	5	5									

(a) **Operational Evaluation Level (OEL)** means the sum of the 2 previous quarter's HAA results plus twice the current quarter's TTHM result, divided by 4 to determine an average.

Example: 4th Qtr OEL = 
$$\frac{(1st\ Qtr\ HAA\ result) + (2nd\ Qtr\ HAA\ result) + [2 \times (3rd\ Qtr\ HAA\ result)]}{4}$$

(b) **Location Running Annual Average (LRAA)** means the average of HAA results for samples taken at a particular monitoring location during the previous four calendar quarters.

Example: 4th Qtr LRAA = 
$$\frac{(1st\ Qtr\ HAA\ result) + (2nd\ Qtr\ HAA\ result) + (3rd\ Qtr\ HAA\ result) + (4th\ Qtr\ HAA\ result)}{4}$$

(c) If OEL exceeds the HAA MCL, system must conduct an operational evaluation and submit a report to CDPH no later than 90 days after being notified of the analytical result that caused the OEL exceedance. If LRAA exceeds the TTHM MCL, system must conduct public notification.

(d) If any individual quarter's result will cause the LRAA to exceed the HAA MCL, the system is out of compliance at the end of that quarter.

Signature Theresa Gust

Date 1/7/2013

**Stage 2 DBP-Quarterly HAA Report for Disinfection Byproducts Compliance and Operational Evaluation (in µg/L or ppb)**

System Name: USN San Clemente Island System No.: 3710707 Year: 2012 Quarter: 4th

Year:	2012				2013				2014			
Quarter:	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
<b>Bldg 61008 (Commons Area)</b>		42.0	28.0	48.0								
Running Annual Average												
Meets MCL ?		Yes	Yes									
Operational Evaluation Level OEL				42								
OEL≤MCL?				Yes								

<b>Bldg 60195 (WWTP)</b>		39.0	22.0	45.0								
Running Annual Average												
Meets MCL ?		Yes	Yes									
Operational Evaluation Level OEL				38								
OEL≤MCL?				Yes								

<b>Bldg 60224 (P-Site)</b>		46.0	27.0	36.0								
Running Annual Average												
Meets MCL ?		Yes	Yes									
Operational Evaluation Level OEL				36								
OEL≤MCL?				Yes								

<b>Bldg 60068 (BUDS Camp)</b>		63.0	36.0	46.0								
Running Annual Average												
Meets MCL ?		No	Yes									
Operational Evaluation Level OEL				48								
OEL≤MCL?				Yes								

<b>Barge</b>		2.6	3.1	6.4								
Running Annual Average												
Meets MCL ?		Yes	Yes									
Operational Evaluation Level OEL				5								
OEL≤MCL?				Yes								

Comments:

*Theresa Lopez*

Signature

1/7/2013

Date

## ORGANIC CHEMICAL ANALYSIS (9/99)

Date of Report: 12/10/16

Sample ID No. BLDG 60068

Laboratory

Signature Lab

Name: EMAX LABORATORIES, INC.

Director: \_\_\_\_\_

Name of Sampler: SINOCRUZ

Employed By: SHAW ENVIRONMENTAL, INC

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 12/10/03/0905

Received @ Lab: 12/10/04/1440

Completed: 12/10/10

System

System

Name:

Number:

Name or Number of Sample Source:

\*\*\*\*\*

\* User ID: WAT

Station Number: 3710707-903 \*

\* Date/Time of Sample: |12|10|03|0905|

Laboratory Code: 2168 \*

\* YY MM DD TTTT

YY MM DD \*

\*

Date Analysis completed: |12|10|10| \*

\* Submitted by: \_\_\_\_\_

Phone #: \_\_\_\_\_ \*

\*\*\*\*\*

Page 1 of 1

## REGULATED ORGANIC CHEMICALS

TEST	CHEMICAL	ENTRY	ANALYSES	MCL	DLR
METHOD	ALL CHEMICALS REPORTED ug/L	#	RESULTS	ug/L	ug/L
524.2	Total Trihalomethanes (THMs)	82080	< 55	80	
524.2	Bromodichloromethane	32101	7.2		1.0
524.2	Bromoform	32104	27		1.0
524.2	Chloroform (Trichloromethane)	32106	1.7		1.0
524.2	Dibromochloromethane	32105	19		1.0

## ORGANIC CHEMICAL ANALYSIS (9/99)

Date of Report: 12/10/16

Sample ID No. BLDG 60224

Laboratory

Signature Lab

Name: EMAX LABORATORIES, INC.

Director:

Name of Sampler: SINOCRUZ

Employed By: SHAW ENVIRONMENTAL, INC

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 12/10/03/1000

Received @ Lab: 12/10/04/1440

Completed: 12/10/10

System

System

Name:

Number:

Name or Number of Sample Source:

\*\*\*\*\*

\* User ID: WAT

\* Station Number: 3710707-902 \*

\* Date/Time of Sample: |12|10|03|1000|

\* Laboratory Code: 2168 \*

\* YY MM DD TTTT

\* YY MM DD \*

\* Date Analysis completed: |12|10|10| \*

\* Submitted by: \_\_\_\_\_ Phone #: \_\_\_\_\_ \*

\*\*\*\*\*

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## REGULATED ORGANIC CHEMICALS

TEST	CHEMICAL	ENTRY	ANALYSES	MCL	DLR
METHOD	ALL CHEMICALS REPORTED ug/L	#	RESULTS	ug/L	ug/L
524.2	Total Trihalomethanes (TTHMs)	82080	140	80	
524.2	Bromodichloromethane	32101	12		1.0
524.2	Bromoform	32104	84		1.0
524.2	Chloroform (Trichloromethane)	32106	2.9		1.0
524.2	Dibromochloromethane	32105	39		1.0



## ORGANIC CHEMICAL ANALYSIS (9/99)

Date of Report: 12/10/16

Sample ID No. BLDG 61008

Laboratory

Signature Lab

Name: EMAX LABORATORIES, INC.

Director: \_\_\_\_\_

Name of Sampler: SINOCRUZ

Employed By: SHAW ENVIRONMENTAL, INC

Date/Time Sample

Date/Time Sample

Date Analyses

Collected: 12/10/03/1030

Received @ Lab: 12/10/04/1440

Completed: 12/10/10

System

System

Name:

Number:

Name or Number of Sample Source:

\*\*\*\*\*

\* User ID: WAT

Station Number: 3710707-900

\* Date/Time of Sample: |12|10|03|1030|

Laboratory Code: 2168

\* YY MM DD TTTT

YY MM DD

\* Date Analysis completed: |12|10|10|

\* Submitted by: \_\_\_\_\_ Phone #: \_\_\_\_\_

\*\*\*\*\*

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## REGULATED ORGANIC CHEMICALS

TEST	CHEMICAL	ENTRY	ANALYSES	MCL	DLR
METHOD	ALL CHEMICALS REPORTED ug/L	#	RESULTS	ug/L	ug/L
524.2	Total Trihalomethanes (TTHMs)	82080	79	80	
524.2	Bromodichloromethane	32101	3.5		1.0
524.2	Bromoform	32104	56		1.0
524.2	Chloroform (Trichloromethane)	32106	< 1.0		1.0
524.2	Dibromochloromethane	32105	19		1.0



METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 10/03/12
Project     : 3710707 - SCI            Date Received: 10/04/12
Batch No.   : 12J460                   Date Extracted: 10/10/12 14:31
Sample ID   : TRIP BLANKS              Date Analyzed: 10/10/12 14:31
Lab Samp ID: J460-06R                  Dilution Factor: 1
Lab File ID: RJV180                     Matrix          : WATER
Ext Btch ID: V001J09                    % Moisture      : NA
Calib. Ref.: RHV461                     Instrument ID    : T-001
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	ND	0.50	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
TOTAL THM	ND	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.37	10.00	83.7	70-130
4-BROMOFLUOROBENZENE	9.34	10.00	93.4	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client   : NAVY - SHAW PWC           Date Collected: 07/10/12
Project  : 3710707 - SCI             Date Received: 07/11/12
Batch No. : 12G502                  Date Extracted: 07/12/12 18:28
Sample ID: BARGE                    Date Analyzed: 07/12/12 18:28
Lab Samp ID: G502-06                Dilution Factor: 1
Lab File ID: RGV152                 Matrix : WATER
Ext Btch ID: V001G08                % Moisture : NA
Calib. Ref.: RGV089                 Instrument ID : T-001
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	2.2	0.50	0.20
BROMODICHLOROMETHANE	4.4	0.50	0.20
DIBROMOCHLOROMETHANE	5.6	0.50	0.20
BROMOFORM	4.3	0.50	0.30
TOTAL THM	17	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	7.59	10.00	75.9	70-130
BROMOFLUOROBENZENE	8.92	10.00	89.2	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 07/10/12
Project     : 3710707 - SCI            Date Received: 07/11/12
Batch No.   : 12G502                  Date Extracted: 07/12/12 18:00
Sample ID:  BLDG 60023                Date Analyzed: 07/12/12 18:00
Lab Samp ID: G502-05                  Dilution Factor: 1
Lab File ID: RGV151                   Matrix           : WATER
Ext Btch ID: V001G08                  % Moisture      : NA
Calib. Ref.: RGV089                   Instrument ID    : T-001
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	2.5	0.50	0.20
BROMODICHLOROMETHANE	9.0	0.50	0.20
DIBROMOCHLOROMETHANE	18	0.50	0.20
BROMOFORM	23	0.50	0.30
TOTAL THM	53	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	7.89	10.00	78.9	70-130
BROMOFLUOROBENZENE	9.26	10.00	92.6	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 07/10/12
Project    : 3710707 - SC1            Date Received: 07/11/12
Batch No.  : 12G502                   Date Extracted: 07/12/12 17:32
Sample ID  : BLDG 61008               Date Analyzed: 07/12/12 17:32
Lab Samp ID: G502-04                  Dilution Factor: 1
Lab File ID: RGV150                   Matrix          : WATER
Ext Btch ID: V001G08                  % Moisture      : NA
Calib. Ref.: RGV089                   Instrument ID   : T-001
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	2.8	0.50	0.20
BROMODICHLOROMETHANE	13	0.50	0.20
DIBROMOCHLOROMETHANE	30	0.50	0.20
BROMOFORM	34	0.50	0.30
TOTAL THM	80	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	7.57	10.00	75.7	70-130
BROMOFLUOROBENZENE	9.20	10.00	92.0	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 07/10/12
Project     : 3710707 - SCI            Date Received: 07/11/12
Batch No.   : 12G502                   Date Extracted: 07/12/12 17:03
Sample ID:  BLDG 60195                 Date Analyzed: 07/12/12 17:03
Lab Samp ID: G502-03                   Dilution Factor: 1
Lab File ID: RGV149                    Matrix       : WATER
Ext Btch ID: V001G08                   % Moisture   : NA
Calib. Ref.: RGV089                    Instrument ID : T-001
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	3.8	0.50	0.20
BROMODICHLOROMETHANE	14	0.50	0.20
DIBROMOCHLOROMETHANE	32	0.50	0.20
BROMOFORM	39	0.50	0.30
TOTAL THM	89	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.13	10.00	81.3	70-130
BROMOFLUOROBENZENE	9.39	10.00	93.9	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 07/10/12
Project     : 3710707 - SCI            Date Received: 07/11/12
Batch No.   : 12G502                  Date Extracted: 07/12/12 16:07
Sample ID   : BLDG 60224              Date Analyzed: 07/12/12 16:07
Lab Samp ID: G502-02                  Dilution Factor: 1
Lab File ID: RGV147                   Matrix          : WATER
Ext Btch ID: V001G08                  % Moisture      : NA
Calib. Ref.: RGV089                   Instrument ID    : T-001
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	9.2	0.50	0.20
BROMODICHLOROMETHANE	24	0.50	0.20
DIBROMOCHLOROMETHANE	40	0.50	0.20
BROMOFORM	47	0.50	0.30
TOTAL THM	120	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	7.92	10.00	79.2	70-130
BROMOFLUOROBENZENE	9.17	10.00	91.7	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC
Project     : 3710707 - SCI
Batch No.   : 126502
Sample ID   : BLDG 60068
Lab Samp ID: G502-01
Lab File ID: RGV146
Ext Btch ID: V001G08
Calib. Ref.: RGV089

Date Collected: 07/10/12
Date Received: 07/11/12
Date Extracted: 07/12/12 15:39
Date Analyzed: 07/12/12 15:39
Dilution Factor: 1
Matrix      : WATER
% Moisture  : NA
Instrument ID : T-001
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	4.7	0.50	0.20
BROMODICHLOROMETHANE	16	0.50	0.20
DIBROMOCHLOROMETHANE	28	0.50	0.20
BROMOFORM	30	0.50	0.30
TOTAL THM	79	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	7.61	10.00	76.1	70-130
BROMOFLUOROBENZENE	9.00	10.00	90.0	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 07/10/12
Project     : 3710707 - SCI            Date Received: 07/11/12
Batch No.   : 126502                   Date Extracted: 07/13/12 18:04
Sample ID:  TRIP BLANKS                 Date Analyzed: 07/13/12 18:04
Lab Samp ID: G502-07R                  Dilution Factor: 1
Lab File ID: RGV165                     Matrix      : WATER
Ext Btch ID: V001G09                    % Moisture  : NA
Calib. Ref.: RGV089                     Instrument ID : T-001
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	ND	0.50	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
TOTAL THM	ND	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.01	10.00	80.1	70-130
BROMOFLUOROBENZENE	9.56	10.00	95.6	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC
Project     : 3710707 - SCI
Batch No.   : 120547
Sample ID   : BLDG 60068
Lab Samp ID: D547-01
Lab File ID: RD0150
Ext Btch ID: V094009
Calib. Ref.: RBD070
Date Collected: 04/18/12
Date Received: 04/19/12
Date Extracted: 04/24/12 13:12
Date Analyzed: 04/24/12 13:12
Dilution Factor: 1
Matrix      : WATER
% Moisture  : NA
Instrument ID : T-094
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	48	0.50	0.20
BROMODICHLOROMETHANE	43	0.50	0.20
DIBROMOCHLOROMETHANE	48	0.50	0.20
BROMOFORM	45	0.50	0.30
TOTAL THM	180	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.74	10.00	87.4	70-130
BROMOFLUOROBENZENE	8.70	10.00	87.0	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 04/18/12
Project     : 3710707 - SC1           Date Received: 04/19/12
Batch No.   : 12D547                  Date Extracted: 04/24/12 13:48
Sample ID   : BLDG 60224              Date Analyzed: 04/24/12 13:48
Lab Samp ID: D547-02                 Dilution Factor: 1
Lab File ID: RDD151                  Matrix          : WATER
Ext Btch ID: VO94009                % Moisture     : NA
Calib. Ref.: RBD070                  Instrument ID   : T-094
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	30	0.50	0.20
BROMODICHLOROMETHANE	41	0.50	0.20
DIBROMOCHLOROMETHANE	57	0.50	0.20
BROMOFORM	47	0.50	0.30
TOTAL THM	180	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.26	10.00	82.6	70-130
BROMOFLUOROBENZENE	8.70	10.00	87.0	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC           Date Collected: 04/18/12
Project     : 3710707 - SC1            Date Received: 04/19/12
Batch No.   : 12D547                   Date Extracted: 04/24/12 14:24
Sample ID   : BLDG 60195                Date Analyzed: 04/24/12 14:24
Lab Samp ID: D547-03                    Dilution Factor: 1
Lab File ID: RDD152                      Matrix : WATER
Ext Btch ID: V094D09                     % Moisture : NA
Calib. Ref.: R8D070                       Instrument ID : T-094
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	12	0.50	0.20
BROMODICHLOROMETHANE	22	0.50	0.20
DIBROMOCHLOROMETHANE	58	0.50	0.20
BROMOFORM	110E	0.50	0.30
TOTAL THM	200E	0.50	0.30
SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY QC LIMIT
1,2-DICHLOROBENZENE-D4	9.14	10.00	91.4 70-130
BROMOFLUOROBENZENE	9.06	10.00	90.6 70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC          Date Collected: 04/18/12
Project     : 3710707 - SCI          Date Received: 04/19/12
Batch No.   : 12D547                Date Extracted: 04/26/12 23:23
Sample ID   : BLDG 60195DL          Date Analyzed: 04/26/12 23:23
Lab Samp ID: D547-03T              Dilution Factor: 10
Lab File ID: RDD175                Matrix          : WATER
Ext Btch ID: V094D11               % Moisture     : NA
Calib. Ref.: RBD070                Instrument ID   : T-094
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	13	5.0	2.0
BROMODICHLOROMETHANE	24	5.0	2.0
DIBROMOCHLOROMETHANE	59	5.0	2.0
BROMOFORM	100	5.0	3.0
TOTAL THM	200	5.0	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	86.6	100.0	86.6	70-130
BROMOFLUOROBENZENE	93.9	100.0	93.9	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC          Date Collected: 04/18/12
Project    : 3710707 - SC1           Date Received: 04/19/12
Batch No.  : 12D547                  Date Extracted: 04/24/12 15:01
Sample ID  : BLDG 61008              Date Analyzed: 04/24/12 15:01
Lab Samp ID: D547-04                 Dilution Factor: 1
Lab File ID: RDD153                 Matrix: WATER
Ext Btch ID: V094009                % Moisture: NA
Calib. Ref.: RBD070                 Instrument ID: T-094
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	19	0.50	0.20
BROMODICHLOROMETHANE	29	0.50	0.20
DIBROMOCHLOROMETHANE	50	0.50	0.20
BROMOFORM	60	0.50	0.30
TOTAL THM	160	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.94	10.00	89.4	70-130
BROMOFLUOROBENZENE	8.82	10.00	88.2	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client      : NAVY - SHAW PWC
Project     : 3710707 - SCI
Batch No.   : 120547
Sample ID   : BLDG 60023
Lab Samp ID: D547-05
Lab File ID: RDD154
Ext Btch ID: V094009
Calib. Ref.: RBD070
Date Collected: 04/18/12
Date Received: 04/19/12
Date Extracted: 04/24/12 15:38
Date Analyzed: 04/24/12 15:38
Dilution Factor: 1
Matrix      : WATER
% Moisture  : NA
Instrument ID : T-094
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	32	0.50	0.20
BROMODICHLOROMETHANE	32	0.50	0.20
DIBROMOCHLOROMETHANE	38	0.50	0.20
BROMOFORM	36	0.50	0.30
TOTAL THM	140	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.62	10.00	86.2	70-130
BROMOFLUOROBENZENE	8.77	10.00	87.7	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client   : NAVY - SHAW PWC           Date Collected: 04/18/12
Project  : 3710707 - SCI             Date Received: 04/19/12
Batch No.: 120547                   Date Extracted: 04/24/12 16:15
Sample ID: BARGE                     Date Analyzed: 04/24/12 16:15
Lab Samp ID: 0547-06                Dilution Factor: 1
Lab File ID: RDD155                 Matrix : WATER
Ext Btch ID: V094009                % Moisture : NA
Calib. Ref.: RBD070                 Instrument ID : T-094
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	ND	0.50	0.20
BROMODICHLOROMETHANE	0.93	0.50	0.20
DIBROMOCHLOROMETHANE	2.1	0.50	0.20
BROMOFORM	5.1	0.50	0.30
TOTAL THM	8.1	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	8.87	10.00	88.7	70-130
BROMOFLUOROBENZENE	8.68	10.00	86.8	70-130

Note: MCL Level is 80 ug/L

METHOD E524.2  
VOLATILE ORGANICS BY GC/MS

```

=====
Client       : NAVY - SHAW PWC
Project      : 3710707 - SCI
Batch No.    : 120547
Sample ID    : TRIP BLANKS
Lab Samp ID  : D547-07
Lab File ID  : RDD149
Ext Btch ID  : VO94D09
Calib. Ref. : RBD070
Date Collected: 04/18/12
Date Received: 04/19/12
Date Extracted: 04/24/12 12:35
Date Analyzed: 04/24/12 12:35
Dilution Factor: 1
Matrix       : WATER
% Moisture   : NA
Instrument ID : 1-094
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
CHLOROFORM	ND	0.50	0.20
BROMODICHLOROMETHANE	ND	0.50	0.20
DIBROMOCHLOROMETHANE	ND	0.50	0.20
BROMOFORM	ND	0.50	0.30
TOTAL THM	ND	0.50	0.30

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROBENZENE-D4	9.70	10.00	97.0	70-130
BROMOFLUOROBENZENE	9.81	10.00	98.1	70-130

Note: MCL Level is 80 ug/L

### USN SCI Stage 1 DBPR TTHM

