

September 8, 2000

Mr. Roger England  
Hardage Construction  
5800 Shellmound Street  
Emeryville, CA 94608

MAY 07 2001

RE: Air Testing for Volatile Organic Compounds (VOCs)  
Hardage Suites Hotel  
5800 Shellmound Street  
Emeryville, California

Dear Mr. England:

On August 23 and 24, 2000, RGA Environmental, Inc. (RGA) conducted air testing in four (4) areas on the subject property. Air samples were collected in preparation for occupancy of the newly constructed hotel. Two (2) air samples were collected on the first floor, one (1) on the second floor and one (1) on the exterior of the building.

This testing was performed in accordance with Alameda County Department of Environmental Health requirements for post-construction building interior air testing. The testing was required to verify that contaminants detected or suspected in soil and water at the site prior to construction did not pose a risk to building occupants following the completion of construction.

A total of four (4) air samples were collected with six (6) liter Summa canisters. A Summa canister is a stainless steel vessel with internal surfaces that have been electropolished and chemically deactivated to produce a surface that is chemically inert. The canisters will hold a vacuum greater than 28" of mercury. Flow controllers are installed as part of the sampling train to restrict the release of the vacuum to a specific time period. The flow controller for the interior samples were set for twenty-four (24) hour sample collection. The flow controller for the exterior sample was set for an eight (8) hour sample collection.

Air samples were transported under a chain-of-custody to Air Toxics Ltd in Folsom, California. Samples were analyzed using an Environmental Protection Agency (EPA) TO-14 method. The attached Table 1 summarizes the volatile organic compounds (VOCs) detected. In Table 1 the compounds are compared to California Department of Occupational Safety and Health (DOSH) permissible exposure limits (PELs), if available.



4701 Doyle Street  
Suite 14  
Emeryville, CA 94608

510 547 7771  
FAX 547 1983


The PELs are maximum permitted 8-hour time-weighted average exposure concentrations of an airborne contaminant. Employers are required to reduce employee exposure to below these limits by the use of product substitution, engineering controls, administrative controls, and personal protective equipment.

## CONCLUSIONS

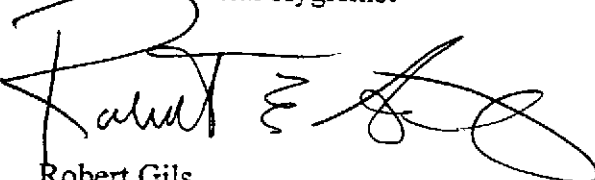
Eleven VOCs were detected in the four (4) sampled areas. The VOCs detected are typical of a new building under construction. The results of testing did not indicate any airborne concentrations in excess of the PELs on the dates tested. The concentrations of airborne VOCs measured were in excess of 1,000 times below the DOSH PELs. Also, it is suspected that the levels of the VOCs detected will decrease further after construction is completed and the building's heating, ventilation and air conditioning (HVAC) systems are in operation.

RGA appreciates this opportunity to provide our industrial hygiene consulting services to Hardage Construction. If you have any questions regarding the laboratory results or this report, please feel free to contact us at 510-547-7771.

Respectfully,  
RGA Environmental, Inc.



fw Kenneth Pilgrim  
Senior Industrial Hygienist



Robert Gils  
Vice President, CIH# 1151

Attachments: Table 1, Laboratory Reports  
Chain-of-Custody Forms

**TABLE 1**  
**Air Quality Sampling for Volatile Organic Compounds**  
**Hardage Suites Hotel**  
 5800 Shellmound Street  
 Emeryville, CA 94608

	<b>Sample #01</b> <b>Exterior</b> <b>under east</b> <b>cover</b>	<b>Sample #02</b> <b>First floor</b> <b>Manager's</b> <b>Office</b>	<b>Sample #03</b> <b>First floor</b> <b>Laundry</b> <b>Room</b>	<b>Sample #04</b> <b>Second floor,</b> <b>Suite 215</b>	<b>DOSH Permissible</b> <b>Exposure Limit</b>
<b>Volatile Organic Compounds</b>					
Chloromethane	0.0015	-	0.0012	0.0022	5
Toluene	0.0022	0.003	0.0025	0.0086	50
m,p,-Xylene	0.0012	0.0022	0.0022	0.0057	100
Acetone	0.013	0.1	0.0089	0.032	750
Ethanol	0.0034	0.0065	0.0053	0.012	1,000
o-Xylene	-	0.0011	-	-	100
1,2,4-Trimethylbenzene	-	0.0098	-	-	25
2-Propanol	-	0.005	-	-	200
2-Butanone (Methyl Ethyl Ketone)	-	0.0087	-	-	200
Freon 12	-	-	-	0.0037	1,000
1,4 Dioxane	-	-	-	0.011	25
<b>Results in parts per million</b>					



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 0008416

### Work Order Summary

**CLIENT:** Steff Steiner  
RGA Environmental  
4701 Doyle Street  
Emeryville, CA 94608-2907

**BILL TO:** Steff Steiner  
RGA Environmental  
4701 Doyle Street  
Emeryville, CA 94608-2907

**PHONE:** 510-547-7771

**P.O. #**

**FAX:** 510-547-1983

**PROJECT #** HSHI5797

**DATE RECEIVED:** 8/25/00

**DATE COMPLETED:** 9/1/00

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	01	TO-14	6.0 "Hg
02A	02	TO-14	2.5 "Hg
03A	03	TO-14	4.0 "Hg
04A	04	TO-14	1.0 "Hg
05A	Lab Blank	TO-14	NA

CERTIFIED BY:

Laboratory Director

DATE:

9/1/00

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217, AZ ELAP - AZ0567

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

# LABORATORY NARRATIVE

## TO-14

### RGA Environmental

Workorder# 0008416

Four 6 Liter Summa Canister samples were received on August 25, 2000. The laboratory performed analysis via EPA Method TO-14 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

During the five point calibration, two low-level standards are used. The low-level standard for TO-14 compounds is spiked at 0.5 ppbv and represents the reporting limit for these compounds. The low-level standard for the non-TO-14 compounds is spiked at 2.0 ppbv and represents the reporting limit for these compounds. The TO-14 compounds are present in both standards but are excluded from reporting in the 2.0 ppbv standard since a lower level is already included in the curve.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14</i>	<i>ATL Modifications</i>
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal standard recoveries.	Not specified.	Within 40% of the daily CCV internal standard area for blanks and samples.
Internal standard retention times.	Not specified.	Within 0.50 minutes of most recent daily CCV internal standards
Internal calibration criteria.	Not specified.	RSD of 30% or less for standard compounds, 40% or less for non-standard and polar compounds
Continuing calibration verification criteria	Not specified.	70 - 130% for at least 90% of standard compounds, 60 - 140% for at least 80% of non-standard and polar compounds
Response factor for quantitation.	Average response factor (ICAL).	Average response factor (ICAL).

### Receiving Notes

There were no receiving discrepancies.

### Analytical Notes

There were no analytical discrepancies.

### Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit(background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.  
N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 01

ID#: 0008416-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	g082811	Date of Collection:	8/23/00
Dil. Factor:	1.68	Date of Analysis:	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.84	4.2	Not Detected	Not Detected
Freon 114	0.84	6.0	Not Detected	Not Detected
Chloromethane	0.84	1.8	1.5	3.1
Vinyl Chloride	0.84	2.2	Not Detected	Not Detected
Bromomethane	0.84	3.3	Not Detected	Not Detected
Chloroethane	0.84	2.2	Not Detected	Not Detected
Freon 11	0.84	4.8	Not Detected	Not Detected
1,1-Dichloroethene	0.84	3.4	Not Detected	Not Detected
Freon 113	0.84	6.5	Not Detected	Not Detected
Methylene Chloride	0.84	3.0	Not Detected	Not Detected
1,1-Dichloroethane	0.84	3.4	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.84	3.4	Not Detected	Not Detected
Chloroform	0.84	4.2	Not Detected	Not Detected
1,1,1-Trichloroethane	0.84	4.6	Not Detected	Not Detected
Carbon Tetrachloride	0.84	5.4	Not Detected	Not Detected
Benzene	0.84	2.7	Not Detected	Not Detected
1,2-Dichloroethane	0.84	3.4	Not Detected	Not Detected
Trichloroethene	0.84	4.6	Not Detected	Not Detected
1,2-Dichloropropane	0.84	3.9	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.84	3.9	Not Detected	Not Detected
Toluene	0.84	3.2	2.2	8.6
trans-1,3-Dichloropropene	0.84	3.9	Not Detected	Not Detected
1,1,2-Trichloroethane	0.84	4.6	Not Detected	Not Detected
Tetrachloroethene	0.84	5.8	Not Detected	Not Detected
Ethylene Dibromide	0.84	6.6	Not Detected	Not Detected
Chlorobenzene	0.84	3.9	Not Detected	Not Detected
Ethyl Benzene	0.84	3.7	Not Detected	Not Detected
m,p-Xylene	0.84	3.7	1.2	5.2
o-Xylene	0.84	3.7	Not Detected	Not Detected
Styrene	0.84	3.6	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.84	5.9	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.84	4.2	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.84	4.2	Not Detected	Not Detected
1,3-Dichlorobenzene	0.84	5.1	Not Detected	Not Detected
1,4-Dichlorobenzene	0.84	5.1	Not Detected	Not Detected
Chlorotoluene	0.84	4.4	Not Detected	Not Detected
1,2-Dichlorobenzene	0.84	5.1	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.84	6.3	Not Detected	Not Detected
Hexachlorobutadiene	0.84	9.1	Not Detected	Not Detected
Propylene	3.4	5.9	Not Detected	Not Detected
1,3-Butadiene	3.4	7.6	Not Detected	Not Detected
Acetone	3.4	8.1	13	32

# AIR TOXICS LTD.

SAMPLE NAME : 01

ID#: 0008416-01A

EPA METHOD TO-14 GC/MS Full Scan

<b>File Name:</b>	g082811	<b>Date of Collection:</b>	8/23/00
<b>Dil. Factor:</b>	1.68	<b>Date of Analysis:</b>	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	3.4	11	Not Detected	Not Detected
2-Propanol	3.4	8.4	Not Detected	Not Detected
trans-1,2-Dichloroethene	3.4	14	Not Detected	Not Detected
Vinyl Acetate	3.4	12	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	10	Not Detected	Not Detected
Hexane	3.4	12	Not Detected	Not Detected
Tetrahydrofuran	3.4	10	Not Detected	Not Detected
Cyclohexane	3.4	12	Not Detected	Not Detected
1,4-Dioxane	3.4	12	Not Detected	Not Detected
Bromodichloromethane	3.4	23	Not Detected	Not Detected
4-Methyl-2-pentanone	3.4	14	Not Detected	Not Detected
2-Hexanone	3.4	14	Not Detected	Not Detected
Dibromochloromethane	3.4	29	Not Detected	Not Detected
Bromoform	3.4	35	Not Detected	Not Detected
4-Ethyltoluene	3.4	17	Not Detected	Not Detected
Ethanol	3.4	6.4	3.4	6.6
Methyl tert-Butyl Ether	3.4	12	Not Detected	Not Detected
Heptane	3.4	14	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	87	70-130



# AIR TOXICS LTD.

SAMPLE NAME : 02

ID#: 0008416-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	g082812	Date of Collection:	8/23/00
Dil. Factor:	1.46	Date of Analysis:	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.73	3.7	Not Detected	Not Detected
Freon 114	0.73	5.2	Not Detected	Not Detected
Chloromethane	0.73	1.5	Not Detected	Not Detected
Vinyl Chloride	0.73	1.9	Not Detected	Not Detected
Bromomethane	0.73	2.9	Not Detected	Not Detected
Chloroethane	0.73	2.0	Not Detected	Not Detected
Freon 11	0.73	4.2	Not Detected	Not Detected
1,1-Dichloroethene	0.73	2.9	Not Detected	Not Detected
Freon 113	0.73	5.7	Not Detected	Not Detected
Methylene Chloride	0.73	2.6	Not Detected	Not Detected
1,1-Dichloroethane	0.73	3.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.73	2.9	Not Detected	Not Detected
Chloroform	0.73	3.6	Not Detected	Not Detected
1,1,1-Trichloroethane	0.73	4.0	Not Detected	Not Detected
Carbon Tetrachloride	0.73	4.7	Not Detected	Not Detected
Benzene	0.73	2.4	Not Detected	Not Detected
1,2-Dichloroethane	0.73	3.0	Not Detected	Not Detected
Trichloroethene	0.73	4.0	Not Detected	Not Detected
1,2-Dichloropropane	0.73	3.4	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.73	3.4	Not Detected	Not Detected
Toluene	0.73	2.8	3.0	11
trans-1,3-Dichloropropene	0.73	3.4	Not Detected	Not Detected
1,1,2-Trichloroethane	0.73	4.0	Not Detected	Not Detected
Tetrachloroethene	0.73	5.0	Not Detected	Not Detected
Ethylene Dibromide	0.73	5.7	Not Detected	Not Detected
Chlorobenzene	0.73	3.4	Not Detected	Not Detected
Ethyl Benzene	0.73	3.2	Not Detected	Not Detected
m,p-Xylene	0.73	3.2	2.2	9.6
o-Xylene	0.73	3.2	1.1	4.7
Styrene	0.73	3.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.73	5.1	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.73	3.6	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.73	3.6	0.98	4.9
1,3-Dichlorobenzene	0.73	4.5	Not Detected	Not Detected
1,4-Dichlorobenzene	0.73	4.5	Not Detected	Not Detected
Chlorotoluene	0.73	3.8	Not Detected	Not Detected
1,2-Dichlorobenzene	0.73	4.5	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.73	5.5	Not Detected	Not Detected
Hexachlorobutadiene	0.73	7.9	Not Detected	Not Detected
Propylene	2.9	5.1	Not Detected	Not Detected
1,3-Butadiene	2.9	6.6	Not Detected	Not Detected
Acetone	2.9	7.0	100	240

# AIR TOXICS LTD.

SAMPLE NAME : 02

ID#: 0008416-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	g082812	Date of Collection:	8/23/00
Dil. Factor:	1.46	Date of Analysis:	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.9	9.2	Not Detected	Not Detected
2-Propanol	2.9	7.3	5.0	12
trans-1,2-Dichloroethene	2.9	12	Not Detected	Not Detected
Vinyl Acetate	2.9	10	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.9	8.8	8.7	26
Hexane	2.9	10	Not Detected	Not Detected
Tetrahydrofuran	2.9	8.8	Not Detected	Not Detected
Cyclohexane	2.9	10	Not Detected	Not Detected
1,4-Dioxane	2.9	11	Not Detected	Not Detected
Bromodichloromethane	2.9	20	Not Detected	Not Detected
4-Methyl-2-pentanone	2.9	12	Not Detected	Not Detected
2-Hexanone	2.9	12	Not Detected	Not Detected
Dibromochloromethane	2.9	25	Not Detected	Not Detected
Bromoform	2.9	31	Not Detected	Not Detected
4-Ethyltoluene	2.9	14	Not Detected	Not Detected
Ethanol	2.9	5.6	6.5	12
Methyl tert-Butyl Ether	2.9	11	Not Detected	Not Detected
Heptane	2.9	12	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	89	70-130

# AIR TOXICS LTD.

SAMPLE NAME : 03

ID#: 0008416-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	g0082613	Date of Collection:	8/23/00
Dil. Factor:	1.55	Date of Analysis:	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.78	3.9	Not Detected	Not Detected
Freon 114	0.78	5.5	Not Detected	Not Detected
Chloromethane	0.78	1.6	1.2	2.5
Vinyl Chloride	0.78	2.0	Not Detected	Not Detected
Bromomethane	0.78	3.0	Not Detected	Not Detected
Chloroethane	0.78	2.1	Not Detected	Not Detected
Freon 11	0.78	4.4	Not Detected	Not Detected
1,1-Dichloroethene	0.78	3.1	Not Detected	Not Detected
Freon 113	0.78	6.0	Not Detected	Not Detected
Methylene Chloride	0.78	2.7	Not Detected	Not Detected
1,1-Dichloroethane	0.78	3.2	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.78	3.1	Not Detected	Not Detected
Chloroform	0.78	3.8	Not Detected	Not Detected
1,1,1-Trichloroethane	0.78	4.3	Not Detected	Not Detected
Carbon Tetrachloride	0.78	5.0	Not Detected	Not Detected
Benzene	0.78	2.5	Not Detected	Not Detected
1,2-Dichloroethane	0.78	3.2	Not Detected	Not Detected
Trichloroethene	0.78	4.2	Not Detected	Not Detected
1,2-Dichloropropane	0.78	3.6	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.78	3.6	Not Detected	Not Detected
Toluene	0.78	3.0	2.5	9.4
trans-1,3-Dichloropropene	0.78	3.6	Not Detected	Not Detected
1,1,2-Trichloroethane	0.78	4.3	Not Detected	Not Detected
Tetrachloroethene	0.78	5.3	Not Detected	Not Detected
Ethylene Dibromide	0.78	6.0	Not Detected	Not Detected
Chlorobenzene	0.78	3.6	Not Detected	Not Detected
Ethyl Benzene	0.78	3.4	Not Detected	Not Detected
m,p-Xylene	0.78	3.4	2.2	9.5
o-Xylene	0.78	3.4	Not Detected	Not Detected
Styrene	0.78	3.4	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.78	5.4	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.78	3.9	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.78	3.9	Not Detected	Not Detected
1,3-Dichlorobenzene	0.78	4.7	Not Detected	Not Detected
1,4-Dichlorobenzene	0.78	4.7	Not Detected	Not Detected
Chlorotoluene	0.78	4.1	Not Detected	Not Detected
1,2-Dichlorobenzene	0.78	4.7	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.78	5.8	Not Detected	Not Detected
Hexachlorobutadiene	0.78	8.4	Not Detected	Not Detected
Propylene	3.1	5.4	Not Detected	Not Detected
1,3-Butadiene	3.1	7.0	Not Detected	Not Detected
Acetone	3.1	7.5	8.9	21

# AIR TOXICS LTD.

SAMPLE NAME : 03

ID#: 0008416-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	g082813	Date of Collection:	8/23/00
Dil. Factor:	1.55	Date of Analysis:	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	3.1	9.8	Not Detected	Not Detected
2-Propanol	3.1	7.7	Not Detected	Not Detected
trans-1,2-Dichloroethene	3.1	12	Not Detected	Not Detected
Vinyl Acetate	3.1	11	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.1	9.3	Not Detected	Not Detected
Hexane	3.1	11	Not Detected	Not Detected
Tetrahydrofuran	3.1	9.3	Not Detected	Not Detected
Cyclohexane	3.1	11	Not Detected	Not Detected
1,4-Dioxane	3.1	11	Not Detected	Not Detected
Bromodichloromethane	3.1	21	Not Detected	Not Detected
4-Methyl-2-pentanone	3.1	13	Not Detected	Not Detected
2-Hexanone	3.1	13	Not Detected	Not Detected
Dibromochloromethane	3.1	27	Not Detected	Not Detected
Bromoform	3.1	32	Not Detected	Not Detected
4-Ethyltoluene	3.1	15	Not Detected	Not Detected
Ethanol	3.1	5.9	5.3	10
Methyl tert-Butyl Ether	3.1	11	Not Detected	Not Detected
Heptane	3.1	13	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	87	70-130

# AIR TOXICS LTD.

SAMPLE NAME : 04

ID#: 0008416-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	g082814	Date of Collection:	8/23/00
DIL Factor:	1.39	Date of Analysis:	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.70	3.5	0.74	3.7
Freon 114	0.70	4.9	Not Detected	Not Detected
Chloromethane	0.70	1.4	1.1	2.2
Vinyl Chloride	0.70	1.8	Not Detected	Not Detected
Bromomethane	0.70	2.7	Not Detected	Not Detected
Chloroethane	0.70	1.9	Not Detected	Not Detected
Freon 11	0.70	4.0	Not Detected	Not Detected
1,1-Dichloroethene	0.70	2.8	Not Detected	Not Detected
Freon 113	0.70	5.4	Not Detected	Not Detected
Methylene Chloride	0.70	2.4	Not Detected	Not Detected
1,1-Dichloroethane	0.70	2.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.70	2.8	Not Detected	Not Detected
Chloroform	0.70	3.4	Not Detected	Not Detected
1,1,1-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Carbon Tetrachloride	0.70	4.4	Not Detected	Not Detected
Benzene	0.70	2.2	Not Detected	Not Detected
1,2-Dichloroethane	0.70	2.8	Not Detected	Not Detected
Trichloroethene	0.70	3.8	Not Detected	Not Detected
1,2-Dichloropropane	0.70	3.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
Toluene	0.70	2.7	2.2	8.6
trans-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
1,1,2-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Tetrachloroethene	0.70	4.8	Not Detected	Not Detected
Ethylene Dibromide	0.70	5.4	Not Detected	Not Detected
Chlorobenzene	0.70	3.2	Not Detected	Not Detected
Ethyl Benzene	0.70	3.1	Not Detected	Not Detected
m,p-Xylene	0.70	3.1	1.3	5.7
o-Xylene	0.70	3.1	Not Detected	Not Detected
Styrene	0.70	3.0	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.70	4.8	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.70	3.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,4-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
Chlorotoluene	0.70	3.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.70	5.2	Not Detected	Not Detected
Hexachlorobutadiene	0.70	7.5	Not Detected	Not Detected
Propylene	2.8	4.9	Not Detected	Not Detected
1,3-Butadiene	2.8	6.2	Not Detected	Not Detected
Acetone	2.8	6.7	13	32

# AIR TOXICS LTD.

SAMPLE NAME : 04

ID#: 0008416-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	g082814	Date of Collection: 8/23/00
Dil. Factor:	1.00	Date of Analysis: 8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.8	8.8	Not Detected	Not Detected
2-Propanol	2.8	6.9	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.8	11	Not Detected	Not Detected
Vinyl Acetate	2.8	9.9	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	8.3	Not Detected	Not Detected
Hexane	2.8	10	Not Detected	Not Detected
Tetrahydrofuran	2.8	8.3	Not Detected	Not Detected
Cyclohexane	2.8	9.7	Not Detected	Not Detected
1,4-Dioxane	2.8	10	11	41
Bromodichloromethane	2.8	19	Not Detected	Not Detected
4-Methyl-2-pentanone	2.8	12	Not Detected	Not Detected
2-Hexanone	2.8	12	Not Detected	Not Detected
Dibromochloromethane	2.8	24	Not Detected	Not Detected
Bromoform	2.8	29	Not Detected	Not Detected
4-Ethyltoluene	2.8	14	Not Detected	Not Detected
Ethanol	2.8	5.3	12	22
Methyl tert-Butyl Ether	2.8	10	Not Detected	Not Detected
Heptane	2.8	12	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	88	70-130

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 0008416-05A

EPA METHOD TO-14 GC/MS Full Scan

File Name	g082805	Date of Collection	NA
Dil. Factor	1.00	Date of Analysis	8/28/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Chloromethane	0.50	1.0	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
Ethylene Dibromide	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.50	3.8	Not Detected	Not Detected
Hexachlorobutadiene	0.50	5.4	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 0008416-05A

EPA METHOD TO-14 GC/MS Full Scan

File Name	0092805	Date of Collection	NA
Dil. Factor	1.00	Date of Analysis	8/23/00

Compound	Det. Limit (ppbv)	Det. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	Not Detected	Not Detected
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
Cyclohexane	2.0	7.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
Bromodichloromethane	2.0	14	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	Not Detected	Not Detected
Dibromochloromethane	2.0	17	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Ethanol	2.0	3.8	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	Not Detected	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	85	70-130





**Sample Transportation Notice**

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180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

**CHAIN-OF-CUSTODY RECORD**

Contact Person <u>Steff Steiner</u> Company <u>RGA Environmental, Inc.</u> Address <u>4701 Doyle Street, Ste 14</u> City <u>Emeryville</u> State <u>CA</u> Zip <u>94608</u> Phone <u>510-547-7771</u> FAX <u>510-547-1983</u> Collected By: Signature <u>[Signature]</u>	Project info: P.O. # _____ Project # <u>ASHI 5797</u> Project Name _____	Turn Around Time: <input type="checkbox"/> Normal - <u>5 Day</u> <input checked="" type="checkbox"/> Rush _____ Specify _____
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Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum		
				Initial	Final	Receipt
<u>01A</u>	<u>01</u>	<u>08/23/2000 0833 2hr</u>	<u>EPA - TO14</u>	<u>-30<sup>+</sup> in Hg</u>	<u>-11 in Hg</u>	<u>6.0<sup>+</sup> Hg</u>
<u>02A</u>	<u>02</u>	<u>08/23/2000 - 24 Hr</u>	<u>" "</u>	<u>-30<sup>+</sup> in Hg</u>	<u>-3 in Hg</u>	<u>2.5<sup>+</sup> Hg</u>
<u>03A</u>	<u>03</u>	<u>08/23/2000 - 24 Hr</u>	<u>" "</u>	<u>-30<sup>+</sup> in Hg</u>	<u>-5 in Hg</u>	<u>4.0<sup>+</sup> Hg</u>
<u>04A</u>	<u>04</u>	<u>08/23/2000 - 24 Hr</u>	<u>" "</u>	<u>-30<sup>+</sup> in Hg</u>	<u>-3 in Hg</u>	<u>1.0<sup>+</sup> Hg</u>

Relinquished By: (Signature) Date/Time <u>[Signature]</u> <u>8/24/2000 1448</u>	Received By: (Signature) Date/Time <u>[Signature]</u> <u>8-25-00 905</u>
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

Notes:

Lab Use Only	Shipper Name <u>Golden State overnight</u>	Air Bill # <u>20113201025</u>	Opened By: <u>ET</u>	Temp. (°C) <u>ambient</u>	Condition <u>good</u>	Custody Seals Intact? Yes No <u>None</u>	Work Order # <u>0008416</u>
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TM 8/25/00  
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