



February 2, 2005

Mr. Gary Edelstein
Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment – RR/3
P.O. Box 7921
Madison, WI 53707



**SUBJECT: Annual Landfill Gas Vent Monitoring Report
December 2004 Monitoring Event
Task #9
Stoughton City Landfill
FID # 113005950 - License #133
WDNR Purchase Order #NME00000028
WDNR Project # J-036-02
BT² Project #1764**

Dear Mr. Edelstein:

This letter provides the Annual Landfill Gas (LFG) Vent Monitoring Report for the December 2004 monitoring event at the Stoughton City Landfill site. Passive gas vents GV-2, GV-3, GV-8, GV-11, and GV-21, along with a trip blank, were sampled on December 23, 2004.

Scope and Methods

The objectives of the passive gas vent monitoring are:

- Monitor the concentration of the various gases passively vented from the landfill.
- Verify that the air emissions from the passive gas vents do not exceed the regulatory levels found in the applicable provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP), and chapter NR 445, Wisconsin Administrative Code (WAC).

On December 20, 2004, three days prior to the sampling event, an airtight stainless steel well cap with a ¼-inch barbed fitting was placed on each of the five gas vents. On December 23, 2004, the LMS_x Landfill Gas Meter was used to purge each gas vent and to monitor for percent of the lower explosive level (LEL) as methane, percent oxygen, and flow. Readings were collected each minute to verify gas stability. Samples for laboratory analysis were collected using Summa Canisters. For each individual Summa Canister, the initial vacuum, 10 minute vacuum, 20 minute vacuum, end vacuum, start time, and end time were recorded, as shown on **Table 1**. See the attached site plan (**Figure 1**) for the passive gas vent well locations.

The field procedures for the gas vent sampling were performed in accordance with the Quality Assurance Project Plan (QAPP) Revision 0 submitted to the Wisconsin Department of Natural Resources (WDNR) on September 15, 2000. The passive gas vent samples were analyzed by Air Toxics, Ltd. of Folsom, CA for EPA Method TO-14 Volatile Organic Compounds (VOCs) using a gas chromatograph/mass

spectrometer (GC/MS) in full scan mode. A copy of the laboratory's Standard Operating Procedures (SOP) is included in the QAPP as Appendix B.

Passive Gas Vent Well Analytical Results

Table 1 is a summary of the weather and field measurements collected during gas vent sampling. **Table 2** is a summary of analytical results for the passive gas vent sampling at the site. The original analytical report is included as **Attachment A**.

Laboratory Qualifiers

The five passive gas vent wells were not flagged with any qualifiers. The laboratory control sample (LCS) sample for January 5, 2005 was flagged "Q, Exceeds quality control limits", for chloroethane with 143% recovery, carbon tetrachloride with 137%, and alpha-Chlorotoluene with 154% (limits are 70-130%). Chloroethane, carbon tetrachloride, and alpha-Chlorotoluene were not detected in any of the site samples. No other qualifiers were used.

Volatile Organic Compounds Detected

GV-2

Detections included:

- Toluene at 10 ppbv
- Ethylbenzene at 1.6 ppbv
- m,p-Xylene at 4.4 ppbv
- o-Xylene at 1.0 ppbv
- Acetone at 11 ppbv
- 2-Butanone (methyl ethyl ketone) at 68 ppbv
- Tetrahydrofuran at 20 ppbv

GV-3

Detections included:

- Toluene at 8.4 ppbv
- m,p-Xylene at 3.9 ppbv
- Acetone at 7.5 ppbv
- Ethylbenzene at 1.2 ppbv
- 2-Butanone (methyl ethyl ketone) at 50 ppbv
- Tetrahydrofuran at 16 ppbv

GV-8

Detections included:

- Freon 12 at 99 ppbv
- Toluene at 6.6 ppbv
- Freon 11 at 1.8 ppbv
- Toluene at 140 ppbv
- 2-Butanone (methyl ethyl ketone) at 7.3 ppbv
- Ethylbenzene at 0.95 ppbv
- M,p-Xylene at 2.9 ppbv
- Acetone at 8.1 ppbv
- Tetrahydrofuran at 4.6 ppbv

GV-11

Detections included:

- Freon 12 at 1.3 ppbv
- Ethylbenzene at 1.2 ppbv
- M,p-Xylene at 3.8 ppbv
- Toluene at 5.8 ppbv
- Acetone at 9.2 ppbv
- 2-Butanone (methyl ethyl ketone) at 58 ppbv
- Tetrahydrofuran at 19 ppbv

GV-21

Detections included:

- Toluene at 3.8 ppbv
- m,p-Xylene at 2.8 ppv
- Acetone at 5.6 ppbv
- 2-Butanone (methyl ethyl ketone) at 37 ppbv
- Tetrahydrofuran at 12 ppbv
- Ethanol at 6.8 ppbv

Trip Blank

No detections were found in the trip blank.

Sampling Plan Deviations

No deviations were made from the Sampling Plan and Field Procedures listed in the QAPP.

Emissions Estimation

The chapter NR 445, WAC Hazardous Air Contaminant Acceptable Ambient Concentrations table lists limits for benzene at 300 lbs/yr, ethylbenzene at 152.136 lbs/yr, THF at 49.1352 lbs/yr, and vinyl chloride at 300 lbs/yr. Very low to no flow was detectable at the passive gas vents at the time the samples were collected, so no emissions could be estimated. However, as barometric pressure changes, the individual gas vents may be "inhaling" or "exhaling" gas. Additionally, the flow rate from the entire facility cannot be estimated based on the passive vents. Although some emissions may be occurring, it is very unlikely that the landfill gas emissions exceed the NR 445 standards based on research and the historic inefficiency of passive gas vents.

The Year 6 Annual Landfill Gas Vent Monitoring event will be due in December 2005. A proposed list of selected passive gas vent wells to be sampled will be included with our Year 6 Proposal in May 2005. A CD-ROM is also enclosed containing a copy of this report as a PDF file. Please call us at (608) 224-2830 if you have any questions.

Sincerely,
BT², Inc.



Steven B. Smith
Environmental Specialist



Leslie A. Busse, P.E.
Project Manager

Mr. Gary Edelstein
February 2, 2005
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Cc: Mr. Bernard Schorle, U.S. EPA Region V Office
Ms. Wendy Weihemuller, WDNR South Central Region Office

Enclosures: CD-ROM
Table 1 - Summa Canister Field Data
Table 2 - Annual Landfill Gas Monitoring Results
Figure 1 - Site Plan
Attachment A - Laboratory Analytical Report

I:\1764\Reports\Gas Vent Reports\Annual_PassGas_Report5_050201.doc

TABLES

- 1 Summa Canister Field Data
- 2 Annual Landfill Gas Monitoring Results

Table 1
Annual Passive Gas Vent Sampling
December 2004
Summa Canister Field Data
Stoughton City Landfill / BT² Project #1764

Passive Gas Vent GV-2

Start time = 11:20 am
End Time = 11:50 am
Starting Vacuum = -26" Hg
Vacuum at 10 minutes = -19" Hg
Vacuum at 20 minutes = -11.5" Hg
End Vacuum = -2.0" Hg
Date = 12/23/04

Passive Gas Vent GV-8

Start time = 13:10 pm
End Time = 13:40 pm
Starting Vacuum = -25" Hg
Vacuum at 10 minutes = -18" Hg
Vacuum at 20 minutes = -10" Hg
End Vacuum = -2" Hg
Date = 12/23/04

Passive Gas Vent GV-21

Start time = 15:05 pm
End time = 15:35 pm
Starting Vacuum = -23.5" Hg
Vacuum at 10 minutes = -15" Hg
Vacuum at 20 minutes = -9" Hg
End Vacuum = -2" Hg
Date = 12/23/04

Weather

Date = 12/23/04
Barometric Pressure = 30.34" Hg
Temperature = 5 °F
Humidity = 58%
Dewpoint = -4 °F
Ground Surface = Clear - no snow cover
Conditions = Clear, cold, 10.4 mph wind
Equipment = LMS_x Landfill Gas Meter, Thermo Environmental PID
Operator = Steven Smith

Passive Gas Vent GV-3

Start time = 12:05 pm
End Time = 12:35 pm
Starting Vacuum = -23" Hg
Vacuum at 10 minutes = -15" Hg
Vacuum at 20 minutes = -9" Hg
End Vacuum = -3" Hg
Date = 12/23/04

Passive Gas Vent GV-11

Start time = 14:15 pm
End Time = 14:45 pm
Starting Vacuum = -24.5" Hg
Vacuum at 10 minutes = -17" Hg
Vacuum at 20 minutes = -10" Hg
End Vacuum = -3" Hg
Date = 12/23/04

Trip Blank

Cannister #1999
Starting Vacuum = -25.5" Hg

Table 2
Annual Landfill Gas Monitoring Results
Stoughton City Landfill
December 2004 Sampling Event
BT² Project #1764

Compound	Sample Name: GV-2 ID #: 0412509-02A		Sample Name: GV-3 ID #: 0412509-03A		Sample Name: GV-8 ID #: 0412509-04A		Sample Name: GV-11 ID #: 0412509-05A		Sample Name: GV-21 ID #: 0412509-06A		Sample Name: GV-21 Dup ID #: 0412509-06AA		Sample Name: Trip Blank ID #: 0412509-01A		Sample Name: Lab Blank ID #: 0412509-07A	
	Detection Limit	Result Amount	Detection Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount	Reporting Limit	Result Amount
	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv)	(ppbv) ¹	(ppbv)	(ppbv)	(ppbv)	(ppbv)
Freon 12	0.86	ND	0.90	ND	0.86	99	0.88	1.3	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Freon 114	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Chloromethane	3.4	ND	3.6	ND	3.4	ND	3.5	ND	5.1	ND	5.1	ND	2.0	ND	2.0	ND
Vinyl chloride	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Bromomethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Chloroethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Freon 11	0.86	ND	0.90	ND	0.86	1.8	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,1-Dichloroethene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Freon 113	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Methylene Chloride	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,1-Dichloroethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
cis-1,2-Dichloroethene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Chloroform	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,1,1-Trichloroethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Carbon Tetrachloride	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Benzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,2-Dichloroethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Trichloroethene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,2-Dichloropropane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
cis-1,3-Dichloropropene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Toluene	0.86	10	0.90	8.4	0.86	6.6	0.88	5.8	1.3	3.8	1.3	3.6	0.50	ND	0.50	ND
trans-1,3-Dichloropropene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,1,2-Trichloroethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Tetrachloroethene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,2-Dibromoethane (EDB)	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Chlorobenzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Ethylbenzene	0.86	1.6	0.90	1.2	0.86	0.95	0.88	1.2	1.3	ND	1.3	ND	0.50	ND	0.50	ND
m,p-Xylene	0.86	4.4	0.90	3.9	0.86	2.9	0.88	3.8	1.3	2.8	1.3	2.8	0.50	ND	0.50	ND
o-Xylene	0.86	1.0	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Styrene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,1,2,2-Tetrachloroethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,3,5-Trimethylbenzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,2,4-Trimethylbenzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,3-Dichlorobenzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,4-Dichlorobenzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
alpha-Chlorotoluene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,2-Dichlorobenzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Cumene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Propylbenzene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,2,4-Trichlorobenzene	3.4	ND	3.6	ND	3.4	ND	3.5	ND	5.1	ND	5.1	ND	2.0	ND	2.0	ND
Hexachlorobutadiene	3.4	ND	3.6	ND	3.4	ND	3.5	ND	5.1	ND	5.1	ND	2.0	ND	2.0	ND
Propylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Butadiene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Acetone	3.4	11	3.6	7.5	3.4	8.1	3.5	9.2	5.1	5.6	5.1	6.4	2.0	ND	2.0	ND
Carbon Disulfide	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND

Table 2
Annual Landfill Gas Monitoring Results
Stoughton City Landfill
December 2004 Sampling Event
BT² Project #1764

Compound	Sample Name: GV-2 ID #: 0412509-02A		Sample Name: GV-3 ID #: 0412509-03A		Sample Name: GV-8 ID #: 0412509-04A		Sample Name: GV-11 ID #: 0412509-05A		Sample Name: GV-21 ID #: 0412509-06A		Sample Name: GV-21 Dup ID #: 0412509-06AA #		Sample Name: Trip Blank ID #: 0412509-01A		Sample Name: Lab Blank ID #: 0412509-07A	
	Detection Limit (ppbv)	Result Amount (ppbv)	Detection Limit (ppbv)	Result Amount (ppbv)	Reporting Limit (ppbv)	Result Amount (ppbv)	Reporting Limit (ppbv)	Result Amount (ppbv)	Reporting Limit (ppbv)	Result Amount (ppbv)	Reporting Limit (ppbv)	Result Amount (ppbv)	Reporting Limit (ppbv)	Result Amount (ppbv)	Reporting Limit (ppbv)	Result Amount (ppbv)
2-Propanol	3.4	ND	3.6	ND	3.4	ND	3.5	ND	5.1	ND	5.1	ND	2.0	ND	2.0	ND
trans-1,2-Dichloroethene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Vinyl Acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl Ethyl Ketone)	0.86	68	0.90	50	0.86	7.3	0.88	58	1.3	37	1.3	37	0.50	ND	0.50	ND
Hexane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Tetrahydrofuran	0.86	20	0.90	16	0.86	4.6	0.88	19	1.3	12	1.3	11	0.50	ND	0.50	ND
Cyclohexane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
1,4-Dioxane	3.4	ND	3.6	ND	3.4	ND	3.5	ND	5.1	ND	5.1	ND	2.0	ND	2.0	ND
Bromodichloromethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
4-Methyl-2-pentanone	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
2-Hexanone	3.4	ND	3.6	ND	3.4	ND	3.5	ND	5.1	ND	5.1	ND	2.0	ND	2.0	ND
Dibromochloromethane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Bromoform	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
4-Ethyltoluene	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Ethanol	3.4	ND	3.6	ND	3.4	ND	3.5	ND	5.1	ND	5.1	ND	2.0	ND	2.0	ND
Methyl tert-Butyl Ether	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Heptane	0.86	ND	0.90	ND	0.86	ND	0.88	ND	1.3	ND	1.3	ND	0.50	ND	0.50	ND
Methane	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA
Oxygen	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA
Carbon dioxide	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA

ABBREVIATIONS:

NA = Not Applicable

ND = Not Detected

E = Exceeds instrument calibration range

Created by: LMH 2/2/05

Checked by: SS 2/2/05

FIGURE

MW-12 CLUSTER LOCATED APPROXIMATELY 1,000' EAST

LEGEND

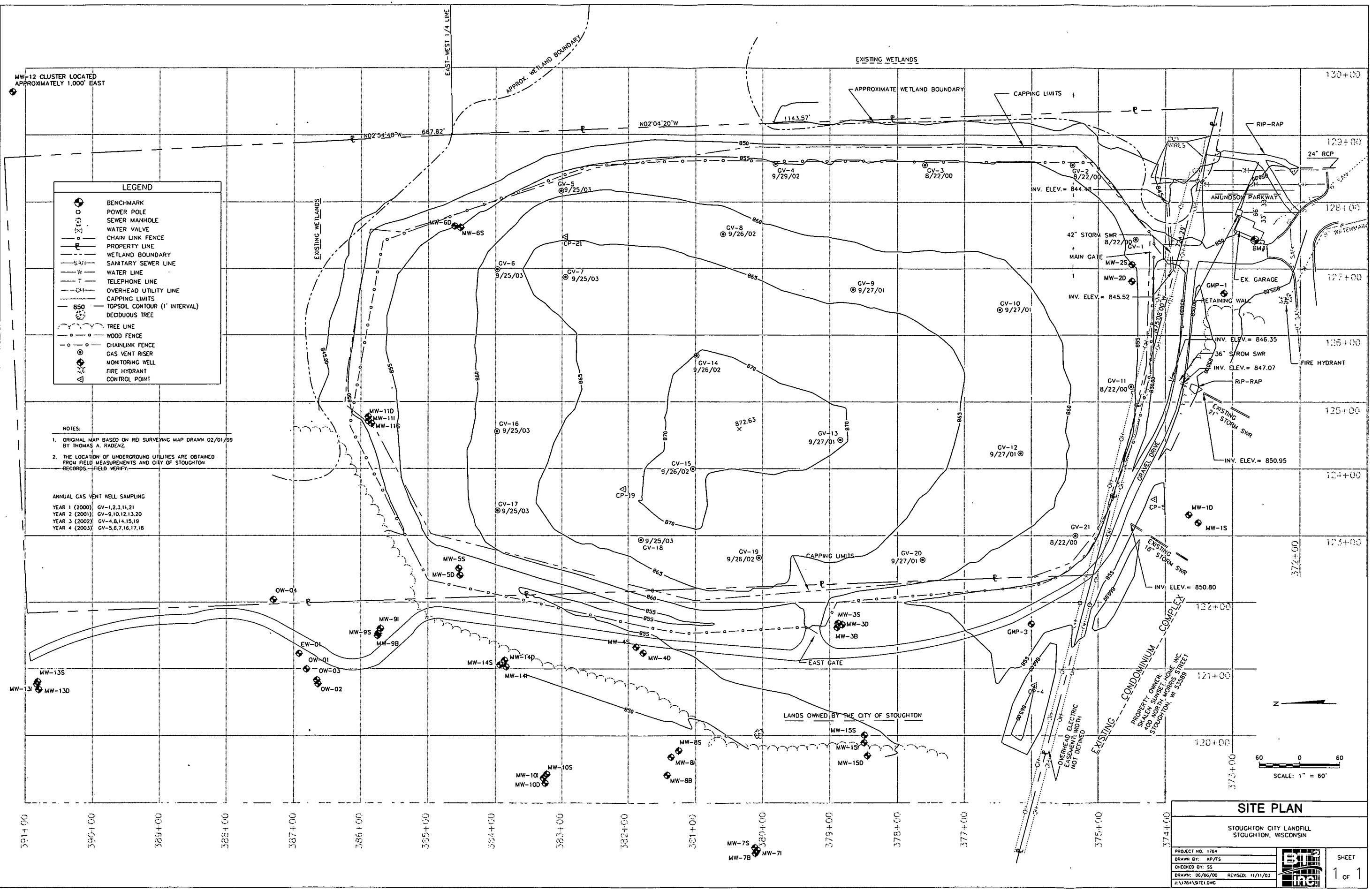
- BENCHMARK
- ⊙ POWER POLE
- ⊙ SEWER MANHOLE
- ⊙ WATER VALVE
- CHAIN LINK FENCE
- PROPERTY LINE
- - - WETLAND BOUNDARY
- - - SANITARY SEWER LINE
- WATER LINE
- TELEPHONE LINE
- - - OVERHEAD UTILITY LINE
- - - CAPPING LIMITS
- 850 TOPSOIL CONTOUR (1' INTERVAL)
- DECIDUOUS TREE
- TREE LINE
- WOOD FENCE
- CHAINLINK FENCE
- ⊙ GAS VENT RISER
- ⊙ MONITORING WELL
- ⊙ FIRE HYDRANT
- △ CONTROL POINT

NOTES:

1. ORIGINAL MAP BASED ON REI SURVEYING MAP DRAWN 02/01/99 BY THOMAS A. RADENZ.
2. THE LOCATION OF UNDERGROUND UTILITIES ARE OBTAINED FROM FIELD MEASUREMENTS AND CITY OF STOUGHTON RECORDS. FIELD VERIFY.

ANNUAL GAS VENT WELL SAMPLING

YEAR 1 (2000)	GV-1,2,3,11,21
YEAR 2 (2001)	GV-9,10,12,13,20
YEAR 3 (2002)	GV-4,8,14,15,19
YEAR 4 (2003)	GV-5,6,7,16,17,18



SITE PLAN

STOUGHTON CITY LANDFILL
STOUGHTON, WISCONSIN

PROJECT NO. 1784		SHEET 1 OF 1
DRAWN BY: KP/FS		
CHECKED BY: SS		
DRAWN: 06/06/00 REVISED: 11/11/03		

J:\1784\SITE.DWG

ATTACHMENT A

Laboratory Analytical Report



Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Contact Person Steven Smith
Company BT², Inc. Email ssmith@bt2inc.com
Address 2830 Oak Dr. City Madison State WI Zip 53718
Phone (608) 224-2830 Fax (608) 224-2839

Project Info:		Turn Around Time:	<i>Lab Use Only</i>
P.O. # <u> </u>	Project # <u>#1764</u>	<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small>	Pressurized by: <u>BS</u>
Project Name <u>Stoughton City LF</u>			Date: <u>12/23/04</u>
			Pressurization Gas: <u>N₂ He</u>

Collected by: (Signature) _____

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum			
					Initial	Final	Receipt	Final
D1A	Trip Blank (199)	12/23/04	10:30	TO-14 VOC'S	-25.5	-25.5	28.5" Hg	5.0 psi
D2A	GV-2 (96107)		11:20 11:00		-26	-2	6.5" Hg	
D3A	GV-3 (13656)		12:05		-23	-3	7.5" Hg	
D4A	GV-8 (3412)		13:10		-25	-2	6.5" Hg	
D5A	GV-11 (12338)		14:15		-24.5	-3	7.0" Hg	
D6A	GV-21 (3003)		15:05		-23.5	-2	10.0" Hg	15.0 psi

Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>12/23/04</u>	Received by: (signature) _____ Date/Time _____	Notes:
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) <u>[Signature]</u> Date/Time <u>12/24/04 1000</u>	
Relinquished by: (signature) _____ Date/Time _____	Received by: (signature) _____ Date/Time _____	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	<u>UPS</u>	<u>12 FSI OBV 20 1001</u>	<u>n/a</u>	<u>GOOD</u>	Yes No <u>None</u>	<u>0412509</u>



AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020

Hours 8:00 A.M to 6:00 P.M. Pacific

E-mail to:samplereceiving@airtoxics.com

WORK ORDER #: 0412509

Work Order Summary

CLIENT: Mr. Steve Smith
BT Squared
2830 Dairy Drive
Madison, WI 53718

BILL TO: Mr. Steve Smith
BT Squared
2830 Dairy Drive
Madison, WI 53718

PHONE: 608-224-2830

FAX: 608-224-2839

DATE RECEIVED: 12/24/2004

DATE COMPLETED: 01/06/2005

P.O. #

PROJECT # 1764 Stoughton City LF

CONTACT: DeDe Dodge

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>
01A	Trip Blank	Modified TO-14A	28.5 "Hg
02A	GV-2	Modified TO-14A	6.5 "Hg
03A	GV-3	Modified TO-14A	7.5 "Hg
04A	GV-8	Modified TO-14A	6.5 "Hg
05A	GV-11	Modified TO-14A	7.0 "Hg
06A	GV-21	Modified TO-14A	6.0 "Hg
06AA	GV-21 Duplicate	Modified TO-14A	6.0 "Hg
07A	Lab Blank	Modified TO-14A	NA
08A	CCV	Modified TO-14A	NA
09A	LCS	Modified TO-14A	NA

CERTIFIED BY: *Sandra A. Freeman*

Laboratory Director

DATE: 01/10/05

Certification numbers: AR DEQ - 03-084-0, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/04, Expiration date: 06/30/05
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
BT Squared
Workorder# 0412509

Six 6 Liter Summa Canister samples were received on December 24, 2004. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.2 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.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-14A/TO-15</i>	<i>ATL Modifications</i>
Continuing Calibration criteria	<= 30% Difference	<= 30% Difference with two allowed out to <= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30% (TO-14A)	RSD<=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer (TO-14A)	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv (TO-14A)	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91, Vinyl Acetate: 43, 2-Butanone: 43, 4-Methyl-2-Pentanone: 43.	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106, Vinyl Acetate: 86, 2-Butanone: 72, 4-Methyl-2-Pentanone: 58.
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day. (TO-14A)	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D.
Sample Load Volume	400 mL (TO-14A)	Varied to 200 mL
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Concentration of IS Spike.	10 ppbv (TO-15)	25 ppbv.
BFB Abundance	CLP Protocol (TO-15)	SW-846 Protocol
IS Recoveries.	Within 40% of mean over ICAL for blanks, and within 40% of daily CCV for samples. (TO-15)	Within 40% of CCV recoveries for blanks and samples.

Receiving Notes

Sample GV-21 was inadvertently pressurized to 15 psi, rather than 5 psi. The discrepancy was noted in the

Sample Receipt Confirmation email/fax and the analysis proceeded. Reporting limits have been adjusted accordingly.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight 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.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

SAMPLE NAME: Trip Blank

ID#: 0412509-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010506	Date of Collection:	12/23/04
Dil. Factor:	1.00	Date of Analysis:	1/5/05 01:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Trip Blank

ID#: 0412509-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010506	Date of Collection: 12/23/04
Dil. Factor:	1.00	Date of Analysis: 1/5/05 01:59 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-2

ID#: 0412509-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010507	Date of Collection: 12/23/04
Dil. Factor:	1.71	Date of Analysis: 1/5/05 02:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	3.4	11	8.1	26
2-Propanol	3.4	Not Detected	8.4	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	68	2.5	200
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.86	20	2.5	61
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	0.86	10	3.2	39
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-2

ID#: 0412509-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010507	Date of Collection: 12/23/04
Dil. Factor:	1.71	Date of Analysis: 1/5/05 02:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	1.6	3.7	6.7
m,p-Xylene	0.86	4.4	3.7	19
o-Xylene	0.86	1.0	3.7	4.4
Styrene	0.86	Not Detected	3.6	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-3

ID#: 0412509-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010508	Date of Collection: 12/23/04
Dil. Factor:	1.79	Date of Analysis: 1/5/05 03:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.4	Not Detected
Freon 114	0.90	Not Detected	6.2	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.0	Not Detected
Ethanol	3.6	Not Detected	6.7	Not Detected
Freon 113	0.90	Not Detected	6.8	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Acetone	3.6	7.5	8.5	18
2-Propanol	3.6	Not Detected	8.8	Not Detected
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
Methylene Chloride	0.90	Not Detected	3.1	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Hexane	0.90	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	50	2.6	150
cis-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Tetrahydrofuran	0.90	16	2.6	48
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Cyclohexane	0.90	Not Detected	3.1	Not Detected
Carbon Tetrachloride	0.90	Not Detected	5.6	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Benzene	0.90	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Heptane	0.90	Not Detected	3.7	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.1	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
Toluene	0.90	8.4	3.4	32
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Tetrachloroethene	0.90	Not Detected	6.1	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-3

ID#: 0412509-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010508	Date of Collection: 12/23/04
Dil. Factor:	1.79	Date of Analysis: 1/5/05 03:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Ethyl Benzene	0.90	1.2	3.9	5.3
m,p-Xylene	0.90	3.9	3.9	17
o-Xylene	0.90	Not Detected	3.9	Not Detected
Styrene	0.90	Not Detected	3.8	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.1	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	109	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-8

ID#: 0412509-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010509	Date of Collection: 12/23/04
Dil. Factor:	1.71	Date of Analysis: 1/5/05 04:12 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	99	4.2	490
Freon 114	0.86	Not Detected	6.0	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	1.8	4.8	10
Ethanol	3.4	Not Detected	6.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Acetone	3.4	8.1	8.1	19
2-Propanol	3.4	Not Detected	8.4	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	7.3	2.5	22
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.86	4.6	2.5	14
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Heptane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
Toluene	0.86	6.6	3.2	25
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-8

ID#: 0412509-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010509	Date of Collection: 12/23/04
Dil. Factor:	1.71	Date of Analysis: 1/5/05 04:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	0.95	3.7	4.1
m,p-Xylene	0.86	2.9	3.7	12
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-11

ID#: 0412509-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010510	Date of Collection: 12/23/04
Dil. Factor:	1.75	Date of Analysis: 1/5/05 04:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.88	1.3	4.3	6.4
Freon 114	0.88	Not Detected	6.1	Not Detected
Chloromethane	3.5	Not Detected	7.2	Not Detected
Vinyl Chloride	0.88	Not Detected	2.2	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.88	Not Detected	4.9	Not Detected
Ethanol	3.5	Not Detected	6.6	Not Detected
Freon 113	0.88	Not Detected	6.7	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Acetone	3.5	9.2	8.3	22
2-Propanol	3.5	Not Detected	8.6	Not Detected
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	58	2.6	170
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Tetrahydrofuran	0.88	19	2.6	55
Chloroform	0.88	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.5	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Benzene	0.88	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.88	Not Detected	3.5	Not Detected
Heptane	0.88	Not Detected	3.6	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.0	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
Toluene	0.88	5.8	3.3	22
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-11

ID#: 0412509-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010510	Date of Collection: 12/23/04
Dil. Factor:	1.75	Date of Analysis: 1/5/05 04:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
1,2-Dibromoethane (EDB)	0.88	Not Detected	6.7	Not Detected
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
Ethyl Benzene	0.88	1.2	3.8	5.2
m,p-Xylene	0.88	3.8	3.8	16
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
1,1,2,2-Tetrachloroethane	0.88	Not Detected	6.0	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-21

ID#: 0412509-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010511	Date of Collection: 12/23/04
Dil. Factor:	2.53	Date of Analysis: 1/5/05 05:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.1	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.1	Not Detected	9.5	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.1	5.6	12	13
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	1.3	Not Detected	3.9	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	37	3.7	110
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	12	3.7	35
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	3.8	4.8	14
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-21

ID#: 0412509-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010511	Date of Collection: 12/23/04
Dil. Factor:	2.53	Date of Analysis: 1/5/05 05:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	2.8	5.5	12
o-Xylene	1.3	Not Detected	5.5	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-21 Duplicate

ID#: 0412509-06AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010512	Date of Collection:	12/23/04
Dil. Factor:	2.53	Date of Analysis:	1/5/05 06:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.1	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.1	Not Detected	9.5	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.1	6.4	12	15
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	1.3	Not Detected	3.9	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	37	3.7	110
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	11	3.7	34
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	3.6	4.8	14
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-21 Duplicate

ID#: 0412509-06AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010512	Date of Collection: 12/23/04
Dil. Factor:	2.53	Date of Analysis: 1/5/05 06:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	2.8	5.5	12
o-Xylene	1.3	Not Detected	5.5	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0412509-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/5/05 01:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0412509-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/5/05 01:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0412509-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/5/05 09:53 AM

Compound	%Recovery
Freon 12	117
Freon 114	120
Chloromethane	93
Vinyl Chloride	97
1,3-Butadiene	76
Bromomethane	102
Chloroethane	123
Freon 11	100
Ethanol	78
Freon 113	105
1,1-Dichloroethene	87
Acetone	76
2-Propanol	76
Carbon Disulfide	85
3-Chloropropene	73
Methylene Chloride	82
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	90
Hexane	84
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	96
Tetrahydrofuran	77
Chloroform	102
1,1,1-Trichloroethane	108
Cyclohexane	105
Carbon Tetrachloride	117
2,2,4-Trimethylpentane	94
Benzene	98
1,2-Dichloroethane	106
Heptane	103
Trichloroethene	102
1,2-Dichloropropane	102
1,4-Dioxane	95
Bromodichloromethane	110
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	104
Toluene	104
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	107
Tetrachloroethene	116
2-Hexanone	91

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0412509-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/5/05 09:53 AM

Compound	%Recovery
Dibromochloromethane	118
1,2-Dibromoethane (EDB)	106
Chlorobenzene	104
Ethyl Benzene	107
m,p-Xylene	109
o-Xylene	109
Styrene	108
Bromoform	127
Cumene	91
1,1,2,2-Tetrachloroethane	99
Propylbenzene	89
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	80
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0412509-09A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/5/05 10:33 AM

Compound	%Recovery
Freon 12	109
Freon 114	119
Chloromethane	95
Vinyl Chloride	104
1,3-Butadiene	81
Bromomethane	109
Chloroethane	143 Q
Freon 11	103
Ethanol	106
Freon 113	109
1,1-Dichloroethene	94
Acetone	87
2-Propanol	82
Carbon Disulfide	100
3-Chloropropene	86
Methylene Chloride	88
Methyl tert-butyl ether	117
trans-1,2-Dichloroethene	101
Hexane	103
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	117
cis-1,2-Dichloroethene	102
Tetrahydrofuran	100
Chloroform	113
1,1,1-Trichloroethane	130
Cyclohexane	122
Carbon Tetrachloride	137 Q
2,2,4-Trimethylpentane	108
Benzene	109
1,2-Dichloroethane	120
Heptane	112
Trichloroethene	113
1,2-Dichloropropane	122
1,4-Dioxane	118
Bromodichloromethane	122
cis-1,3-Dichloropropene	123
4-Methyl-2-pentanone	128
Toluene	108
trans-1,3-Dichloropropene	121
1,1,2-Trichloroethane	116
Tetrachloroethene	124
2-Hexanone	120

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0412509-09A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d010503	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/5/05 10:33 AM

Compound	%Recovery
Dibromochloromethane	140
1,2-Dibromoethane (EDB)	122
Chlorobenzene	115
Ethyl Benzene	114
m,p-Xylene	115
o-Xylene	116
Styrene	103
Bromoform	134
Cumene	101
1,1,2,2-Tetrachloroethane	117
Propylbenzene	74
4-Ethyltoluene	125
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	115
1,4-Dichlorobenzene	116
alpha-Chlorotoluene	154 Q
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	102

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	109	70-130