Stoughton City Lf
02-13-000880

January 2, 2003

Mr. Michael Schmoller
WDNR South Central Region Office
3911 Fish Hatchery Road
Fitchburg, WI 53711

SUBJECT: **Annual Landfill Gas Vent Monitoring Report**
September 2002 Monitoring Event
Stoughton City Landfill
FID # 113005950 - License #133
WDNR Purchase Order #NMC00000112
WDNR Project # J-036-02
BT² Project #1764

Dear Mr. Schmoller:

This letter provides the Annual Landfill Gas (LFG) Vent Monitoring Report for the September 2002 monitoring event at the Stoughton City Landfill site. Passive gas vents GV-4, GV-8, GV-14, GV-15, and GV-19, along with a trip blank, were sampled on September 26, 2002.

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).

Five previously unsampled passive gas vents were chosen for the third year of sampling. See the attached **Site Map** for the passive gas vent well locations. On September 23, 2002, 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 September 26, 2002, 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 Cannisters. For each individual Summa Cannister, the initial vacuum, 10 minute vacuum, 20 minute vacuum, end vacuum, start time, and end time were recorded, as shown on **Table 1**.

The field procedures for the gas vent sampling were performed in accordance with the Quality Assurance Project Plan (QAPP) Revision 0 submitted to the 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 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

No laboratory analytical results from any of the 5 passive gas vent wells were flagged with any qualifiers. The laboratory control sample (LCS) sample for October 9, 2002 was flagged "Q, Exceeds quality control limits", for 4-Ethyltoluene. The percent recovery rates of 70-130% was exceeded at 155%. The LCS sample for October 10, 2002 was flagged "Q , Exceeds quality control limits", for Hexachlorobutadiene. The percent recovery rates of 70-130% were exceeded at 68%. Neither of these VOCs were detected in the site samples. No other qualifiers were used.

Volatile Organic Compounds Detected

GV-4
Detections included:

- 2-Propanol at 26,000 ppbv
- Tetrahydrofuran at 1,100 ppbv

GV-8
Detections included:

- Freon 12 at 860 ppbv
- 2-Propanol at 16,000 ppbv
- Tetrahydrofuran at 1,300 ppbv

GV-14
Detections included:

- Freon 12 at 610 ppbv
- Freon 11 at 200 ppbv
- 2-Propanol at 9,400 ppbv
- Tetrahydrofuran at 640 ppbv

GV-15
Detections included:

- Freon 12 at 480 ppbv
- Vinyl chloride at 54 ppbv
- Chloroethane at 58 ppbv
- Freon 11 at 25 ppbv

- Benzene at 64 ppbv
- Ethylbenzene at 24 ppbv
- Acetone at 1,400 ppbv
- 2-Propanol at 6,900 ppbv
- 2-Butanone (Methyl Ethyl Ketone) at 160 ppbv
- Hexane at 3,400 ppbv
- Tetrahydrofuran at 860 ppbv
- Cyclohexane at 250 ppbv
- Heptane at 500 ppbv

GV-19
Detections included:

- Freon 12 at 110 ppbv
- Acetone at 12,000 ppbv
- 2-Propanol at 3,900 ppbv
- 2-Butanone (MEK) at 300 ppbv
- Hexane at 250 ppbv
- Tetrahydrofuran at 1,100 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, Wisconsin Administrative Code (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 4 Annual Landfill Gas Vent Monitoring event will be due in September 2003. 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,
BT^2, Inc.

Sherren Clark, P.E., P.G.	Jan C. Kucher, P.E.	Steven B. Smith
Quality Assurance/ Senior Review	Project Manager	Environmental Specialist

cc: Mr. Bernard Schorle , U.S. EPA Region V Office

Enclosed: CD-ROM
Site Map
Table 1 - Summa Cannister Field Data
Table 2 - Summary of Analytical Results
Attachment A - Laboratory Analytical Report

I:\1764\Reports\Gas Vent Reports\Annual_PassGasReport3_021108.wpd

SITE MAP


MW-12 CLUSTER LOCATED APPROXIMATELY 1,000' EAST
EAST-WEST 1/4 LINE
APPROX. WETLAND BOUNDARY
EXISTING WETLANDS
APPROXIMATE WETLAND BOUNDARY
CAPPING LIMITS
N02°54'40"W 667.82'
N02°04'20"W
1143.57'
RIP-RAP
24" RCP
GUY WIRES
AMUNDSON PARKWAY
INV. ELEV.= 844.48
42' STORM SWR
MAIN GATE
EX. GARAGE
RETAINING WALL
INV. ELEV.= 845.52
INV. ELEV.= 846.35
36" STROM SWR
INV. ELEV.= 847.07
FIRE HYDRANT
RIP-RAP
EXISTING 21" STORM SWR
INV. ELEV.= 850.95
GRAVEL DRIVE
EXISTING 18" STORM SWR
INV. ELEV.= 850.80
EXISTING CONDOMINIUM COMPLEX
PROPERTY OWNER: SKAALEN SUNSET HOME INC. 400 NORTH MORRIS STREET STOUGHTON, WI 53589
OVERHEAD ELECTRIC EASEMENT WIDTH NOT DEFINED
LANDS OWNED BY THE CITY OF STOUGHTON
EAST GATE
EXISTING WETLANDS
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
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.
GV-1 GV-2 GV-3 GV-4 GV-5 GV-6 GV-7 GV-8 GV-9 GV-10 GV-11 GV-12 GV-13 GV-14 GV-15 GV-16 GV-17 GV-18 GV-19 GV-20 GV-21
CP-4 CP-5 CP-19 CP-21
MW-1D MW-1S MW-2S MW-2D MW-3S MW-3D MW-3B MW-4S MW-4D MW-5S MW-5D MW-6D MW-6S MW-7S MW-7B MW-7I MW-8S MW-8I MW-8B MW-9I MW-9S MW-9B MW-10S MW-10I MW-10D MW-11D MW-11I MW-11S MW-13S MW-13I MW-13D MW-14S MW-14D MW-14I MW-15S MW-15I MW-15D
GMP-1 GMP-3 BM#1
OW-01 OW-02 OW-03 OW-04 EW-01
872.63
850 855 860 865 870 872
1 30+00
1 29+00
1 28+00
1 27+00
1 26+00
1 25+00
1 24+00
1 23+00
122+00
121+00
120+00
372+00
373+00
391+00 390+00 389+00 388+00 387+00 386+00 385+00 384+00 383+00 382+00 381+00 380+00 379+00 378+00 377+00 375+00 374+00
SCALE: 1" = 60'
60 0 60
FINAL TOPO
STOUGHTON CITY LANDFILL
STOUGHTON, WISCONSIN
PROJECT NO. 1764
DRAWN BY: KP
CHECKED BY: SS
DRAWN: 06/06/00 REVISED: 09/05/00
J:\1764\SITE1.DWG
BT² inc.
SHEET 1 OF 1

TABLES

Table 1
Annual Passive Gas Vent Sampling
September 2002
Summa Cannister Field Data
Stoughton City Landfill / BT² Project #1764

Passive Gas Vent GV-4
Start time = 13:10 pm
End Time = 13:40 pm
Starting Vacuum = -29.5" Hg
Vacuum at 10 minutes = -22.5" Hg
Vacuum at 20 minutes = -15" Hg
End Vacuum = -6.5" Hg
Flow = 0 m^3/hr.
Date = 9/26/02

Passive Gas Vent GV-8
Start time = 13:55 pm
End Time = 14:25 pm
Starting Vacuum = -29.5" Hg
Vacuum at 10 minutes = -23" Hg
Vacuum at 20 minutes = -14.5" Hg
End Vacuum = -8" Hg
Flow = 0 m^3/hr.
Date = 9/26/02

Passive Gas Vent GV-14
Start time = 14:40 pm
End Time = 15:10 pm
Starting Vacuum = -29" Hg
Vacuum at 10 minutes = -22" Hg
Vacuum at 20 minutes = -12.5" Hg
End Vacuum = -6.5" Hg
Flow = 0 m^3/hr.
Date = 9/26/02

Passive Gas Vent GV-15
Start time = 15:25 pm
End Time = 15:55 pm
Starting Vacuum = -29.5" Hg
Vacuum at 10 minutes = -22" Hg
Vacuum at 20 minutes = -11" Hg
End Vacuum = -4.5" Hg
Flow = 0 m^3/hr.
Date = 9/26/02

Passive Gas Vent GV-19
Start time = 16:10 pm
End time = 16:40 pm
Starting Vacuum = -29.5" Hg
Vacuum at 10 minutes = -22" Hg
Vacuum at 20 minutes = -11" Hg
End Vacuum = -5.5" Hg
Flow = 0 m^3/hr.
Date =9/26/02

Trip Blank
Cannister #33384
Starting Vacuum = -29.5" Hg

Weather
Date =9/26/02
Barometric Pressure = 29.90" Hg
Temperature = 68 ^{0}F
Ground Surface = Dry
Conditions = Sunny, clear, 5.2 mph wind from the southeast
Equipment = LMS_X Landfill Gas Meter, Thermo Environmental PID
Operator = Steven Smith

Table 2
Annual Landfill Gas Monitoring Results
Stoughton City Landfill
September 2002 Sampling Event
BT² Project #1764

	Sample Name: GV-4		Sample Name: GV-8		Sample Name: GV-14		Sample Name: GV-15		Sample Name: GV-19		Sample Name: Trip Blank		Sample Name: Lab Blank		Sample Name: Lab Blank	
	ID #: 0209571-01A		ID #: 0209571-02A		ID #: 0209571-03A		ID #: 0209571-04A		ID #: 0209571-05A		ID #: 0209571-06A		ID #: 0209571-07A		ID #: 0209571-07B	
Compound	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)	Reporting Limit (ppbv)	Result Amount (ppbv)	Reporting Limit (ppbv)	Result Amount (ppbv)
Freon 12	90	ND	92	860	37	610	22	480	35	110	0.50	ND	0.50	ND	0.50	ND
Freon 114	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Chloromethane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Vinyl chloride	90	ND	92	ND	37	ND	22	54	35	ND	0.50	ND	0.50	ND	0.50	ND
Bromomethane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Chloroethane	90	ND	92	ND	37	ND	22	58	35	ND	0.50	ND	0.50	ND	0.50	ND
Freon 11	90	ND	92	ND	37	200	22	25	35	ND	0.50	ND	0.50	ND	0.50	ND
1,1-Dichloroethene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Freon 113	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Methylene Chloride	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,1-Dichloroethane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
cis-1,2-Dichloroethene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Chloroform	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,1,1-Trichloroethane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Carbon Tetrachloride	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Benzene	90	ND	92	ND	37	ND	22	64	35	ND	0.50	ND	0.50	ND	0.50	ND
1,2-Dichloroethane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Trichloroethene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,2-Dichloropropane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
cis-1,3-Dichloropropene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Toluene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
trans-1,3-Dichloropropene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,1,2-Trichloroethane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Tetrachloroethene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,2-Dibromoethane (EDB)	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Chlorobenzene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Ethylbenzene	90	ND	92	ND	37	ND	22	24	35	ND	0.50	ND	0.50	ND	0.50	ND
m,p-Xylene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
o-Xylene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
Styrene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,1,2,2-Tetrachloroethane	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,3,5-Trimethylbenzene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,2,4-Trimethylbenzene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,3-Dichlorobenzene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,4-Dichlorobenzene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
alpha-Chlorotoluene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,2-Dichlorobenzene	90	ND	92	ND	37	ND	22	ND	35	ND	0.50	ND	0.50	ND	0.50	ND
1,2,4-Trichlorobenzene	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Hexachlorobutadiene	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Propylene	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
1,3-Butadiene	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Acetone	360	ND	370	ND	150	ND	90	1400	140	12000	2.0	ND	2.0	ND	2.0	ND
Carbon Disulfide	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
2-Propanol	360	26000	370	16000	150	9400	90	6900	140	3900	2.0	ND	2.0	ND	2.0	ND
trans-1,2-Dichloroethene	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Vinyl Acetate	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
2-Butanone (Methyl Ethyl Ketone)	360	ND	370	ND	150	ND	90	160	140	300	2.0	ND	2.0	ND	2.0	ND
Hexane	360	ND	370	ND	150	ND	90	3400	140	250	2.0	ND	2.0	ND	2.0	ND
Tetrahydrofuran	360	1100	370	1300	150	640	90	860	140	1100	2.0	ND	2.0	ND	2.0	ND
Cyclohexane	360	ND	370	ND	150	ND	90	250	140	ND	2.0	ND	2.0	ND	2.0	ND
1,4-Dioxane	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Bromodichloromethane	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
4-Methyl-2-pentanone	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
2-Hexanone	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Dibromochloromethane	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Bromoform	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
4-Ethyltoluene	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Ethanol	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Methyl tert-Butyl Ether	360	ND	370	ND	150	ND	90	ND	140	ND	2.0	ND	2.0	ND	2.0	ND
Heptane	360	ND	370	ND	150	ND	90	500	140	ND	2.0	ND	2.0	ND	2.0	ND

ABBREVIATIONS:
NA = Not Applicable
ND = Not Detected

Date: 11/12/02
By: TLR
Checked By: CMW

ATTACHMENT A

Laboratory Analytical Report

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

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

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0209571

Work Order Summary

CLIENT:	Ms. Jan Kucher 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	**P.O. #**	
FAX:	608-224-2839	**PROJECT #**	1764 Stoten City Landfill
DATE RECEIVED:	9/27/02	**CONTACT:**	DeDe Dodge
DATE COMPLETED:	10/11/02		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	GV-4	Modified TO-14	7.5 "Hg
02A	GV-8	Modified TO-14	8.0 "Hg
03A	GV-14	Modified TO-14	8.5 "Hg
04A	GV-15	Modified TO-14	6.0 "Hg
05A	GV-19	Modified TO-14	7.0 "Hg
06A	Trip Blank	Modified TO-14	28.0 "Hg
07A	Lab Blank	Modified TO-14	NA
07B	Lab Blank	Modified TO-14	NA
08A	LCS	Modified TO-14	NA
08B	LCS	Modified TO-14	NA

CERTIFIED BY: Linda J. Fruman DATE: 10/11/02

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, NY NELAP - 11291, UT NELAP - 9166389892, LA NELAP/LELAP- AI 30763
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/02, Expiration date: 06/30/03

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified Method TO-14
BT Squared
Workorder# 0209571

Six 6 Liter Summa Canister samples were received on September 27, 2002. The laboratory performed analysis via modified 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:

Requirement	*TO-14*	*ATL Modifications*
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.
Initial 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

Receiving Notes

The chain of custody information for sample GV-8 did not match the entry on the sample tag. The discrepancy was noted in the Login email and the information on the chain of custody was used to process and report the sample.

The chain of custody was not relinquished properly. The discrepancy was noted in the Login email.

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.

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: GV-4

ID#: 0209571-01A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t101007	Date of Collection:	9/26/02
Dil. Factor:	179	Date of Analysis:	10/10/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	90	450	Not Detected	Not Detected
Freon 114	90	640	Not Detected	Not Detected
Chloromethane	90	190	Not Detected	Not Detected
Vinyl Chloride	90	230	Not Detected	Not Detected
Bromomethane	90	350	Not Detected	Not Detected
Chloroethane	90	240	Not Detected	Not Detected
Freon 11	90	510	Not Detected	Not Detected
1,1-Dichloroethene	90	360	Not Detected	Not Detected
Freon 113	90	700	Not Detected	Not Detected
Methylene Chloride	90	320	Not Detected	Not Detected
1,1-Dichloroethane	90	370	Not Detected	Not Detected
cis-1,2-Dichloroethene	90	360	Not Detected	Not Detected
Chloroform	90	440	Not Detected	Not Detected
1,1,1-Trichloroethane	90	500	Not Detected	Not Detected
Carbon Tetrachloride	90	570	Not Detected	Not Detected
Benzene	90	290	Not Detected	Not Detected
1,2-Dichloroethane	90	370	Not Detected	Not Detected
Trichloroethene	90	490	Not Detected	Not Detected
1,2-Dichloropropane	90	420	Not Detected	Not Detected
cis-1,3-Dichloropropene	90	410	Not Detected	Not Detected
Toluene	90	340	Not Detected	Not Detected
trans-1,3-Dichloropropene	90	410	Not Detected	Not Detected
1,1,2-Trichloroethane	90	500	Not Detected	Not Detected
Tetrachloroethene	90	620	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	90	700	Not Detected	Not Detected
Chlorobenzene	90	420	Not Detected	Not Detected
Ethyl Benzene	90	390	Not Detected	Not Detected
m,p-Xylene	90	400	Not Detected	Not Detected
o-Xylene	90	400	Not Detected	Not Detected
Styrene	90	390	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	90	620	Not Detected	Not Detected
1,3,5-Trimethylbenzene	90	450	Not Detected	Not Detected
1,2,4-Trimethylbenzene	90	450	Not Detected	Not Detected
1,3-Dichlorobenzene	90	550	Not Detected	Not Detected
1,4-Dichlorobenzene	90	550	Not Detected	Not Detected
alpha-Chlorotoluene	90	470	Not Detected	Not Detected
1,2-Dichlorobenzene	90	550	Not Detected	Not Detected
1,2,4-Trichlorobenzene	360	2700	Not Detected	Not Detected
Hexachlorobutadiene	360	3900	Not Detected	Not Detected
Propylene	360	630	Not Detected	Not Detected
1,3-Butadiene	360	800	Not Detected	Not Detected
Acetone	360	860	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-4

ID#: 0209571-01A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t101007	Date of Collection:	9/26/02
Dil. Factor:	179	Date of Analysis:	10/10/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	360	1100	Not Detected	Not Detected
2-Propanol	360	890	26000	64000
trans-1,2-Dichloroethene	360	1400	Not Detected	Not Detected
Vinyl Acetate	360	1300	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	360	1100	Not Detected	Not Detected
Hexane	360	1300	Not Detected	Not Detected
Tetrahydrofuran	360	1100	1100	3300
Cyclohexane	360	1200	Not Detected	Not Detected
1,4-Dioxane	360	1300	Not Detected	Not Detected
Bromodichloromethane	360	2400	Not Detected	Not Detected
4-Methyl-2-pentanone	360	1500	Not Detected	Not Detected
2-Hexanone	360	1500	Not Detected	Not Detected
Dibromochloromethane	360	3100	Not Detected	Not Detected
Bromoform	360	3800	Not Detected	Not Detected
4-Ethyltoluene	360	1800	Not Detected	Not Detected
Ethanol	360	680	Not Detected	Not Detected
Methyl tert-Butyl Ether	360	1300	Not Detected	Not Detected
Heptane	360	1500	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	93	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-8

ID#: 0209571-02A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100916	Date of Collection:	9/26/02
Dil. Factor:	183	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	92	460	860	4300
Freon 114	92	650	Not Detected	Not Detected
Chloromethane	92	190	Not Detected	Not Detected
Vinyl Chloride	92	240	Not Detected	Not Detected
Bromomethane	92	360	Not Detected	Not Detected
Chloroethane	92	240	Not Detected	Not Detected
Freon 11	92	520	Not Detected	Not Detected
1,1-Dichloroethene	92	370	Not Detected	Not Detected
Freon 113	92	710	Not Detected	Not Detected
Methylene Chloride	92	320	Not Detected	Not Detected
1,1-Dichloroethane	92	380	Not Detected	Not Detected
cis-1,2-Dichloroethene	92	370	Not Detected	Not Detected
Chloroform	92	450	Not Detected	Not Detected
1,1,1-Trichloroethane	92	510	Not Detected	Not Detected
Carbon Tetrachloride	92	580	Not Detected	Not Detected
Benzene	92	300	Not Detected	Not Detected
1,2-Dichloroethane	92	380	Not Detected	Not Detected
Trichloroethene	92	500	Not Detected	Not Detected
1,2-Dichloropropane	92	430	Not Detected	Not Detected
cis-1,3-Dichloropropene	92	420	Not Detected	Not Detected
Toluene	92	350	Not Detected	Not Detected
trans-1,3-Dichloropropene	92	420	Not Detected	Not Detected
1,1,2-Trichloroethane	92	510	Not Detected	Not Detected
Tetrachloroethene	92	630	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	92	710	Not Detected	Not Detected
Chlorobenzene	92	430	Not Detected	Not Detected
Ethyl Benzene	92	400	Not Detected	Not Detected
m,p-Xylene	92	400	Not Detected	Not Detected
o-Xylene	92	400	Not Detected	Not Detected
Styrene	92	400	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	92	640	Not Detected	Not Detected
1,3,5-Trimethylbenzene	92	460	Not Detected	Not Detected
1,2,4-Trimethylbenzene	92	460	Not Detected	Not Detected
1,3-Dichlorobenzene	92	560	Not Detected	Not Detected
1,4-Dichlorobenzene	92	560	Not Detected	Not Detected
alpha-Chlorotoluene	92	480	Not Detected	Not Detected
1,2-Dichlorobenzene	92	560	Not Detected	Not Detected
1,2,4-Trichlorobenzene	370	2800	Not Detected	Not Detected
Hexachlorobutadiene	370	4000	Not Detected	Not Detected
Propylene	370	640	Not Detected	Not Detected
1,3-Butadiene	370	820	Not Detected	Not Detected
Acetone	370	880	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-8

ID#: 0209571-02A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100916	Date of Collection:	9/26/02
Dil. Factor:	183	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	370	1200	Not Detected	Not Detected
2-Propanol	370	910	16000	41000
trans-1,2-Dichloroethene	370	1500	Not Detected	Not Detected
Vinyl Acetate	370	1300	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	370	1100	Not Detected	Not Detected
Hexane	370	1300	Not Detected	Not Detected
Tetrahydrofuran	370	1100	1300	4000
Cyclohexane	370	1300	Not Detected	Not Detected
1,4-Dioxane	370	1300	Not Detected	Not Detected
Bromodichloromethane	370	2500	Not Detected	Not Detected
4-Methyl-2-pentanone	370	1500	Not Detected	Not Detected
2-Hexanone	370	1500	Not Detected	Not Detected
Dibromochloromethane	370	3200	Not Detected	Not Detected
Bromoform	370	3800	Not Detected	Not Detected
4-Ethyltoluene	370	1800	Not Detected	Not Detected
Ethanol	370	700	Not Detected	Not Detected
Methyl tert-Butyl Ether	370	1300	Not Detected	Not Detected
Heptane	370	1500	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-14

ID#: 0209571-03A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100917	Date of Collection:	9/26/02
Dil. Factor:	74.8	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	37	190	610	3100
Freon 114	37	260	Not Detected	Not Detected
Chloromethane	37	78	Not Detected	Not Detected
Vinyl Chloride	37	97	Not Detected	Not Detected
Bromomethane	37	150	Not Detected	Not Detected
Chloroethane	37	100	Not Detected	Not Detected
Freon 11	37	210	200	1200
1,1-Dichloroethene	37	150	Not Detected	Not Detected
Freon 113	37	290	Not Detected	Not Detected
Methylene Chloride	37	130	Not Detected	Not Detected
1,1-Dichloroethane	37	150	Not Detected	Not Detected
cis-1,2-Dichloroethene	37	150	Not Detected	Not Detected
Chloroform	37	180	Not Detected	Not Detected
1,1,1-Trichloroethane	37	210	Not Detected	Not Detected
Carbon Tetrachloride	37	240	Not Detected	Not Detected
Benzene	37	120	Not Detected	Not Detected
1,2-Dichloroethane	37	150	Not Detected	Not Detected
Trichloroethene	37	200	Not Detected	Not Detected
1,2-Dichloropropane	37	180	Not Detected	Not Detected
cis-1,3-Dichloropropene	37	170	Not Detected	Not Detected
Toluene	37	140	Not Detected	Not Detected
trans-1,3-Dichloropropene	37	170	Not Detected	Not Detected
1,1,2-Trichloroethane	37	210	Not Detected	Not Detected
Tetrachloroethene	37	260	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	37	290	Not Detected	Not Detected
Chlorobenzene	37	180	Not Detected	Not Detected
Ethyl Benzene	37	160	Not Detected	Not Detected
m,p-Xylene	37	160	Not Detected	Not Detected
o-Xylene	37	160	Not Detected	Not Detected
Styrene	37	160	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	37	260	Not Detected	Not Detected
1,3,5-Trimethylbenzene	37	190	Not Detected	Not Detected
1,2,4-Trimethylbenzene	37	190	Not Detected	Not Detected
1,3-Dichlorobenzene	37	230	Not Detected	Not Detected
1,4-Dichlorobenzene	37	230	Not Detected	Not Detected
alpha-Chlorotoluene	37	200	Not Detected	Not Detected
1,2-Dichlorobenzene	37	230	Not Detected	Not Detected
1,2,4-Trichlorobenzene	150	1100	Not Detected	Not Detected
Hexachlorobutadiene	150	1600	Not Detected	Not Detected
Propylene	150	260	Not Detected	Not Detected
1,3-Butadiene	150	340	Not Detected	Not Detected
Acetone	150	360	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: GV-14

ID#: 0209571-03A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1100917	Date of Collection:	9/26/02
Dil. Factor:	74.8	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	150	470	Not Detected	Not Detected
2-Propanol	150	370	9400	23000
trans-1,2-Dichloroethene	150	600	Not Detected	Not Detected
Vinyl Acetate	150	540	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	150	450	Not Detected	Not Detected
Hexane	150	540	Not Detected	Not Detected
Tetrahydrofuran	150	450	640	1900
Cyclohexane	150	520	Not Detected	Not Detected
1,4-Dioxane	150	550	Not Detected	Not Detected
Bromodichloromethane	150	1000	Not Detected	Not Detected
4-Methyl-2-pentanone	150	620	Not Detected	Not Detected
2-Hexanone	150	620	Not Detected	Not Detected
Dibromochloromethane	150	1300	Not Detected	Not Detected
Bromoform	150	1600	Not Detected	Not Detected
4-Ethyltoluene	150	750	Not Detected	Not Detected
Ethanol	150	290	Not Detected	Not Detected
Methyl tert-Butyl Ether	150	550	Not Detected	Not Detected
Heptane	150	620	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-15

ID#: 0209571-04A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100918	Date of Collection: 9/26/02
Dil. Factor:	44.8	Date of Analysis: 10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	22	110	480	2400
Freon 114	22	160	Not Detected	Not Detected
Chloromethane	22	47	Not Detected	Not Detected
Vinyl Chloride	22	58	54	140
Bromomethane	22	88	Not Detected	Not Detected
Chloroethane	22	60	58	160
Freon 11	22	130	25	140
1,1-Dichloroethene	22	90	Not Detected	Not Detected
Freon 113	22	170	Not Detected	Not Detected
Methylene Chloride	22	79	Not Detected	Not Detected
1,1-Dichloroethane	22	92	Not Detected	Not Detected
cis-1,2-Dichloroethene	22	90	Not Detected	Not Detected
Chloroform	22	110	Not Detected	Not Detected
1,1,1-Trichloroethane	22	120	Not Detected	Not Detected
Carbon Tetrachloride	22	140	Not Detected	Not Detected
Benzene	22	73	64	210
1,2-Dichloroethane	22	92	Not Detected	Not Detected
Trichloroethene	22	120	Not Detected	Not Detected
1,2-Dichloropropane	22	100	Not Detected	Not Detected
cis-1,3-Dichloropropene	22	100	Not Detected	Not Detected
Toluene	22	86	Not Detected	Not Detected
trans-1,3-Dichloropropene	22	100	Not Detected	Not Detected
1,1,2-Trichloroethane	22	120	Not Detected	Not Detected
Tetrachloroethene	22	150	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	22	170	Not Detected	Not Detected
Chlorobenzene	22	100	Not Detected	Not Detected
Ethyl Benzene	22	99	24	110
m,p-Xylene	22	99	Not Detected	Not Detected
o-Xylene	22	99	Not Detected	Not Detected
Styrene	22	97	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	22	160	Not Detected	Not Detected
1,3,5-Trimethylbenzene	22	110	Not Detected	Not Detected
1,2,4-Trimethylbenzene	22	110	Not Detected	Not Detected
1,3-Dichlorobenzene	22	140	Not Detected	Not Detected
1,4-Dichlorobenzene	22	140	Not Detected	Not Detected
alpha-Chlorotoluene	22	120	Not Detected	Not Detected
1,2-Dichlorobenzene	22	140	Not Detected	Not Detected
1,2,4-Trichlorobenzene	90	680	Not Detected	Not Detected
Hexachlorobutadiene	90	970	Not Detected	Not Detected
Propylene	90	160	Not Detected	Not Detected
1,3-Butadiene	90	200	Not Detected	Not Detected
Acetone	90	220	1400	3400

AIR TOXICS LTD.

SAMPLE NAME: GV-15

ID#: 0209571-04A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100918	Date of Collection:	9/26/02
Dil. Factor:	44.8	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	90	280	Not Detected	Not Detected
2-Propanol	90	220	6900	17000
trans-1,2-Dichloroethene	90	360	Not Detected	Not Detected
Vinyl Acetate	90	320	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	90	270	160	480
Hexane	90	320	3400	12000
Tetrahydrofuran	90	270	860	2600
Cyclohexane	90	310	250	860
1,4-Dioxane	90	330	Not Detected	Not Detected
Bromodichloromethane	90	610	Not Detected	Not Detected
4-Methyl-2-pentanone	90	370	Not Detected	Not Detected
2-Hexanone	90	370	Not Detected	Not Detected
Dibromochloromethane	90	780	Not Detected	Not Detected
Bromoform	90	940	Not Detected	Not Detected
4-Ethyltoluene	90	450	Not Detected	Not Detected
Ethanol	90	170	Not Detected	Not Detected
Methyl tert-Butyl Ether	90	330	Not Detected	Not Detected
Heptane	90	370	500	2100

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	110	70-130

AIR TOXICS LTD.

SAMPLE NAME: GV-19

ID#: 0209571-05A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t101008	Date of Collection:	9/26/02
Dil. Factor:	70.0	Date of Analysis:	10/10/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	35	180	110	560
Freon 114	35	250	Not Detected	Not Detected
Chloromethane	35	73	Not Detected	Not Detected
Vinyl Chloride	35	91	Not Detected	Not Detected
Bromomethane	35	140	Not Detected	Not Detected
Chloroethane	35	94	Not Detected	Not Detected
Freon 11	35	200	Not Detected	Not Detected
1,1-Dichloroethene	35	140	Not Detected	Not Detected
Freon 113	35	270	Not Detected	Not Detected
Methylene Chloride	35	120	Not Detected	Not Detected
1,1-Dichloroethane	35	140	Not Detected	Not Detected
cis-1,2-Dichloroethene	35	140	Not Detected	Not Detected
Chloroform	35	170	Not Detected	Not Detected
1,1,1-Trichloroethane	35	190	Not Detected	Not Detected
Carbon Tetrachloride	35	220	Not Detected	Not Detected
Benzene	35	110	Not Detected	Not Detected
1,2-Dichloroethane	35	140	Not Detected	Not Detected
Trichloroethene	35	190	Not Detected	Not Detected
1,2-Dichloropropane	35	160	Not Detected	Not Detected
cis-1,3-Dichloropropene	35	160	Not Detected	Not Detected
Toluene	35	130	Not Detected	Not Detected
trans-1,3-Dichloropropene	35	160	Not Detected	Not Detected
1,1,2-Trichloroethane	35	190	Not Detected	Not Detected
Tetrachloroethene	35	240	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	35	270	Not Detected	Not Detected
Chlorobenzene	35	160	Not Detected	Not Detected
Ethyl Benzene	35	150	Not Detected	Not Detected
m,p-Xylene	35	150	Not Detected	Not Detected
o-Xylene	35	150	Not Detected	Not Detected
Styrene	35	150	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	35	240	Not Detected	Not Detected
1,3,5-Trimethylbenzene	35	170	Not Detected	Not Detected
1,2,4-Trimethylbenzene	35	170	Not Detected	Not Detected
1,3-Dichlorobenzene	35	210	Not Detected	Not Detected
1,4-Dichlorobenzene	35	210	Not Detected	Not Detected
alpha-Chlorotoluene	35	180	Not Detected	Not Detected
1,2-Dichlorobenzene	35	210	Not Detected	Not Detected
1,2,4-Trichlorobenzene	140	1000	Not Detected	Not Detected
Hexachlorobutadiene	140	1500	Not Detected	Not Detected
Propylene	140	240	Not Detected	Not Detected
1,3-Butadiene	140	310	Not Detected	Not Detected
Acetone	140	340	12000	29000

AIR TOXICS LTD.

SAMPLE NAME: GV-19

ID#: 0209571-05A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t101008	Date of Collection:	9/26/02
Dil. Factor:	70.0	Date of Analysis:	10/10/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	140	440	Not Detected	Not Detected
2-Propanol	140	350	3900	9800
trans-1,2-Dichloroethene	140	560	Not Detected	Not Detected
Vinyl Acetate	140	500	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	140	420	300	900
Hexane	140	500	250	910
Tetrahydrofuran	140	420	1100	3400
Cyclohexane	140	490	Not Detected	Not Detected
1,4-Dioxane	140	510	Not Detected	Not Detected
Bromodichloromethane	140	950	Not Detected	Not Detected
4-Methyl-2-pentanone	140	580	Not Detected	Not Detected
2-Hexanone	140	580	Not Detected	Not Detected
Dibromochloromethane	140	1200	Not Detected	Not Detected
Bromoform	140	1500	Not Detected	Not Detected
4-Ethyltoluene	140	700	Not Detected	Not Detected
Ethanol	140	270	Not Detected	Not Detected
Methyl tert-Butyl Ether	140	510	Not Detected	Not Detected
Heptane	140	580	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: Trip Blank

ID#: 0209571-06A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100920	Date of Collection:	9/26/02
Dil. Factor:	1.00	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. 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
1,2-Dibromoethane (EDB)	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
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	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: Trip Blank

ID#: 0209571-06A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100920	Date of Collection:	9/26/02
Dil. Factor:	1.00	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. 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: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	81	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0209571-07A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100905	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. 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
1,2-Dibromoethane (EDB)	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
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	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#: 0209571-07A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100905	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. 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 - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0209571-07B

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t101006	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/10/02

Compound	Rpt. Limit (ppbv)	Rpt. 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
1,2-Dibromoethane (EDB)	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
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	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#: 0209571-07B

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t101006	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/10/02

Compound	Rpt. Limit (ppbv)	Rpt. 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 - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0209571-08A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t100904	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Freon 12	0.50	2.5	120
Freon 114	0.50	3.6	109
Chloromethane	0.50	1.0	112
Vinyl Chloride	0.50	1.3	104
Bromomethane	0.50	2.0	98
Chloroethane	0.50	1.3	94
Freon 11	0.50	2.8	98
1,1-Dichloroethene	0.50	2.0	90
Freon 113	0.50	3.9	86
Methylene Chloride	0.50	1.8	86
1,1-Dichloroethane	0.50	2.0	85
cis-1,2-Dichloroethene	0.50	2.0	92
Chloroform	0.50	2.5	90
1,1,1-Trichloroethane	0.50	2.8	93
Carbon Tetrachloride	0.50	3.2	101
Benzene	0.50	1.6	96
1,2-Dichloroethane	0.50	2.0	85
Trichloroethene	0.50	2.7	94
1,2-Dichloropropane	0.50	2.3	87
cis-1,3-Dichloropropene	0.50	2.3	87
Toluene	0.50	1.9	100
trans-1,3-Dichloropropene	0.50	2.3	85
1,1,2-Trichloroethane	0.50	2.8	86
Tetrachloroethene	0.50	3.4	91
1,2-Dibromoethane (EDB)	0.50	3.9	81
Chlorobenzene	0.50	2.3	93
Ethyl Benzene	0.50	2.2	101
m,p-Xylene	0.50	2.2	116
o-Xylene	0.50	2.2	114
Styrene	0.50	2.2	114
1,1,2,2-Tetrachloroethane	0.50	3.5	86
1,3,5-Trimethylbenzene	0.50	2.5	87
1,2,4-Trimethylbenzene	0.50	2.5	84
1,3-Dichlorobenzene	0.50	3.0	106
1,4-Dichlorobenzene	0.50	3.0	96
alpha-Chlorotoluene	0.50	2.6	95
1,2-Dichlorobenzene	0.50	3.0	100
1,2,4-Trichlorobenzene	2.0	15	81
Hexachlorobutadiene	2.0	22	78
Propylene	2.0	3.5	100
1,3-Butadiene	2.0	4.5	107
Acetone	2.0	4.8	139

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0209571-08A

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	100904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/9/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Carbon Disulfide	2.0	6.3	116
2-Propanol	2.0	5.0	124
trans-1,2-Dichloroethene	2.0	8.0	120
Vinyl Acetate	2.0	7.2	122
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	97
Hexane	2.0	7.2	120
Tetrahydrofuran	2.0	6.0	98
Cyclohexane	2.0	7.0	108
1,4-Dioxane	2.0	7.3	99
Bromodichloromethane	2.0	14	107
4-Methyl-2-pentanone	2.0	8.3	105
2-Hexanone	2.0	8.3	93
Dibromochloromethane	2.0	17	100
Bromoform	2.0	21	95
4-Ethyltoluene	2.0	10	155 Q
Ethanol	2.0	3.8	111
Methyl tert-Butyl Ether	2.0	7.3	106
Heptane	2.0	8.3	108

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0209571-08B

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	1101005	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	10/10/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Freon 12	0.50	2.5	119
Freon 114	0.50	3.6	108
Chloromethane	0.50	1.0	117
Vinyl Chloride	0.50	1.3	105
Bromomethane	0.50	2.0	97
Chloroethane	0.50	1.3	94
Freon 11	0.50	2.8	98
1,1-Dichloroethene	0.50	2.0	89
Freon 113	0.50	3.9	92
Methylene Chloride	0.50	1.8	85
1,1-Dichloroethane	0.50	2.0	85
cis-1,2-Dichloroethene	0.50	2.0	93
Chloroform	0.50	2.5	92
1,1,1-Trichloroethane	0.50	2.8	101
Carbon Tetrachloride	0.50	3.2	110
Benzene	0.50	1.6	97
1,2-Dichloroethane	0.50	2.0	82
Trichloroethene	0.50	2.7	96
1,2-Dichloropropane	0.50	2.3	89
cis-1,3-Dichloropropene	0.50	2.3	88
Toluene	0.50	1.9	97
trans-1,3-Dichloropropene	0.50	2.3	89
1,1,2-Trichloroethane	0.50	2.8	90
Tetrachloroethene	0.50	3.4	92
1,2-Dibromoethane (EDB)	0.50	3.9	84
Chlorobenzene	0.50	2.3	92
Ethyl Benzene	0.50	2.2	101
m,p-Xylene	0.50	2.2	115
o-Xylene	0.50	2.2	111
Styrene	0.50	2.2	110
1,1,2,2-Tetrachloroethane	0.50	3.5	85
1,3,5-Trimethylbenzene	0.50	2.5	80
1,2,4-Trimethylbenzene	0.50	2.5	74
1,3-Dichlorobenzene	0.50	3.0	100
1,4-Dichlorobenzene	0.50	3.0	90
alpha-Chlorotoluene	0.50	2.6	90
1,2-Dichlorobenzene	0.50	3.0	98
1,2,4-Trichlorobenzene	2.0	15	79
Hexachlorobutadiene	2.0	22	68 Q
Propylene	2.0	3.5	99
1,3-Butadiene	2.0	4.5	108
Acetone	2.0	4.8	137

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0209571-08B

MODIFIED EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	t101005	Date of Collection: NA	
Dil. Factor:	4.00	Date of Analysis: 10/10/02	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Carbon Disulfide	2.0	6.3	116
2-Propanol	2.0	5.0	123
trans-1,2-Dichloroethene	2.0	8.0	123
Vinyl Acetate	2.0	7.2	127
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	100
Hexane	2.0	7.2	128
Tetrahydrofuran	2.0	6.0	99
Cyclohexane	2.0	7.0	119
1,4-Dioxane	2.0	7.3	101
Bromodichloromethane	2.0	14	107
4-Methyl-2-pentanone	2.0	8.3	98
2-Hexanone	2.0	8.3	87
Dibromochloromethane	2.0	17	104
Bromoform	2.0	21	94
4-Ethyltoluene	2.0	10	139
Ethanol	2.0	3.8	113
Methyl tert-Butyl Ether	2.0	7.3	112
Heptane	2.0	8.3	101

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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

Contact Person: Shawn Smith
Company: GT? Inc
Address: 2?20 ... City: Madison State: WI Zip: 53...
Phone: (608) 224-2?40 FAX: (608) 221-2839
Collected By: Signature: [illegible]

Project Info:
P.O. #:
Project #: 1764
Project Name: Stoughton City Landfill

Turn Around Time:
☒ Normal
☐ Rush ______ Specify

Lab I.D.	Field Sample I.D.	Date & Time		Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	GV-4	9/1/09	1310	EPA TO-14 VOCs	-29.5	-6.5	[illegible]
02A	GV-8	↓	13:55	↓	-29.5	-2	[illegible]
03A	GV-14		1440		-29	-6.5	[illegible]
04A	GV-15		15:25		-29.5	-4.5	[illegible]
05A	GV-19		16:10		-29.5	-5.5	[illegible]
06A	Trip Blank		11am		-29.5	-29.5	[illegible]

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
[signature]	[signature] ATL 9/3/09 ?35
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

Notes: email address is
ssmith@gt?inc.com
Samples collected ...

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS	1Z E51 03V ??	[illegible]	—	Good	Yes No None	0909571
		1OOM	9/?/?				

BT² inc.

Environmental Engineering and Science

January 8, 2003

Mr. Michael Schmoller
WDNR South Central Region Office
3911 Fish Hatchery Road
Fitchburg, WI 53711

SUBJECT: **Addendum to the Annual Landfill Gas Vent Monitoring Report**
September 2002 Monitoring Event
Stoughton City Landfill
FID # 113005950 - License #133
WDNR Purchase Order #NMC00000112
WDNR Project # J-036-02
BT² Project #1764

Dear Mr. Schmoller:

As discussed with you by phone on January 7, 2003, we are submitting Table 3 for your review. We inadvertently left out Table 3 from the Annual Landfill Gas Vent Monitoring Report dated January 2, 2003. Please call us at (608) 224-2830 if you have any questions.

Sincerely,
BT², Inc.

Sherren Clark, P.E., P.G.
Quality Assurance/ Senior Review

Jan C. Kucher, P.E.
Project Manager

Steven B. Smith
Environmental Specialist

cc: Mr. Bernard Schorle , U.S. EPA Region V Office

Enclosed: Table 3 - Passive Gas Vent Monitoring (9/26/02)

I:\1764\Reports\Gas Vent Reports\Ann.Pass.Gas3_Addendum_030108.wpd

Table 3
Operation and Maintenance Report
Passive Gas Vent Monitoring
Stoughton City Landfill / BT² Project #1764

Probe	% LEL	% Oxygen	PID (ppm)	Gas Flow (m^3/hr)	Other Gasses
GV-1					
GV-2					
GV-3					
GV-4	Start time = 13:10 End time = 13:40	Initial vac. = -29.5 End vac. = -6.5	10 min. vac. = -22.5 20 min. vac. = -15		LEL = 0.0 CO_2 = 9.8% O_2 = 15.1%
GV-5					
GV-6					
GV-7					
GV-8					
GV-9	Start time = 13:53 End time = 14:25	Initial vac. = -29.5 End vac. = -8	10 min. vac. = -23 20 min. vac. = -14.5		LEL = 0.0 CO_2 = 7.9 O_2 = 10.1
GV-10					
GV-11					
GV-12					
GV-13					
GV-14	Start time = 14:40 End time = 15:10	Initial vac. = -29 End vac. = -6.5	10 min. vac. = -22 20 min. vac. = -12.5		LEL = 1.5% CO_2 = 5.0% O_2 = 16.6%
GV-15	Start time = 15:25 End time = 15:55	Initial vac. = -29.5 End vac. = -4.5	10 min. vac. = -22 20 min. vac. = -11		LEL = 21.0% CO_2 = 27.0% O_2 = 0.1%
GV-16					
GV-17					
GV-18					
GV-19	Start time = 16:10 End time = 16:40	Initial vac. = -29.5 End vac. = -5.5	10 min. vac. = -22 20 min. vac. = -11.5		LEL = 3.7% CO_2 = 20.0% O_2 = 2.0%
GV-20					
GV-21					

PID: Thermo (#2) Operator: S. Smith

Barometric Pressure: 29.90 in.

Temperature: 68° F

Ground Surface: Grass covered, dry

Date: 9/26/07

Weather: Sunny, clear

Trip Blank
#33384
Vacuum = -29.5" Hg

Notes:
1. % LEL as measured as Methane.
2. Other gases - detected gases other than % O_2 and % LEL as Methane.