

Appendix B

Laboratory Report – VOC Analysis

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Laboratory Report – VOC Analysis

Laboratory Report 0803666 – Surface Emission Results



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**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0803666AR1

Work Order Summary

CLIENT: Mr. Stephen Bowly
URS Australia
Level 3, 116 Miller Street
North Sydney, NSW, Australia 2060

BILL TO: Mr. Stephen Bowly
URS Australia
Level 3, 116 Miller Street
North Sydney, NSW, Australia 2060

PHONE: 61-2-8925 5500

FAX: 61-2-8925 5555

DATE RECEIVED: 03/31/2008

DATE COMPLETED: 06/05/2008

DATE REISSUED: 06/05/2008

P.O. #

PROJECT # 43217795 General Air Emissions

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	AS_02	Modified TO-15 LL	9.5 "Hg	5 psi
02A	AS_05	Modified TO-15 LL	23.0 "Hg	5 psi
02AA	AS_05 Lab Duplicate	Modified TO-15 LL	23.0 "Hg	5 psi
03A	AS_06	Modified TO-15 LL	4.0 "Hg	5 psi
04A	AS_08	Modified TO-15 LL	1.5 "Hg	5 psi
05A	AS_09	Modified TO-15 LL	2.0 "Hg	5 psi
06A	AS_11	Modified TO-15 LL	8.0 "Hg	5 psi
07A	AS_12	Modified TO-15 LL	10.0 "Hg	5 psi
08A	AS_13	Modified TO-15 LL	6.0 "Hg	5 psi
09A	AS_14	Modified TO-15 LL	1.5 "Hg	5 psi
10A	AS_15	Modified TO-15 LL	9.5 "Hg	5 psi
10AA	AS_15 Lab Duplicate	Modified TO-15 LL	9.5 "Hg	5 psi
11A	AS_17	Modified TO-15 LL	8.5 "Hg	5 psi
12A	AS_18	Modified TO-15 LL	22.5 "Hg	5 psi
13A	AS_47	Modified TO-15 LL	10.0 "Hg	5 psi
14A	AS_88	Modified TO-15 LL	8.0 "Hg	5 psi
15A	QC_01	Modified TO-15 LL	6.0 "Hg	5 psi

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PROJECT # 43217795 General Air Emissions

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
16A	QC_02	Modified TO-15 LL	22.0 "Hg	5 psi
17A	QC_03	Modified TO-15 LL	9.0 "Hg	5 psi
18A	QC_04	Modified TO-15 LL	9.5 "Hg	5 psi
19A	FIELD BLANK	Modified TO-15 LL	5.5 "Hg	5 psi
20A	Lab Blank	Modified TO-15 LL	NA	NA
20B	Lab Blank	Modified TO-15 LL	NA	NA
21A	CCV	Modified TO-15 LL	NA	NA
21B	CCV	Modified TO-15 LL	NA	NA
22A	LCS	Modified TO-15 LL	NA	NA
22B	LCS	Modified TO-15 LL	NA	NA

CERTIFIED BY: 
 Laboratory Director

DATE: 06/05/08

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
 NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
 Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
 Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
 Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards
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 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified TO-15
URS Australia
Workorder# 0803666AR1**

Nineteen 6 Liter Summa Canister (100% Certified) samples were received on March 31, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 1.0 liter 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.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
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

Receiving Notes

The Chain of Custody (COC) information for sample AS_06 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

The Chain of Custody (COC) was not relinquished properly. A signature and date were not provided.

Samples AS_05, AS_18 and QC_02 were received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

THE WORKORDER WAS REISSUED ON 6/5/08 TO REPORT THE ADDITIONAL COMPOUND CUMENE PER CLIENT REQUEST.

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AS_02

Lab ID#: 0803666AR1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethene	0.65	16	2.6	64
Methylene Chloride	1.3	160	4.5	560
Chloroform	0.65	3.8	3.2	19
Trichloroethene	0.65	6.2	3.5	34
1,1,2-Trichloroethane	0.65	0.67	3.6	3.6
Tetrachloroethene	0.65	110	4.4	720
Hexachlorobutadiene	3.3	47	35	500

Client Sample ID: AS_05

Lab ID#: 0803666AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	1.1	2.2	4.0	7.5

Client Sample ID: AS_05 Lab Duplicate

Lab ID#: 0803666AR1-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	1.1	2.5	4.0	8.8

Client Sample ID: AS_06

Lab ID#: 0803666AR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	0.16	0.58	1.0	4.0

Client Sample ID: AS_08

Lab ID#: 0803666AR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.28	0.92	0.98	3.2



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AS_09

Lab ID#: 0803666AR1-05A

No Detections Were Found.

Client Sample ID: AS_11

Lab ID#: 0803666AR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.37	2.2	1.3	7.6

Client Sample ID: AS_12

Lab ID#: 0803666AR1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.40	2.0	1.4	7.2
Chloroform	0.20	1.2	0.98	5.8

Client Sample ID: AS_13

Lab ID#: 0803666AR1-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	0.17	0.32	1.1	2.1

Client Sample ID: AS_14

Lab ID#: 0803666AR1-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.14	0.24	0.76	1.3
Tetrachloroethene	0.14	0.17	0.96	1.1

Client Sample ID: AS_15

Lab ID#: 0803666AR1-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.39	2.6	1.4	8.8
Tetrachloroethene	0.20	0.28	1.3	1.9



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AS_15 Lab Duplicate

Lab ID#: 0803666AR1-10AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.39	2.9	1.4	10
Tetrachloroethene	0.20	0.28	1.3	1.9

Client Sample ID: AS_17

Lab ID#: 0803666AR1-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.37	3.5	1.3	12
Chloroform	0.19	0.34	0.91	1.6

Client Sample ID: AS_18

Lab ID#: 0803666AR1-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	1.1	2.8	3.7	9.6

Client Sample ID: AS_47

Lab ID#: 0803666AR1-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	4.0	420	14	1500
Hexachlorobutadiene	10	22	110	230

Client Sample ID: AS_88

Lab ID#: 0803666AR1-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.37	3.5	1.3	12
Chloroform	0.18	0.22	0.89	1.0

Client Sample ID: QC_01

Lab ID#: 0803666AR1-15A



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: QC_01

Lab ID#: 0803666AR1-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.17	0.37	0.90	2.0

Client Sample ID: QC_02

Lab ID#: 0803666AR1-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	1.0	2.3	3.5	8.2

Client Sample ID: QC_03

Lab ID#: 0803666AR1-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.38	2.2	1.3	7.7
Chloroform	0.19	0.24	0.93	1.2

Client Sample ID: QC_04

Lab ID#: 0803666AR1-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	9.8	2000	34	6800

Client Sample ID: FIELD BLANK

Lab ID#: 0803666AR1-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.33	4.4	1.1	15



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_02

Lab ID#: 0803666AR1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040324r1	Date of Collection: 3/20/08
Dil. Factor:	6.53	Date of Analysis: 4/4/08 01:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.65	Not Detected	1.7	Not Detected
1,1-Dichloroethene	0.65	16	2.6	64
Methylene Chloride	1.3	160	4.5	560
trans-1,2-Dichloroethene	3.3	Not Detected	13	Not Detected
Chloroform	0.65	3.8	3.2	19
Carbon Tetrachloride	0.65	Not Detected	4.1	Not Detected
1,2-Dichloroethane	0.65	Not Detected	2.6	Not Detected
Trichloroethene	0.65	6.2	3.5	34
1,1,2-Trichloroethane	0.65	0.67	3.6	3.6
Tetrachloroethene	0.65	110	4.4	720
1,1,2,2-Tetrachloroethane	0.65	Not Detected	4.5	Not Detected
Hexachlorobutadiene	3.3	47	35	500
cis-1,2-Dichloroethene	0.65	Not Detected	2.6	Not Detected
Cumene	0.65	Not Detected	3.2	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_05

Lab ID#: 0803666AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040325r1	Date of Collection: 3/18/08
Dil. Factor:	5.74	Date of Analysis: 4/4/08 02:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.57	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.57	Not Detected	2.3	Not Detected
Methylene Chloride	1.1	2.2	4.0	7.5
trans-1,2-Dichloroethene	2.9	Not Detected	11	Not Detected
Chloroform	0.57	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.57	Not Detected	3.6	Not Detected
1,2-Dichloroethane	0.57	Not Detected	2.3	Not Detected
Trichloroethene	0.57	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.57	Not Detected	3.1	Not Detected
Tetrachloroethene	0.57	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.57	Not Detected	3.9	Not Detected
Hexachlorobutadiene	2.9	Not Detected	31	Not Detected
cis-1,2-Dichloroethene	0.57	Not Detected	2.3	Not Detected
Cumene	0.57	Not Detected	2.8	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_05 Lab Duplicate

Lab ID#: 0803666AR1-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040318r1	Date of Collection:	3/18/08
Dil. Factor:	5.74	Date of Analysis:	4/3/08 09:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.57	Not Detected	1.5	Not Detected
1,1-Dichloroethene	0.57	Not Detected	2.3	Not Detected
Methylene Chloride	1.1	2.5	4.0	8.8
trans-1,2-Dichloroethene	2.9	Not Detected	11	Not Detected
Chloroform	0.57	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.57	Not Detected	3.6	Not Detected
1,2-Dichloroethane	0.57	Not Detected	2.3	Not Detected
Trichloroethene	0.57	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.57	Not Detected	3.1	Not Detected
Tetrachloroethene	0.57	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.57	Not Detected	3.9	Not Detected
Hexachlorobutadiene	2.9	Not Detected	31	Not Detected
cis-1,2-Dichloroethene	0.57	Not Detected	2.3	Not Detected
Cumene	0.57	Not Detected	2.8	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_06

Lab ID#: 0803666AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040320r1	Date of Collection: 3/18/08
Dil. Factor:	1.55	Date of Analysis: 4/3/08 11:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.16	Not Detected	0.40	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methylene Chloride	0.31	Not Detected	1.1	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Chloroform	0.16	Not Detected	0.76	Not Detected
Carbon Tetrachloride	0.16	Not Detected	0.98	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.63	Not Detected
Trichloroethene	0.16	Not Detected	0.83	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.84	Not Detected
Tetrachloroethene	0.16	0.58	1.0	4.0
1,1,1,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Hexachlorobutadiene	0.78	Not Detected	8.3	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Cumene	0.16	Not Detected	0.76	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	106	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_08

Lab ID#: 0803666AR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040321r1	Date of Collection: 3/19/08
Dil. Factor:	1.41	Date of Analysis: 4/3/08 11:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Methylene Chloride	0.28	0.92	0.98	3.2
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Chloroform	0.14	Not Detected	0.69	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.89	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.57	Not Detected
Trichloroethene	0.14	Not Detected	0.76	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.77	Not Detected
Tetrachloroethene	0.14	Not Detected	0.96	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.97	Not Detected
Hexachlorobutadiene	0.70	Not Detected	7.5	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Cumene	0.14	Not Detected	0.69	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_09

Lab ID#: 0803666AR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040322r1	Date of Collection: 3/19/08
Dil. Factor:	1.44	Date of Analysis: 4/4/08 12:32 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.14	Not Detected	0.37	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
trans-1,2-Dichloroethene	0.72	Not Detected	2.8	Not Detected
Chloroform	0.14	Not Detected	0.70	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.91	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.58	Not Detected
Trichloroethene	0.14	Not Detected	0.77	Not Detected
1,1,2-Trichloroethane	0.14	Not Detected	0.78	Not Detected
Tetrachloroethene	0.14	Not Detected	0.98	Not Detected
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.99	Not Detected
Hexachlorobutadiene	0.72	Not Detected	7.7	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.57	Not Detected
Cumene	0.14	Not Detected	0.71	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	109	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_11

Lab ID#: 0803666AR1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040323r1	Date of Collection: 3/19/08
Dil. Factor:	1.83	Date of Analysis: 4/4/08 01:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.18	Not Detected	0.47	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Methylene Chloride	0.37	2.2	1.3	7.6
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Chloroform	0.18	Not Detected	0.89	Not Detected
Carbon Tetrachloride	0.18	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.74	Not Detected
Trichloroethene	0.18	Not Detected	0.98	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	1.0	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Hexachlorobutadiene	0.92	Not Detected	9.8	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Cumene	0.18	Not Detected	0.90	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_12

Lab ID#: 0803666AR1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040327r1	Date of Collection: 3/17/08
Dil. Factor:	2.01	Date of Analysis: 4/4/08 03:43 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.20	Not Detected	0.51	Not Detected
1,1-Dichloroethene	0.20	Not Detected	0.80	Not Detected
Methylene Chloride	0.40	2.0	1.4	7.2
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Chloroform	0.20	1.2	0.98	5.8
Carbon Tetrachloride	0.20	Not Detected	1.3	Not Detected
1,2-Dichloroethane	0.20	Not Detected	0.81	Not Detected
Trichloroethene	0.20	Not Detected	1.1	Not Detected
1,1,2-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Tetrachloroethene	0.20	Not Detected	1.4	Not Detected
1,1,2,2-Tetrachloroethane	0.20	Not Detected	1.4	Not Detected
Hexachlorobutadiene	1.0	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	0.20	Not Detected	0.80	Not Detected
Cumene	0.20	Not Detected	0.99	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_13

Lab ID#: 0803666AR1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040328r1	Date of Collection: 3/18/08
Dil. Factor:	1.68	Date of Analysis: 4/4/08 04:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Trichloroethene	0.17	Not Detected	0.90	Not Detected
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	0.32	1.1	2.1
1,1,1,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_14

Lab ID#: 0803666AR1-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040329r1	Date of Collection: 3/18/08
Dil. Factor:	1.41	Date of Analysis: 4/4/08 04:57 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Methylene Chloride	0.28	Not Detected	0.98	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Chloroform	0.14	Not Detected	0.69	Not Detected
Carbon Tetrachloride	0.14	Not Detected	0.89	Not Detected
1,2-Dichloroethane	0.14	Not Detected	0.57	Not Detected
Trichloroethene	0.14	0.24	0.76	1.3
1,1,2-Trichloroethane	0.14	Not Detected	0.77	Not Detected
Tetrachloroethene	0.14	0.17	0.96	1.1
1,1,2,2-Tetrachloroethane	0.14	Not Detected	0.97	Not Detected
Hexachlorobutadiene	0.70	Not Detected	7.5	Not Detected
cis-1,2-Dichloroethene	0.14	Not Detected	0.56	Not Detected
Cumene	0.14	Not Detected	0.69	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_15

Lab ID#: 0803666AR1-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040330r1	Date of Collection: 3/18/08
Dil. Factor:	1.96	Date of Analysis: 4/4/08 05:34 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.20	Not Detected	0.50	Not Detected
1,1-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Methylene Chloride	0.39	2.6	1.4	8.8
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Chloroform	0.20	Not Detected	0.96	Not Detected
Carbon Tetrachloride	0.20	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.20	Not Detected	0.79	Not Detected
Trichloroethene	0.20	Not Detected	1.0	Not Detected
1,1,2-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Tetrachloroethene	0.20	0.28	1.3	1.9
1,1,1,2-Tetrachloroethane	0.20	Not Detected	1.3	Not Detected
Hexachlorobutadiene	0.98	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Cumene	0.20	Not Detected	0.96	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_15 Lab Duplicate

Lab ID#: 0803666AR1-10AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040331r1	Date of Collection:	3/18/08
Dil. Factor:	1.96	Date of Analysis:	4/4/08 08:08 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.20	Not Detected	0.50	Not Detected
1,1-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Methylene Chloride	0.39	2.9	1.4	10
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
Chloroform	0.20	Not Detected	0.96	Not Detected
Carbon Tetrachloride	0.20	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.20	Not Detected	0.79	Not Detected
Trichloroethene	0.20	Not Detected	1.0	Not Detected
1,1,2-Trichloroethane	0.20	Not Detected	1.1	Not Detected
Tetrachloroethene	0.20	0.28	1.3	1.9
1,1,1,2-Tetrachloroethane	0.20	Not Detected	1.3	Not Detected
Hexachlorobutadiene	0.98	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Cumene	0.20	Not Detected	0.96	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_17

Lab ID#: 0803666AR1-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040407r1	Date of Collection: 3/17/08
Dil. Factor:	1.87	Date of Analysis: 4/4/08 01:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.19	Not Detected	0.48	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Methylene Chloride	0.37	3.5	1.3	12
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Chloroform	0.19	0.34	0.91	1.6
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.19	Not Detected	0.76	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Hexachlorobutadiene	0.94	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.74	Not Detected
Cumene	0.19	Not Detected	0.92	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_18

Lab ID#: 0803666AR1-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040408r1	Date of Collection: 3/17/08
Dil. Factor:	5.36	Date of Analysis: 4/4/08 02:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.54	Not Detected	1.4	Not Detected
1,1-Dichloroethene	0.54	Not Detected	2.1	Not Detected
Methylene Chloride	1.1	2.8	3.7	9.6
trans-1,2-Dichloroethene	2.7	Not Detected	11	Not Detected
Chloroform	0.54	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.54	Not Detected	3.4	Not Detected
1,2-Dichloroethane	0.54	Not Detected	2.2	Not Detected
Trichloroethene	0.54	Not Detected	2.9	Not Detected
1,1,2-Trichloroethane	0.54	Not Detected	2.9	Not Detected
Tetrachloroethene	0.54	Not Detected	3.6	Not Detected
1,1,1,2-Tetrachloroethane	0.54	Not Detected	3.7	Not Detected
Hexachlorobutadiene	2.7	Not Detected	28	Not Detected
cis-1,2-Dichloroethene	0.54	Not Detected	2.1	Not Detected
Cumene	0.54	Not Detected	2.6	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_47

Lab ID#: 0803666AR1-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040326r1	Date of Collection: 3/20/08
Dil. Factor:	20.1	Date of Analysis: 4/4/08 03:10 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,1-Dichloroethene	2.0	Not Detected	8.0	Not Detected
Methylene Chloride	4.0	420	14	1500
trans-1,2-Dichloroethene	10	Not Detected	40	Not Detected
Chloroform	2.0	Not Detected	9.8	Not Detected
Carbon Tetrachloride	2.0	Not Detected	13	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.1	Not Detected
Trichloroethene	2.0	Not Detected	11	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	Not Detected	14	Not Detected
1,1,1,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Hexachlorobutadiene	10	22	110	230
cis-1,2-Dichloroethene	2.0	Not Detected	8.0	Not Detected
Cumene	2.0	Not Detected	9.9	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_88

Lab ID#: 0803666AR1-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040409r1	Date of Collection: 3/17/08
Dil. Factor:	1.83	Date of Analysis: 4/4/08 03:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.18	Not Detected	0.47	Not Detected
1,1-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Methylene Chloride	0.37	3.5	1.3	12
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Chloroform	0.18	0.22	0.89	1.0
Carbon Tetrachloride	0.18	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.18	Not Detected	0.74	Not Detected
Trichloroethene	0.18	Not Detected	0.98	Not Detected
1,1,2-Trichloroethane	0.18	Not Detected	1.0	Not Detected
Tetrachloroethene	0.18	Not Detected	1.2	Not Detected
1,1,2,2-Tetrachloroethane	0.18	Not Detected	1.2	Not Detected
Hexachlorobutadiene	0.92	Not Detected	9.8	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected	0.72	Not Detected
Cumene	0.18	Not Detected	0.90	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QC_01

Lab ID#: 0803666AR1-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040410r1	Date of Collection: 3/17/08
Dil. Factor:	1.68	Date of Analysis: 4/4/08 04:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.17	Not Detected	0.43	Not Detected
1,1-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.17	Not Detected	0.82	Not Detected
Carbon Tetrachloride	0.17	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.17	Not Detected	0.68	Not Detected
Trichloroethene	0.17	0.37	0.90	2.0
1,1,2-Trichloroethane	0.17	Not Detected	0.92	Not Detected
Tetrachloroethene	0.17	Not Detected	1.1	Not Detected
1,1,2,2-Tetrachloroethane	0.17	Not Detected	1.2	Not Detected
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected
cis-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QC_02

Lab ID#: 0803666AR1-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040411r1	Date of Collection: 3/18/08
Dil. Factor:	5.03	Date of Analysis: 4/4/08 04:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	1.0	2.3	3.5	8.2
trans-1,2-Dichloroethene	2.5	Not Detected	10	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Hexachlorobutadiene	2.5	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Cumene	0.50	Not Detected	2.5	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QC_03

Lab ID#: 0803666AR1-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040412r1	Date of Collection: 3/19/08
Dil. Factor:	1.91	Date of Analysis: 4/4/08 05:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.19	Not Detected	0.49	Not Detected
1,1-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Methylene Chloride	0.38	2.2	1.3	7.7
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
Chloroform	0.19	0.24	0.93	1.2
Carbon Tetrachloride	0.19	Not Detected	1.2	Not Detected
1,2-Dichloroethane	0.19	Not Detected	0.77	Not Detected
Trichloroethene	0.19	Not Detected	1.0	Not Detected
1,1,2-Trichloroethane	0.19	Not Detected	1.0	Not Detected
Tetrachloroethene	0.19	Not Detected	1.3	Not Detected
1,1,2,2-Tetrachloroethane	0.19	Not Detected	1.3	Not Detected
Hexachlorobutadiene	0.96	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected	0.76	Not Detected
Cumene	0.19	Not Detected	0.94	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	104	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QC_04

Lab ID#: 0803666AR1-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040417r1	Date of Collection: 3/20/08
Dil. Factor:	49.0	Date of Analysis: 4/4/08 08:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	4.9	Not Detected	12	Not Detected
1,1-Dichloroethene	4.9	Not Detected	19	Not Detected
Methylene Chloride	9.8	2000	34	6800
trans-1,2-Dichloroethene	24	Not Detected	97	Not Detected
Chloroform	4.9	Not Detected	24	Not Detected
Carbon Tetrachloride	4.9	Not Detected	31	Not Detected
1,2-Dichloroethane	4.9	Not Detected	20	Not Detected
Trichloroethene	4.9	Not Detected	26	Not Detected
1,1,2-Trichloroethane	4.9	Not Detected	27	Not Detected
Tetrachloroethene	4.9	Not Detected	33	Not Detected
1,1,2,2-Tetrachloroethane	4.9	Not Detected	34	Not Detected
Hexachlorobutadiene	24	Not Detected	260	Not Detected
cis-1,2-Dichloroethene	4.9	Not Detected	19	Not Detected
Cumene	4.9	Not Detected	24	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: FIELD BLANK

Lab ID#: 0803666AR1-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040416r1	Date of Collection: 3/14/08
Dil. Factor:	1.64	Date of Analysis: 4/4/08 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.16	Not Detected	0.42	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Methylene Chloride	0.33	4.4	1.1	15
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.16	Not Detected	0.80	Not Detected
Carbon Tetrachloride	0.16	Not Detected	1.0	Not Detected
1,2-Dichloroethane	0.16	Not Detected	0.66	Not Detected
Trichloroethene	0.16	Not Detected	0.88	Not Detected
1,1,2-Trichloroethane	0.16	Not Detected	0.89	Not Detected
Tetrachloroethene	0.16	Not Detected	1.1	Not Detected
1,1,2,2-Tetrachloroethane	0.16	Not Detected	1.1	Not Detected
Hexachlorobutadiene	0.82	Not Detected	8.7	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Cumene	0.16	Not Detected	0.81	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0803666AR1-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040306	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/08 12:39 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	93	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0803666AR1-20B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040406	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/4/08 12:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803666AR1-21A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/08 09:17 AM

Compound	%Recovery
Vinyl Chloride	98
1,1-Dichloroethene	92
Methylene Chloride	92
trans-1,2-Dichloroethene	101
Chloroform	96
Carbon Tetrachloride	104
1,2-Dichloroethane	108
Trichloroethene	99
1,1,2-Trichloroethane	105
Tetrachloroethene	107
1,1,2,2-Tetrachloroethane	100
Hexachlorobutadiene	114
cis-1,2-Dichloroethene	85
Cumene	103

Container Type: NA - Not Applicable

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803666AR1-21B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/4/08 10:17 AM

Compound	%Recovery
Vinyl Chloride	104
1,1-Dichloroethene	95
Methylene Chloride	97
trans-1,2-Dichloroethene	101
Chloroform	96
Carbon Tetrachloride	105
1,2-Dichloroethane	103
Trichloroethene	98
1,1,2-Trichloroethane	104
Tetrachloroethene	105
1,1,2,2-Tetrachloroethane	99
Hexachlorobutadiene	118
cis-1,2-Dichloroethene	92
Cumene	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	105	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803666AR1-22A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/08 10:13 AM

Compound	%Recovery
Vinyl Chloride	92
1,1-Dichloroethene	102
Methylene Chloride	100
trans-1,2-Dichloroethene	100
Chloroform	98
Carbon Tetrachloride	108
1,2-Dichloroethane	111
Trichloroethene	100
1,1,2-Trichloroethane	104
Tetrachloroethene	103
1,1,2,2-Tetrachloroethane	99
Hexachlorobutadiene	113
cis-1,2-Dichloroethene	87
Cumene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	107	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803666AR1-22B

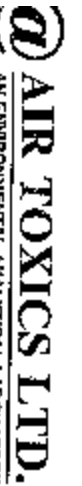
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z040405	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/4/08 11:25 AM

Compound	%Recovery
Vinyl Chloride	98
1,1-Dichloroethene	107
Methylene Chloride	106
trans-1,2-Dichloroethene	101
Chloroform	98
Carbon Tetrachloride	107
1,2-Dichloroethane	107
Trichloroethene	99
1,1,2-Trichloroethane	101
Tetrachloroethene	102
1,1,2,2-Tetrachloroethane	96
Hexachlorobutadiene	111
cis-1,2-Dichloroethene	90
Cumene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	103	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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. 115 (Rev. 1/80) 487-4922.

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Page 1 of 4

Project Person: ALICK BALUARD
 Company: WAS ASSURATAA TRY LTD Email: alick.baluard@wasassurataa.com
 Address: 43. 119 MILLER ST City: ALBERTA SYDNEY State: NSW Zip: 2060
 Phone: 61 2 8925 5725 Fax: 61 2 8925 5555
 Collected by: (signature) [Signature]

Project Info:		Turn Around Time:	Lab Use Only:
P.O. #		<input checked="" type="checkbox"/> Normal	Pressurized by:
Project #	<u>43217795</u>	<input type="checkbox"/> Rush	Date:
Project Name	<u>GENERAL AIR EMISSIONS</u>	Pressurization Gas:	No. _____ file

ab ID	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum
21A	AS-02	4794	20/3/08	09:08 (2hrs)	10 15* Low level + Ambient + Cumulative #	Initial: Final: Receiver: Final (lbs)
22A	AS-05	407	18/3/08	2:21 (2hrs)	10 15* AS Above	>-30 -9
23A	AS-06	34508	18/3/08	09:31 (1.5hrs)	10 15* AS Above	>-30 -27
24A	AS-08	4-22	19/3/08	08:06 (1.5hrs)	10 15* AS Above	>-30 -3.5
25A	AS-09	4642	19/3/08	11:03 (2hrs)	10 15* AS Above	>-30 -3.0
26A	AS-11	5744	19/3/08	07:04 (2hrs)	10 15* AS Above	>-30 -8
27A	AS-12	33669	17/3/08	14:44 (2hrs)	10 15* AS Above	>-30 -10
28A	AS-13	03950	18/3/08	08:46 (2hrs)	10 15* AS Above	>-30 -6
29A	AS-14	20951	18/3/08	13:06 (2hrs)	10 15* AS Above	>-30 -2.5
30A	AS-15	10781	18/3/08	15:16 (2hrs)	10 15* AS Above	>-30 -9.5

Relinquished by: (signature) [Signature] Date/Time _____
 Relinquished by: (signature) [Signature] Date/Time _____
 Received by: (signature) [Signature] Date/Time _____
 Received by: (signature) [Signature] Date/Time _____

Notes: * SEE ATTACHED NOTES
 ** SEE ATTACHED NOTES

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

ab Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seats Intact?	Work Order #
<u>Fed Ex</u>		<u>N/A</u>	<u>Good</u>	<u>None</u>	<u>0803666</u>

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CHAIN-OF-CUSTODY RECORD

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Page 2 of 4

Trace Person: Alec BACARDI

Company: AUSTRIA RY CO Email: alec.bacardi@astria.com

Address: 116 POWER ST City: ALBANY SYDNEY STATE NSW Zip: 2060

Phone: 61 2 8915 5725 Fax: 61 2 8915 5555

Collected by: (signature) [Signature]

Project Info:		Turn Around Time:	
P.O. #		<input checked="" type="checkbox"/> Normal	Pressurized by: _____
Project # <u>4327795</u>		<input type="checkbox"/> Rush	Date: _____
Project Name <u>General Air Emissions</u>		Pressurization Gas: _____	_____
		N ₂ He	

Lab ID	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum		
						Initial	Final	Receipt Final (psi)
1A	AS-17	9756	17/3/08	11:08 (2hrs)	TO15 Low level + Acrolein	>-30	-11	
2A	AS-18	34217	17/3/08	14:16 (2hrs)	TO15 LL AS Above + TO15 + CUMENE	>-30	-23	
3A	AS-47	417	20/3/08	09:19 (2hrs)	TO15 LL AS Above + Acrolein	>-30	-11.5	
4A	AS-88	5755	17/3/08	11:27 (2hrs)	TO15 LL AS Above	>-30	-9	
5A	AC-01	33546	17/3/08	14:44 (2hrs)	TO15 LL AS Above	>-30	-7.5	
6A	AC-02	5780	18/3/08	3:06 (2hrs)	TO15 LL AS Above	-19	-22	
7A	AC-03	14880	19/3/08	09:04 (2hrs)	TO15 LL AS Above	>-30	-9	
8A	AC-04	33906	20/3/08	08:56 (2hrs)	TO15 LL AS Above	-30	-9.5	

Relinquished by: (signature) [Signature] Date/Time _____
 Received by: (signature) MORNER Date/Time 17/3/08 9:00
 Notes: # See attached notes
** See attached notes

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Shipper Name: <u>Fed Ex</u>	Air Bill #	Temp (°C): <u>NA</u>	Condition: <u>Good</u>	Customer Seals Intact? <u>None</u>	Work Order # <u>0803666</u>
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FORM AT REQUIRED = EXCESS

***TO15 ANALYSIS TO INCLUDE THE FOLLOWING ONLY:**

- chloroethene (vinyl chloride);
- carbon tetrachloride;
- 1,2-dichloroethane (EDC);
- dichloromethane (methylene chloride);
- chloroform;
- tetrachloroethene (PCE);
- 1,1,2,2-tetrachloroethane;
- trichloroethene (TCE);
- 1,1,2-trichloroethane;
- *cis*-1,2-dichloroethene;
- *trans*-1,2-dichloroethene;
- 1,1-dichloroethene; and
- hexachlorobutadiene (HCBD).

****TO12 ANALYSIS TO INCLUDE THE FOLLOWING METHOD:**

- Method: TO12 (B.P Dist C2 -C12+) TNMEOC ref to Heptane

Appendix B

Laboratory Report – VOC Analysis

Laboratory Report 0805088 – Soil Gas Results



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).

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




AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805088

Work Order Summary

CLIENT:	Mr. Stephen Bowly URS Australia Level 3, 116 Miller Street North Sydney, NSW, Australia 2060	BILL TO:	Mr. Stephen Bowly URS Australia Level 3, 116 Miller Street North Sydney, NSW, Australia 2060
PHONE:	61-2-8925 5500	P.O. #	
FAX:	61-2-8925 5555	PROJECT #	43217795 General Air Emissions
DATE RECEIVED:	05/05/2008	CONTACT:	Kelly Buettner
DATE COMPLETED:	05/12/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	AS_88_01/05/08	Modified TO-15	10.0 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 05/12/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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LABORATORY NARRATIVE
Modified TO-15
URS Australia
Workorder# 0805088

One 6 Liter Summa Canister (100% Certified) sample was received on May 05, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 1.0 liter 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.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	+/- 30% RSD with 2 compounds allowed out to < 40% RSD	30% RSD with 4 compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	<= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases
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

Receiving Notes

The Chain of Custody (COC) information for sample AS_88_01/05/08 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AS_88_01/05/08

Lab ID#: 0805088-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Chloroform	0.40	3.4	2.0	16
Carbon Tetrachloride	0.40	0.41	2.5	2.6
Trichloroethene	0.40	21	2.2	110
Tetrachloroethene	0.40	68	2.7	460



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_88_01/05/08

Lab ID#: 0805088-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y050813	Date of Collection:	5/1/08
Dil. Factor:	4.02	Date of Analysis:	5/8/08 06:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.40	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.40	Not Detected	1.6	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	8.0	Not Detected
Chloroform	0.40	3.4	2.0	16
Carbon Tetrachloride	0.40	0.41	2.5	2.6
1,2-Dichloroethane	0.40	Not Detected	1.6	Not Detected
Trichloroethene	0.40	21	2.2	110
1,1,2-Trichloroethane	0.40	Not Detected	2.2	Not Detected
Tetrachloroethene	0.40	68	2.7	460
1,1,2,2-Tetrachloroethane	0.40	Not Detected	2.8	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	0.40	Not Detected	1.6	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805088-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y050810	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 04:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	89	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805088-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y050803	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 09:50 AM

Compound	%Recovery
Vinyl Chloride	90
1,1-Dichloroethene	109
Methylene Chloride	115
trans-1,2-Dichloroethene	111
Chloroform	106
Carbon Tetrachloride	102
1,2-Dichloroethane	116
Trichloroethene	106
1,1,2-Trichloroethane	116
Tetrachloroethene	112
1,1,2,2-Tetrachloroethane	111
Hexachlorobutadiene	95
cis-1,2-Dichloroethene	95

Container Type: NA - Not Applicable

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805088-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	y050804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 10:38 AM

Compound	%Recovery
Vinyl Chloride	82
1,1-Dichloroethene	109
Methylene Chloride	113
trans-1,2-Dichloroethene	101
Chloroform	98
Carbon Tetrachloride	96
1,2-Dichloroethane	109
Trichloroethene	100
1,1,2-Trichloroethane	102
Tetrachloroethene	100
1,1,2,2-Tetrachloroethane	97
Hexachlorobutadiene	78
cis-1,2-Dichloroethene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	96	70-130

NOTES

***TO15 ANALYSIS TO INCLUDE THE FOLLOWING ONLY:**

- **chloroethene (vinyl chloride);**
- **carbon tetrachloride;**
- **1,2-dichloroethane (EDC);**
- **dichloromethane (methylene chloride);**
- **chloroform;**
- **tetrachloroethene (PCE);**
- **1,1,2,2-tetrachloroethane;**
- **trichloroethene (TCE);**
- **1,1,2-trichloroethane;**
- ***cis*-1,2-dichloroethene;**
- ***trans*-1,2-dichloroethene;**
- **1,1-dichloroethene; and**
- **hexachlorobutadiene (HCBd).**