

Appendix C

Laboratory Report – TPH Analysis



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**



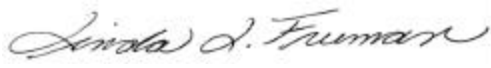
AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0803666B

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:	03/31/2008	CONTACT:	Kelly Buettner
DATE COMPLETED:	04/09/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	AS_02	Modified TO-12	9.5 "Hg	5 psi
01AA	AS_02 Lab Duplicate	Modified TO-12	9.5 "Hg	5 psi
13A	AS_47	Modified TO-12	10.0 "Hg	5 psi
14A	Lab Blank	Modified TO-12	NA	NA
15A	LCS	Modified TO-12	NA	NA

CERTIFIED BY:  DATE: 04/09/08

Laboratory Director

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

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, 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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LABORATORY NARRATIVE
Modified TO-12
URS Australia
Workorder# 0803666B

Two 6 Liter Summa Canister (100% Certified) samples were received on March 31, 2008. The laboratory performed analysis via modified EPA Method TO-12 for Boiling Point Distribution. The Boiling Point Distribution was analyzed via GC/FID and involves concentrating up to 200 mL of sample. The retention times of each hydrocarbon range are determined by the analysis of a C2 to C12 alkane mix. Peaks in each range are summed and the corresponding hydrocarbon range is calculated using the response of Heptane. In this manner, the Boiling Point Distribution represents a fraction of the total NMOC. Summation of each fraction yields the total reported NMOC result.

<i>Requirement</i>	<i>Method TO-12</i>	<i>ATL Modifications</i>
Reporting Limit	0.02 ppmc	0.010 ppmv
Calibration Standard	Propane	Heptane
Reported Units	Ppmc	Ppmv
Initial Calibration	Five levels - each level three runs with % RSD < 3 %; Linearity criterion not specified.	Minimum of three levels; % RSD <= 30 %.
Sample Analysis Frequency	Duplicate analysis with RPD <5 %, report average results of two analyses.	Single analysis. Duplicate 10 % of samples with RPD <= 25% for detections > 5 X's the RL.

Receiving Notes

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

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Six qualifiers may have been used on the Analysis sheets and indicate 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.

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



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Summary of Detected Compounds MODIFIED EPA METHOD TO-12 GC/FID

Client Sample ID: AS_02

Lab ID#: 0803666B-01A

Compound	Rpt. Limit (ppmv)	Amount (ppmv)
C6 Hydrocarbons ref. to Heptane	0.020	0.046
C9 Hydrocarbons ref. to Heptane	0.020	0.057
C12+ Hydrocarbons ref. to Heptane	0.020	0.038
NMEOC ref. to Heptane (MW=100)	0.020	0.17

Client Sample ID: AS_02 Lab Duplicate

Lab ID#: 0803666B-01AA

Compound	Rpt. Limit (ppmv)	Amount (ppmv)
C6 Hydrocarbons ref. to Heptane	0.020	0.038
C9 Hydrocarbons ref. to Heptane	0.020	0.048
C12+ Hydrocarbons ref. to Heptane	0.020	0.032
NMEOC ref. to Heptane (MW=100)	0.020	0.14

Client Sample ID: AS_47

Lab ID#: 0803666B-13A

Compound	Rpt. Limit (ppmv)	Amount (ppmv)
C6 Hydrocarbons ref. to Heptane	0.020	0.083
NMEOC ref. to Heptane (MW=100)	0.020	0.12



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Client Sample ID: AS_02

Lab ID#: 0803666B-01A

MODIFIED EPA METHOD TO-12 GC/FID

File Name:	d040305	Date of Collection:	3/20/08
Dil. Factor:	1.96	Date of Analysis:	4/3/08 03:44 AM

Compound	Rpt. Limit (ppmv)	Amount (ppmv)
C2-C4 Hydrocarbons ref. to Heptane	0.020	Not Detected
C5 Hydrocarbons ref. to Heptane	0.020	Not Detected
C6 Hydrocarbons ref. to Heptane	0.020	0.046
C7 Hydrocarbons ref. to Heptane	0.020	Not Detected
C8 Hydrocarbons ref. to Heptane	0.020	Not Detected
C9 Hydrocarbons ref. to Heptane	0.020	0.057
C10 Hydrocarbons ref. to Heptane	0.020	Not Detected
C11 Hydrocarbons ref. to Heptane	0.020	Not Detected
C12+ Hydrocarbons ref. to Heptane	0.020	0.038
NMEOC ref. to Heptane (MW=100)	0.020	0.17

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_02 Lab Duplicate

Lab ID#: 0803666B-01AA

MODIFIED EPA METHOD TO-12 GC/FID

File Name:	d040307	Date of Collection: 3/20/08
Dil. Factor:	1.96	Date of Analysis: 4/3/08 06:10 AM

Compound	Rpt. Limit (ppmv)	Amount (ppmv)
C2-C4 Hydrocarbons ref. to Heptane	0.020	Not Detected
C5 Hydrocarbons ref. to Heptane	0.020	Not Detected
C6 Hydrocarbons ref. to Heptane	0.020	0.038
C7 Hydrocarbons ref. to Heptane	0.020	Not Detected
C8 Hydrocarbons ref. to Heptane	0.020	Not Detected
C9 Hydrocarbons ref. to Heptane	0.020	0.048
C10 Hydrocarbons ref. to Heptane	0.020	Not Detected
C11 Hydrocarbons ref. to Heptane	0.020	Not Detected
C12+ Hydrocarbons ref. to Heptane	0.020	0.032
NMEOC ref. to Heptane (MW=100)	0.020	0.14

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AS_47

Lab ID#: 0803666B-13A

MODIFIED EPA METHOD TO-12 GC/FID

File Name:	d040306	Date of Collection:	3/20/08
Dil. Factor:	2.01	Date of Analysis:	4/3/08 04:15 AM

Compound	Rpt. Limit (ppmv)	Amount (ppmv)
C2-C4 Hydrocarbons ref. to Heptane	0.020	Not Detected
C5 Hydrocarbons ref. to Heptane	0.020	Not Detected
C6 Hydrocarbons ref. to Heptane	0.020	0.083
C7 Hydrocarbons ref. to Heptane	0.020	Not Detected
C8 Hydrocarbons ref. to Heptane	0.020	Not Detected
C9 Hydrocarbons ref. to Heptane	0.020	Not Detected
C10 Hydrocarbons ref. to Heptane	0.020	Not Detected
C11 Hydrocarbons ref. to Heptane	0.020	Not Detected
C12+ Hydrocarbons ref. to Heptane	0.020	Not Detected
NMEOC ref. to Heptane (MW=100)	0.020	0.12

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



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Client Sample ID: Lab Blank

Lab ID#: 0803666B-14A

MODIFIED EPA METHOD TO-12 GC/FID

File Name:	d040304a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/08 01:49 AM

Compound	Rpt. Limit (ppmv)	Amount (ppmv)
C2-C4 Hydrocarbons ref. to Heptane	0.010	Not Detected
C5 Hydrocarbons ref. to Heptane	0.010	Not Detected
C6 Hydrocarbons ref. to Heptane	0.010	Not Detected
C7 Hydrocarbons ref. to Heptane	0.010	Not Detected
C8 Hydrocarbons ref. to Heptane	0.010	Not Detected
C9 Hydrocarbons ref. to Heptane	0.010	Not Detected
C10 Hydrocarbons ref. to Heptane	0.010	Not Detected
C11 Hydrocarbons ref. to Heptane	0.010	Not Detected
C12+ Hydrocarbons ref. to Heptane	0.010	Not Detected
NMEOC ref. to Heptane (MW=100)	0.010	Not Detected

Container Type: NA - Not Applicable



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Client Sample ID: LCS

Lab ID#: 0803666B-15A

MODIFIED EPA METHOD TO-12 GC/FID

File Name:	d040316	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/3/08 07:01 PM

Compound	%Recovery
Heptane	86

Container Type: NA - Not Applicable



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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. Hotline (800) 467-4922.

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Contact Person NICK BAYLARD

Company AIR TOXICS LTD Email nick.baylard@airtoxics.com

Address 3116 MILLER ST CITY NORTH STARBUCK STATE ZIP 20650

Phone 612 8925 5725 Fax 612 8925 5555

Collected by: (signature) Nick Baylard

Project Info:

P.O. # _____

Project # 43217795

Project Name Genetic Air Emissions

Turn Around Time: _____
Lab Use Only

Pressurized by: _____

Normal

Date: _____

Rush

Pressurization Gas: _____

specify _____ No. _____ He. _____

Canister Pressure/Vacuum

Lab ID	Field Sample ID (Location)	Canf	Date	Time	Analyses Requested	Initial			Final		
						Initial	Final	Receipt	Initial	Final	Receipt

AS-02	AS-02	46784	10/13/08	09:08 (12h)	TO 15' low level + Above Above + <u>Granular +</u>	7-30	-9				
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AS-05	AS-05	4407	18/13/08	12:21 (12h)	TO 15' low level + Above Above	2-30	-27				
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AS-06	AS-06	34508	18/13/08	09:31 (12h)	TO 15' low level + Above Above	2-30	-35				
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AS-08	AS-08	4221	19/13/08	08:06 (12h)	TO 15' low level + Above Above	2-30	-30				
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AS-09	AS-09	5842	09/13/08	11:03 (2h)	TO 15' low level + Above Above	2-30	-30				
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AS-11	AS-11	5744	09/13/08	09:04 (2h)	TO 15' low level + Above Above	2-30	-8				
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AS-12	AS-12	33569	17/13/08	14:44 (2h)	TO 15' low level + Above Above	2-30	-10				
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AS-13	AS-13	03450	18/13/08	08:46 (2h)	TO 15' low level + Above Above	2-30	-6				
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AS-14	AS-14	20951	18/13/08	3:06 (2h)	TO 15' low level + Above Above	2-30	-4				
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AS-15	AS-15	10781	18/13/08	15:16 (2h)	TO 15' low level + Above Above	2-30	-9.5				
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Relinquished by: (signature) _____ Date/Time _____

Received by: (signature) _____ Date/Time _____

Notes: * SEE ATTACHED NOTES ** SEE ATTACHED NOTES.

Relinquished by: (signature) _____ Date/Time _____

Received by: (signature) _____ Date/Time _____

Relinquished by: (signature) _____ Date/Time _____

Received by: (signature) _____ Date/Time _____

Shipper Name: _____ Air Bill #: _____ Temp (°C): _____ Condition: _____ Customer Seals Intact? _____ Work-Order #: _____

Use Only: Fed Ex Temp NV Good Yes No None 0803666

FORMAT REQUIRED = EXACT



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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Contact Person Alicia SANCHEZ

Company AUSTRAIR Pty LTD Email rick_baker@ausair.com.au

Address 13 HILLMEIER ST CITY WEST SYDNEY State NSW ZIP 2060

Phone 61 2 8915 5715 Fax 61 2 8925 5555

Collected by: (signature) [Signature]

Project Info: P.O. # _____
 Project # 4321795
 Project Name General Air Emissions
 Turn Around Time: Normal Rush
 Pressurized by: _____
 Pressurization Gas: _____
 Canister Pressure/Vacuum: _____

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Initial	Final	Receipt	Final Test
AS_17		5756	17/3/08	10:08 (2nd)	TO15 Low Level + As Above AS	2-30	-11		
AS_18		34217	17/3/08	14:16 (2nd)	TO15 LC AS Above + TO15 LC + cum sum + As Above + As Above	2-30	-23		
BA AS_47		417	20/3/08	09:14 (2nd)	TO15 LC AS Above + As Above	2-30	-14.5		
AS_88		5555	17/3/08	15:27 (2nd)	TO15 LC AS Above	2-30	-9		
QC-01		33546	17/3/08	14:44 (2nd)	TO15 LC AS Above	2-30	-7.5		
QC-02		5780	18/3/08	15:06 (2nd)	TO15 LC AS Above	2-29	-22		
QC-03		14980	19/3/08	09:07 (2nd)	TO15 LC AS Above	2-30	-9		
QC-04		33906	20/3/08	08:56 (2nd)	TO15 LC AS Above	2-30	-9.5		

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

Shipper Name [Name] Air Bill # _____ Temp (C) N/A Condition Good Customer Seals Intact? Yes No None
 Work Order # 0803666

Form AT REQUIRED = EQUSS