

**Appendix D**

**Laboratory Report – SVOC Analysis**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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## **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  
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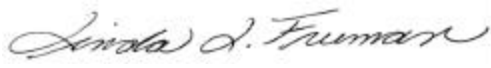
AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0803666C**

Work Order Summary

<b>CLIENT:</b>	Mr. Stephen Bowly URS Australia Level 3, 116 Miller Street North Sydney, NSW, Australia 2060	<b>BILL TO:</b>	Mr. Stephen Bowly URS Australia Level 3, 116 Miller Street North Sydney, NSW, Australia 2060
<b>PHONE:</b>	61-2-8925 5500	<b>P.O. #</b>	
<b>FAX:</b>	61-2-8925 5555	<b>PROJECT #</b>	43217795 General Air Emissions
<b>DATE RECEIVED:</b>	03/31/2008	<b>CONTACT:</b>	Kelly Buettner
<b>DATE COMPLETED:</b>	04/21/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>
01A	PUF_AS_02	Modified TO-13A
01AA	PUF_AS_02 Lab Duplicate	Modified TO-13A
02A	PUF_AS_47	Modified TO-13A
03A	PUF_QC_01	Modified TO-13A
04A	Lab Blank	Modified TO-13A
05A	LCS	Modified TO-13A

CERTIFIED BY:  DATE: 04/21/08

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-13A**  
**URS Australia**  
**Workorder# 0803666C**

Three PUF/XAD Cartridge-Low Volume samples were received on March 31, 2008. The laboratory performed the analysis for polycyclic aromatic hydrocarbons in air by modified EPA Method TO-13A. The PUF/XAD samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. The sample extract was then concentrated to 1.0 mL and analyzed by GC/MS in the full scan mode.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-13A</i>	<i>ATL Modifications</i>
Extraction Solvent	10% ether in hexane for PUF; DCM for XAD sorbent. Final extract in hexane.	DCM for PUF/XAD cartridge and XAD sorbent. Final extract in DCM.
Glassware Cleaning	Muffle furnace is utilized.	Solvent cleaning procedure is used.
Extraction technique	Soxhlet extraction	Soxhlet extraction or pressurized fluid extraction (PFE).
Calibration range	0.10 to 2.5 ug/mL	1.0 ug/mL to 160 ug/mL
Field surrogates	Deuterated PAHs are spiked on media prior to sampling.	Performed by client request only.
Solvent Process Blank	Required each analytical batch.	Not performed; each solvent lot is certified prior to use.
Method Blank	<Method Detection Limit	<Reporting Limit

**Receiving Notes**

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

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

Samples were received past the recommended hold time of 7 days. Analysis proceeded.

**Analytical Notes**

There were no analytical discrepancies.

**Definition of Data Qualifying Flags**

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

- E - Exceeds instrument calibration range.
- Q - Exceeds quality control limits.
- S - Saturated peak.

J - Estimated value.

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

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



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## Summary of Detected Compounds MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Client Sample ID: PUF\_AS\_02

Lab ID#: 0803666C-01A

Compound	Rpt. Limit (ug)	Amount (ug)
Hexachloroethane	1.0	13
Hexachlorobutadiene	1.0	95

Client Sample ID: PUF\_AS\_02 Lab Duplicate

Lab ID#: 0803666C-01AA

Compound	Rpt. Limit (ug)	Amount (ug)
Hexachloroethane	1.0	14
Hexachlorobutadiene	1.0	93

Client Sample ID: PUF\_AS\_47

Lab ID#: 0803666C-02A

Compound	Rpt. Limit (ug)	Amount (ug)
Hexachlorobutadiene	1.0	43

Client Sample ID: PUF\_QC\_01

Lab ID#: 0803666C-03A

Compound	Rpt. Limit (ug)	Amount (ug)
Hexachloroethane	1.0	12
Hexachlorobutadiene	1.0	82



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_AS\_02

Lab ID#: 0803666C-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041618	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 08:12 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Pentachlorobenzene	1.0	Not Detected
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	13
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
Benzoic Acid	30	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	95
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_AS\_02

Lab ID#: 0803666C-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041618	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 08:12 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	50-150
Phenol-d5	89	50-150
Nitrobenzene-d5	84	50-150
2,4,6-Tribromophenol	82	50-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: PUF\_AS\_02**

**Lab ID#: 0803666C-01A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

<b>File Name:</b>	<b>p041618</b>	<b>Date of Collection:</b> 3/20/08
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 4/16/08 08:12 PM
		<b>Date of Extraction:</b> 4/7/08

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorene-d10	79	60-120
Pyrene-d10	80	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_AS\_02 Lab Duplicate

Lab ID#: 0803666C-01AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041619	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 08:41 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Pentachlorobenzene	1.0	Not Detected
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	14
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
Benzoic Acid	30	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	93
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_AS\_02 Lab Duplicate

Lab ID#: 0803666C-01AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041619	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 08:41 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	50-150
Phenol-d5	89	50-150
Nitrobenzene-d5	85	50-150
2,4,6-Tribromophenol	82	50-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: PUF\_AS\_02 Lab Duplicate**

**Lab ID#: 0803666C-01AA**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

<b>File Name:</b>	<b>p041619</b>	<b>Date of Collection:</b> 3/20/08
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 4/16/08 08:41 PM
		<b>Date of Extraction:</b> 4/7/08

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorene-d10	80	60-120
Pyrene-d10	82	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_AS\_47

Lab ID#: 0803666C-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041620	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 09:11 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Pentachlorobenzene	1.0	Not Detected
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
Benzoic Acid	30	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	43
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_AS\_47

Lab ID#: 0803666C-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041620	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 09:11 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	78	50-150
Phenol-d5	86	50-150
Nitrobenzene-d5	80	50-150
2,4,6-Tribromophenol	77	50-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: PUF\_AS\_47**

**Lab ID#: 0803666C-02A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

<b>File Name:</b>	<b>p041620</b>	<b>Date of Collection:</b> 3/20/08
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 4/16/08 09:11 PM
		<b>Date of Extraction:</b> 4/7/08

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorene-d10	75	60-120
Pyrene-d10	82	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_QC\_01

Lab ID#: 0803666C-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041621	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 09:40 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Pentachlorobenzene	1.0	Not Detected
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	12
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
Benzoic Acid	30	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	82
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PUF\_QC\_01

Lab ID#: 0803666C-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041621	Date of Collection:	3/20/08
Dil. Factor:	1.00	Date of Analysis:	4/16/08 09:40 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Container Type: PUF/XAD Cartridge-Low Volume

Surrogates	%Recovery	Method Limits
2-Fluorophenol	75	50-150
Phenol-d5	83	50-150
Nitrobenzene-d5	75	50-150
2,4,6-Tribromophenol	76	50-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: PUF\_QC\_01**

**Lab ID#: 0803666C-03A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

<b>File Name:</b>	<b>p041621</b>	<b>Date of Collection:</b> 3/20/08
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 4/16/08 09:40 PM
		<b>Date of Extraction:</b> 4/7/08

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorene-d10	75	60-120
Pyrene-d10	78	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0803666C-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041616	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/16/08 07:13 PM
		Date of Extraction:	4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Pentachlorobenzene	1.0	Not Detected
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
bis(2-Chloroisopropyl) Ether	1.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
Benzoic Acid	30	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0803666C-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

<b>File Name:</b>	<b>p041616</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 4/16/08 07:13 PM
		<b>Date of Extraction:</b> 4/7/08

Compound	Rpt. Limit (ug)	Amount (ug)
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	50-150
Phenol-d5	81	50-150
Nitrobenzene-d5	70	50-150
2,4,6-Tribromophenol	64	50-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Lab Blank**

**Lab ID#: 0803666C-04A**

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

<b>File Name:</b>	<b>p041616</b>	<b>Date of Collection:</b> NA
<b>Dil. Factor:</b>	<b>1.00</b>	<b>Date of Analysis:</b> 4/16/08 07:13 PM
		<b>Date of Extraction:</b> 4/7/08

<b>Surrogates</b>	<b>%Recovery</b>	<b>Method Limits</b>
Fluorene-d10	70	60-120
Pyrene-d10	72	60-120



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803666C-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041617	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/08 07:43 PM
		Date of Extraction: 4/7/08

Compound	%Recovery
Pentachlorobenzene	Not Spiked
Phenol	76
bis(2-Chloroethyl) Ether	Not Spiked
2-Chlorophenol	71
1,3-Dichlorobenzene	Not Spiked
1,4-Dichlorobenzene	66
1,2-Dichlorobenzene	Not Spiked
2-Methylphenol (o-Cresol)	Not Spiked
bis(2-Chloroisopropyl) Ether	Not Spiked
N-Nitroso-di-n-propylamine	78
4-Methylphenol/3-Methylphenol	Not Spiked
Hexachloroethane	Not Spiked
Nitrobenzene	Not Spiked
Isophorone	Not Spiked
2-Nitrophenol	Not Spiked
2,4-Dimethylphenol	Not Spiked
Benzoic Acid	Not Spiked
bis(2-Chloroethoxy) Methane	Not Spiked
2,4-Dichlorophenol	Not Spiked
1,2,4-Trichlorobenzene	70
Naphthalene	Not Spiked
4-Chloroaniline	Not Spiked
Hexachlorobutadiene	Not Spiked
4-Chloro-3-methylphenol	78
2-Methylnaphthalene	Not Spiked
Hexachlorocyclopentadiene	Not Spiked
2,4,6-Trichlorophenol	Not Spiked
2,4,5-Trichlorophenol	Not Spiked
2-Chloronaphthalene	Not Spiked
2-Nitroaniline	Not Spiked
Dimethylphthalate	Not Spiked
Acenaphthylene	Not Spiked
2,6-Dinitrotoluene	Not Spiked
3-Nitroaniline	Not Spiked
Acenaphthene	77
2,4-Dinitrophenol	Not Spiked
4-Nitrophenol	58
2,4-Dinitrotoluene	69



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803666C-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	p041617	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 4/16/08 07:43 PM
		Date of Extraction: 4/7/08

Compound	%Recovery
Dibenzofuran	Not Spiked
Diethylphthalate	Not Spiked
Fluorene	Not Spiked
4-Chlorophenyl-phenyl Ether	Not Spiked
4-Nitroaniline	Not Spiked
4,6-Dinitro-2-methylphenol	Not Spiked
N-Nitrosodiphenylamine	Not Spiked
4-Bromophenyl-phenyl Ether	Not Spiked
Hexachlorobenzene	Not Spiked
Pentachlorophenol	57
Phenanthrene	Not Spiked
Anthracene	Not Spiked
di-n-Butylphthalate	Not Spiked
Fluoranthene	Not Spiked
Pyrene	75
Butylbenzylphthalate	Not Spiked
3,3'-Dichlorobenzidine	Not Spiked
Chrysene	Not Spiked
Benzo(a)anthracene	Not Spiked
bis(2-Ethylhexyl)phthalate	Not Spiked
Di-n-Octylphthalate	Not Spiked
Benzo(b)fluoranthene	Not Spiked
Benzo(k)fluoranthene	Not Spiked
Benzo(a)pyrene	Not Spiked
Indeno(1,2,3-c,d)pyrene	Not Spiked
Dibenz(a,h)anthracene	Not Spiked
Benzo(g,h,i)perylene	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	71	50-150
Phenol-d5	78	50-150
Nitrobenzene-d5	79	50-150
2,4,6-Tribromophenol	80	50-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803666C-05A

**MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN**

File Name:	p041617	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	4/16/08 07:43 PM
		Date of Extraction:	4/7/08

Surrogates	%Recovery	Method Limits
Fluorene-d10	74	60-120
Pyrene-d10	74	60-120

