Air Toxics LTD.

Laboratory Services Since 1989

Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-4A

INVENTORY SHEET

Work Order #: 0907252A

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	7/24/09
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
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WORK ORDER #: 0907252A

Work Order Summary

CLIENT:	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706	**BILL TO:**	Mr. Doug Herlocker Tetra Tech 3380 Americana Terrace, Suite 201 Boise, ID 83706
PHONE:	208-389-1030	**P.O. #**	103P0333.005
FAX:		**PROJECT #**	103P0333.006 BMI OFFSITE
DATE RECEIVED:	07/14/2009	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	07/23/2009		

FRACTION #	NAME	TEST
01A	OFF04-070909	Modified TO-4A
04A	OFF03-070909	Modified TO-4A
04AA	OFF03-070909 Lab Duplicate	Modified TO-4A
05A	Lab Blank	Modified TO-4A
06A	LCS	Modified TO-4A

CERTIFIED BY: Linda L. Freeman DATE: 07/23/09

Laboratory Director

Certfication 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: 07/01/08, Expiration date: 06/30/09
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-4A
Tetra Tech
Workorder# 0907252A

Two PUF Cartridge samples were received on July 14, 2009. The laboratory performed analysis via Modified EPA Method TO-4A using GC/ECD. The PUF samples were extracted using Pressurized Fluid Extraction (PFE) by EPA Method 3545A. Following the extraction, the solvent is switched to hexane and the extract concentrated. Analysis is carried out on a HP GC/ECD and second column confirmation is used to positively identify pesticide results. Duplicate extraction cannot be performed on PUF media, therefore duplicate results are derived from analyzing the extract twice.

Method modifications taken to run these samples include:

Requirement	*Method TO-4A*	*ATL Modifications*
Extraction Solvent	10 % Diethyl Ether in Hexane	DCM, exchanging to Hexane during the concentration step.
Reagent Blank	Set up extraction system without filter/PUF; reflux with solvent	No Reagent Blank is extracted. Reagent lots are certified as acceptable prior to use.
Initial Calibration Verification (ICV)	Second source standard analyzed after ICAL; recovery 85 - 115 %	Recovery limits are 85-115% for pesticides; 80-120% for PCBs.
PCB Quantitation	Requires a minimum of 5 peaks	Use 4 peaks for quantitation.
Frequency of Continuing Calibration Verification	Every 10 samples.	Every 20 samples.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Sampling volume was supplied by the client. A sample volume of 90 m3 was assumed for all QC samples.

The associated comprehensive data validation package provided at a later date shows the time of analysis in GMT in the raw data files. Due to software limitations the time cannot be adjusted. However, the time on the final PDF and EDD reports are provided in PST.

Historically derived control limits for this compound indicate a trend toward low recovery from the PUF media. In house generated control limits for Endrin Aldehyde were used to evaluate recovery for PUF media.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit.
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 detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
OFF04-070909	0907252A-01A	7/ 9/2009	7/14/2009	7/16/2009	7	7/17/2009	1	Good
OFF03-070909	0907252A-04A	7/ 9/2009	7/14/2009	7/16/2009	7	7/17/2009	1	Good
OFF03-070909 Lab Dupl	0907252A-04AA	7/ 9/2009	7/14/2009	7/16/2009	7	7/17/2009	1	Good
Lab Blank	0907252A-05A	NA	NA	7/16/2009	NA	7/17/2009	1	Good
LCS	0907252A-06A	NA	NA	7/16/2009	NA	7/17/2009	1	Good

Sample Results and Raw Data

Summary of Detected Compounds
MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: OFF04-070909

Lab ID#: 0907252A-01A

No Detections Were Found.

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Client Sample ID: OFF04-070909

Lab ID#: 0907252A-01A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071712**	**Date of Collection: 7/9/09 5:10:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 04:33 PM**
		Date of Extraction: 7/16/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0012	Not Detected	Not Detected
alpha-BHC	0.10	0.0012	Not Detected	Not Detected
beta-BHC	0.10	0.0012	Not Detected	Not Detected
delta-BHC	0.10	0.0012	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0012	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0012	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0012	Not Detected	Not Detected
4,4'-DDD	0.10	0.0012	Not Detected	Not Detected
4,4'-DDE	0.10	0.0012	Not Detected	Not Detected
4,4'-DDT	0.10	0.0012	Not Detected	Not Detected
Dieldrin	0.10	0.0012	Not Detected	Not Detected
Endosulfan I	0.10	0.0012	Not Detected	Not Detected
Endosulfan II	0.10	0.0012	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0012	Not Detected	Not Detected
Endrin	0.10	0.0012	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0012	Not Detected	Not Detected
Endrin Ketone	0.10	0.0012	Not Detected	Not Detected
Heptachlor	0.10	0.0012	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0012	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.012	Not Detected	Not Detected
Toxaphene	1.0	0.012	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.012	Not Detected	Not Detected
Aroclor-1221	1.0	0.012	Not Detected	Not Detected
Aroclor-1232	1.0	0.012	Not Detected	Not Detected
Aroclor-1248	1.0	0.012	Not Detected	Not Detected
Aroclor-1254	1.0	0.012	Not Detected	Not Detected
Aroclor-1260	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 86900

Aroclors are reported from file p071712a.d, analyzed on 07/17/2009 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	87	60-120
Decachlorobiphenyl	76	60-120

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Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071712.d
Lab Smp Id: 0907252A-01A
Inj Date : 17-JUL-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/p0910519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
Compounds	RT	EXP RT	REL RT	RESPONSE		
$ 2 TCMX	6.009	6.008	(0.352)	8579267476	0.52301	0.5230
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 Endosulfan I	Compound Not Detected.					
18 DDE	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

						CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
Compounds		RT	EXP RT	REL RT	RESPONSE		
23	DDT	Compound Not Detected.					
24	Endrin Aldehyde	Compound Not Detected.					
25	Endosulfan Sulfate	Compound Not Detected.					
26	Methoxychlor	Compound Not Detected.					
169	Mirex	Compound Not Detected.					
27	Endrin Ketone	Compound Not Detected.					
$ 28	DCB	15.402	15.398	(0.902)	4716085401	0.45571	0.4557
* 29	Decachlorodiphenyl Ether	17.072	17.069	(1.000)	16938192212	2.00000	

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PCB analysis

Data file : /chem/gcp.i/17Jul2009.b/P071712a.d
Lab Smp Id: 0907252A-01A
Inj Date : 17-JUL-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	6.009	6.024	(0.352)	7048293101	0.55303	0.553
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	15.402	15.413	(0.902)	4363790656	0.50971	0.510(H)
*	39	Decachlorodiphenyl Ether	Compound Not Detected.					

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 22-Jul-2009 17:16

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071712.d
Lab Smp Id: 0907252A-01A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	18677125180	9338562590	37354250361	16938192212	-9.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.07	16.57	17.57	17.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071712a.d
Lab Smp Id: 0907252A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17442469517	8721234758	34884939034	0	-100.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.09	16.59	17.59	0.00	-100.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:16

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907252A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.5230	87.17	60-120
$ 28 DCB	0.6000	0.4557	75.95	60-120

Report Date: 22-Jul-2009 17:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.553	92.17	60-120
$ 38 DCB	0.600	0.510	84.95	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071712.d

Date : 17-JUL-2009 23:33

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0016

Data File: /chem/gcp.i/17Jul2009.b/P071712a.d

Date : 17-JUL-2009 23:33

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0017

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071712b.d
Lab Smp Id: 0907252A-01A
Inj Date : 17-JUL-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	5.832	5.828	(0.371)	3244820115	0.52159	0.5216
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 DDE	Compound Not Detected.					
18 Endosulfan I	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Methoxychlor	Compound Not Detected.					
	168 Mirex	Compound Not Detected.					
	26 Endosulfan Sulfate	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	14.382	14.377	(0.916)	2231357970	0.44913	0.4491
*	29 Decachlorodiphenyl Ether	15.701	15.697	(1.000)	7893440186	2.00000	

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PCB Analysis

Data file : /chem/gcp.i/17Jul2009.b/P071712ab.d
Lab Smp Id: 0907252A-01A
Inj Date : 17-JUL-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	5.832	5.821	(0.371)	3362441965	0.61277	0.613
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	14.382	14.378	(0.916)	2313428322	0.54118	0.541
*	39	Decachlorodiphenyl Ether	15.701	15.697	(1.000)	7882674396	2.00000	

Report Date: 22-Jul-2009 17:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071712b.d
Lab Smp Id: 0907252A-01A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8768828706	4384414353	17537657412	7893440186	-9.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071712ab.d
Lab Smp Id: 0907252A-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8301083065	4150541532	16602166129	7882674396	-5.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907252A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.5216	86.93	60-120
$ 28 DCB	0.6000	0.4491	74.85	60-120

Report Date: 22-Jul-2009 17:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A-01A
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.613	102.13	60-120
$ 38 DCB	0.600	0.541	90.20	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071712b.d

Date : 17-JUL-2009 23:33

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0026

Data File: /chem/gcp.i/17Jul2009.b/P071712ab.d

Date : 17-JUL-2009 23:33

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0027

Summary of Detected Compounds
MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: OFF03-070909

Lab ID#: 0907252A-04A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070909

Lab ID#: 0907252A-04A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071709**	**Date of Collection: 7/9/09 5:20:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 03:12 PM**
		Date of Extraction: 7/16/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0012	Not Detected	Not Detected
alpha-BHC	0.10	0.0012	Not Detected	Not Detected
beta-BHC	0.10	0.0012	Not Detected	Not Detected
delta-BHC	0.10	0.0012	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0012	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0012	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0012	Not Detected	Not Detected
4,4'-DDD	0.10	0.0012	Not Detected	Not Detected
4,4'-DDE	0.10	0.0012	Not Detected	Not Detected
4,4'-DDT	0.10	0.0012	Not Detected	Not Detected
Dieldrin	0.10	0.0012	Not Detected	Not Detected
Endosulfan I	0.10	0.0012	Not Detected	Not Detected
Endosulfan II	0.10	0.0012	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0012	Not Detected	Not Detected
Endrin	0.10	0.0012	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0012	Not Detected	Not Detected
Endrin Ketone	0.10	0.0012	Not Detected	Not Detected
Heptachlor	0.10	0.0012	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0012	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.012	Not Detected	Not Detected
Toxaphene	1.0	0.012	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.012	Not Detected	Not Detected
Aroclor-1221	1.0	0.012	Not Detected	Not Detected
Aroclor-1232	1.0	0.012	Not Detected	Not Detected
Aroclor-1248	1.0	0.012	Not Detected	Not Detected
Aroclor-1254	1.0	0.012	Not Detected	Not Detected
Aroclor-1260	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 83500

Aroclors are reported from file p071709a.d, analyzed on 07/17/2009 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	78	60-120
Decachlorobiphenyl	74	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071709.d
Lab Smp Id: 0907252A-04A
Inj Date : 17-JUL-2009 22:12
Operator : LZ Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/p0910519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug/L)
$ 2 TCMX	6.009	6.008	(0.352)	7921920761	0.46703	0.4670
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 Endosulfan I	Compound Not Detected.					
18 DDE	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 DDT	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug/L)
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Endosulfan Sulfate	Compound Not Detected.					
	26 Methoxychlor	Compound Not Detected.					
	169 Mirex	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	15.401	15.398	(0.902)	4724027977	0.44144	0.4414
*	29 Decachlorodiphenyl Ether	17.071	17.069	(1.000)	17514966823	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/17Jul2009.b/P071709a.d
Lab Smp Id: 0907252A-04A
Inj Date : 17-JUL-2009 22:12
Operator : LZ Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$	2 TCMX	6.009	6.024	(0.352)	7078819017	0.52128	0.521
M	3 pcb1016/1242	Compound Not Detected.					
	4 pcb1016/1242-1	Compound Not Detected.					
	5 pcb1016/1242-2	Compound Not Detected.					
	6 pcb1016/1242-3	Compound Not Detected.					
	7 pcb1016/1242-4	Compound Not Detected.					
M	8 pcb1260	Compound Not Detected.					
	9 pcb1260-1	Compound Not Detected.					
	10 pcb1260-2	Compound Not Detected.					
	11 pcb1260-3	Compound Not Detected.					
	12 pcb1260-4	Compound Not Detected.					
M	13 pcb1221	Compound Not Detected.					
	14 pcb1221-1	Compound Not Detected.					
	15 pcb1221-2	Compound Not Detected.					
	16 pcb1221-3	Compound Not Detected.					
	17 pcb1221-4	Compound Not Detected.					

							CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
		Compounds	RT	EXP RT	REL RT	RESPONSE		
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	15.401	15.413	(0.902)	4557141536	0.49957	0.500
*	39	Decachlorodiphenyl Ether	17.071	17.089	(1.000)	17418192950	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071709.d
Lab Smp Id: 0907252A-04A
Analysis Type:
Quant Type: ISTD
Operator: LZ
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55

Level: HIGH
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	18677125180	9338562590	37354250361	17514966823	-6.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.07	16.57	17.57	17.07	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071709a.d
Lab Smp Id: 0907252A-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: LZ
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17442469517	8721234758	34884939034	17418192950	-0.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.09	16.59	17.59	17.07	-0.10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: LIQUID
Fraction:
Lab Smp Id: 0907252A-04A
Level: HIGH
Operator: LZ
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4670	77.84	60-120
$ 28 DCB	0.6000	0.4414	73.57	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A-04A
Level: LOW
Operator: LZ
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.521	86.88	60-120
$ 38 DCB	0.600	0.500	83.26	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071709.d

Date : 17-JUL-2009 22:12

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

0038

Data File: /chem/gcp.i/17Jul2009.b/P071709a.d

Date : 17-JUL-2009 22:12

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

0039

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071709b.d
Lab Smp Id: 0907252A-04A
Inj Date : 17-JUL-2009 22:12
Operator : LZ Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug/L)
$ 2 TCMX	5.829	5.828	(0.371)	3102014083	0.46736	0.4674
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 DDE	Compound Not Detected.					
18 Endosulfan I	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 DDT	Compound Not Detected.					

						CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug/L)
Compounds		RT	EXP RT	REL RT	RESPONSE		
24	Endrin Aldehyde	Compound Not Detected.					
25	Methoxychlor	Compound Not Detected.					
168	Mirex	Compound Not Detected.					
26	Endosulfan Sulfate	Compound Not Detected.					
27	Endrin Ketone	Compound Not Detected.					
$ 28	DCB	14.378	14.377	(0.916)	2304275255	0.43471	0.4347
* 29	Decachlorodiphenyl Ether	15.697	15.697	(1.000)	8421718976	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/17Jul2009.b/P071709ab.d
Lab Smp Id: 0907252A-04A
Inj Date : 17-JUL-2009 22:12
Operator : LZ Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$	2 TCMX	5.829	5.821	(0.371)	3041062165	0.51836	0.518
M	3 pcb1016/1242	Compound Not Detected.					
	4 pcb1016/1242-1	Compound Not Detected.					
	5 pcb1016/1242-2	Compound Not Detected.					
	6 pcb1016/1242-3	Compound Not Detected.					
	7 pcb1016/1242-4	Compound Not Detected.					
M	8 pcb1260	Compound Not Detected.					
	9 pcb1260-1	Compound Not Detected.					
	10 pcb1260-2	Compound Not Detected.					
	11 pcb1260-3	Compound Not Detected.					
	12 pcb1260-4	Compound Not Detected.					
M	13 pcb1221	Compound Not Detected.					
	14 pcb1221-1	Compound Not Detected.					
	15 pcb1221-2	Compound Not Detected.					
	16 pcb1221-3	Compound Not Detected.					
	17 pcb1221-4	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	14.378	14.378	(0.916)	2300901462	0.50344	0.503
*	39	Decachlorodiphenyl Ether	15.697	15.697	(1.000)	8427797166	2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071709b.d
Lab Smp Id: 0907252A-04A
Analysis Type:
Quant Type: ISTD
Operator: LZ
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55

Level: HIGH
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8768828706	4384414353	17537657412	8421718976	-3.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071709ab.d
Lab Smp Id: 0907252A-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: LZ
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8301083065	4150541532	16602166129	8427797166	1.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: LIQUID
Fraction:
Lab Smp Id: 0907252A-04A
Level: HIGH
Operator: LZ
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4674	77.89	60-120
$ 28 DCB	0.6000	0.4347	72.45	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A-04A
Level: LOW
Operator: LZ
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.518	86.39	60-120
$ 38 DCB	0.600	0.503	83.91	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071709b.d

Page 1

Date : 17-JUL-2009 22:12

Client ID:

Instrument: gcp.i

Sample Info:

Operator: LZ

Column phase:

Column diameter: 2.00

0048

Data File: /chem/gcp.i/17Jul2009.b/P071709ab.d

Date : 17-JUL-2009 22:12

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: LZ

Column diameter: 2.00

0049

Summary of Detected Compounds
MODIFIED EPA METHOD TO-4A GC/ECD

Client Sample ID: OFF03-070909 Lab Duplicate

Lab ID#: 0907252A-04AA

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: OFF03-070909 Lab Duplicate

Lab ID#: 0907252A-04AA

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071713**	**Date of Collection: 7/9/09 5:20:00 PM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 04:59 PM**
		Date of Extraction: 7/16/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0012	Not Detected	Not Detected
alpha-BHC	0.10	0.0012	Not Detected	Not Detected
beta-BHC	0.10	0.0012	Not Detected	Not Detected
delta-BHC	0.10	0.0012	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0012	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0012	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0012	Not Detected	Not Detected
4,4'-DDD	0.10	0.0012	Not Detected	Not Detected
4,4'-DDE	0.10	0.0012	Not Detected	Not Detected
4,4'-DDT	0.10	0.0012	Not Detected	Not Detected
Dieldrin	0.10	0.0012	Not Detected	Not Detected
Endosulfan I	0.10	0.0012	Not Detected	Not Detected
Endosulfan II	0.10	0.0012	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0012	Not Detected	Not Detected
Endrin	0.10	0.0012	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0012	Not Detected	Not Detected
Endrin Ketone	0.10	0.0012	Not Detected	Not Detected
Heptachlor	0.10	0.0012	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0012	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.012	Not Detected	Not Detected
Toxaphene	1.0	0.012	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.012	Not Detected	Not Detected
Aroclor-1221	1.0	0.012	Not Detected	Not Detected
Aroclor-1232	1.0	0.012	Not Detected	Not Detected
Aroclor-1248	1.0	0.012	Not Detected	Not Detected
Aroclor-1254	1.0	0.012	Not Detected	Not Detected
Aroclor-1260	1.0	0.012	Not Detected	Not Detected

Air Sample Volume(L): 83500

Aroclors are reported from file p071713a.d, analyzed on 07/17/2009 with a dilution factor of 1.00.

Container Type: PUF Cartridge

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	77	60-120
Decachlorobiphenyl	74	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071713.d
Lab Smp Id: 0907252A-04AA
Inj Date : 17-JUL-2009 23:59
Operator : LA Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/p0910519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	6.010	6.008	(0.352)	8022627366	0.46400	0.4640
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 Endosulfan I	Compound Not Detected.					
18 DDE	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 DDT	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Endosulfan Sulfate	Compound Not Detected.					
	26 Methoxychlor	Compound Not Detected.					
	169 Mirex	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	15.403	15.398	(0.902)	4822921210	0.44214	0.4421
*	29 Decachlorodiphenyl Ether	17.073	17.069	(1.000)	17853487029	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/17Jul2009.b/P071713a.d
Lab Smp Id: 0907252A-04AA
Inj Date : 17-JUL-2009 23:59
Operator : LA Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$	2 TCMX	6.010	6.024	(0.352)	7134800614	0.51445	0.514
M	3 pcb1016/1242	Compound Not Detected.					
	4 pcb1016/1242-1	Compound Not Detected.					
	5 pcb1016/1242-2	Compound Not Detected.					
	6 pcb1016/1242-3	Compound Not Detected.					
	7 pcb1016/1242-4	Compound Not Detected.					
M	8 pcb1260	Compound Not Detected.					
	9 pcb1260-1	Compound Not Detected.					
	10 pcb1260-2	Compound Not Detected.					
	11 pcb1260-3	Compound Not Detected.					
	12 pcb1260-4	Compound Not Detected.					
M	13 pcb1221	Compound Not Detected.					
	14 pcb1221-1	Compound Not Detected.					
	15 pcb1221-2	Compound Not Detected.					
	16 pcb1221-3	Compound Not Detected.					
	17 pcb1221-4	Compound Not Detected.					

						CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
Compounds	RT	EXP RT	REL RT	RESPONSE			
M 18 pcb1232	Compound Not Detected.						
19 pcb1232-1	Compound Not Detected.						
20 pcb1232-2	Compound Not Detected.						
21 pcb1232-3	Compound Not Detected.						
22 pcb1232-4	Compound Not Detected.						
M 28 pcb1248	Compound Not Detected.						
29 pcb1248-1	Compound Not Detected.						
30 pcb1248-2	Compound Not Detected.						
31 pcb1248-3	Compound Not Detected.						
32 pcb1248-4	Compound Not Detected.						
M 33 pcb1254	Compound Not Detected.						
34 pcb1254-1	Compound Not Detected.						
35 pcb1254-2	Compound Not Detected.						
36 pcb1254-3	Compound Not Detected.						
37 pcb1254-4	Compound Not Detected.						
$ 38 DCB	15.403	15.413	(0.902)	4628225186		0.49678	0.497
* 39 Decachlorodiphenyl Ether	17.073	17.089	(1.000)	17789063688		2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071713.d
Lab Smp Id: 0907252A-04AA
Analysis Type:
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	18677125180	9338562590	37354250361	17853487029	-4.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.07	16.57	17.57	17.07	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071713a.d
Lab Smp Id: 0907252A-04AA
Analysis Type: VOA
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17442469517	8721234758	34884939034	17789063688	1.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.09	16.59	17.59	17.07	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907252A-04AA
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4640	77.33	60-120
$ 28 DCB	0.6000	0.4421	73.69	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A-04AA
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.514	85.74	60-120
$ 38 DCB	0.600	0.497	82.80	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071713.d

Date : 17-JUL-2009 23:59

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

0900

Data File: /chem/gcp.i/17Jul2009.b/P071713a.d

Date : 17-JUL-2009 23:59

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071713b.d
Lab Smp Id: 0907252A-04AA
Inj Date : 17-JUL-2009 23:59
Operator : LA Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	5.833	5.828	(0.371)	3090322238	0.45649	0.4565
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 DDE	Compound Not Detected.					
18 Endosulfan I	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					
23 DDT	Compound Not Detected.					

						CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
	Compounds	RT	EXP RT	REL RT	RESPONSE		
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Methoxychlor	Compound Not Detected.					
	168 Mirex	Compound Not Detected.					
	26 Endosulfan Sulfate	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	14.383	14.377	(0.916)	2330240666	0.43101	0.4310
*	29 Decachlorodiphenyl Ether	15.702	15.697	(1.000)	8589667244	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/17Jul2009.b/P071713ab.d
Lab Smp Id: 0907252A-04AA
Inj Date : 17-JUL-2009 23:59
Operator : LA Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$	2 TCMX	5.833	5.821	(0.371)	3122189450	0.52214	0.522
M	3 pcb1016/1242	Compound Not Detected.					
	4 pcb1016/1242-1	Compound Not Detected.					
	5 pcb1016/1242-2	Compound Not Detected.					
	6 pcb1016/1242-3	Compound Not Detected.					
	7 pcb1016/1242-4	Compound Not Detected.					
M	8 pcb1260	Compound Not Detected.					
	9 pcb1260-1	Compound Not Detected.					
	10 pcb1260-2	Compound Not Detected.					
	11 pcb1260-3	Compound Not Detected.					
	12 pcb1260-4	Compound Not Detected.					
M	13 pcb1221	Compound Not Detected.					
	14 pcb1221-1	Compound Not Detected.					
	15 pcb1221-2	Compound Not Detected.					
	16 pcb1221-3	Compound Not Detected.					
	17 pcb1221-4	Compound Not Detected.					

						CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
Compounds	RT	EXP RT	REL RT	RESPONSE			
M 18 pcb1232	Compound Not Detected.						
19 pcb1232-1	Compound Not Detected.						
20 pcb1232-2	Compound Not Detected.						
21 pcb1232-3	Compound Not Detected.						
22 pcb1232-4	Compound Not Detected.						
M 28 pcb1248	Compound Not Detected.						
29 pcb1248-1	Compound Not Detected.						
30 pcb1248-2	Compound Not Detected.						
31 pcb1248-3	Compound Not Detected.						
32 pcb1248-4	Compound Not Detected.						
M 33 pcb1254	Compound Not Detected.						
34 pcb1254-1	Compound Not Detected.						
35 pcb1254-2	Compound Not Detected.						
36 pcb1254-3	Compound Not Detected.						
37 pcb1254-4	Compound Not Detected.						
$ 38 DCB	14.383	14.378	(0.916)	2328791467		0.49993	0.500
* 39 Decachlorodiphenyl Ether	15.702	15.697	(1.000)	8589871692		2.00000	

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071713b.d
Lab Smp Id: 0907252A-04AA
Analysis Type:
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8768828706	4384414353	17537657412	8589667244	-2.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071713ab.d
Lab Smp Id: 0907252A-04AA
Analysis Type: VOA
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8301083065	4150541532	16602166129	8589871692	3.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907252A-04AA
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4565	76.08	60-120
$ 28 DCB	0.6000	0.4310	71.84	60-120

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A-04AA
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.522	87.02	60-120
$ 38 DCB	0.600	0.500	83.32	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071713b.d

Date : 17-JUL-2009 23:59

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

0070

Data File: /chem/gcp.i/17Jul2009.b/P071713ab.d

Date : 17-JUL-2009 23:59

Client ID:

Sample Info:

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907252A-05A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071708**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 02:46 PM**
		Date of Extraction: 7/16/09

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Aldrin	0.10	0.0011	Not Detected	Not Detected
alpha-BHC	0.10	0.0011	Not Detected	Not Detected
beta-BHC	0.10	0.0011	Not Detected	Not Detected
delta-BHC	0.10	0.0011	Not Detected	Not Detected
gamma-BHC (Lindane)	0.10	0.0011	Not Detected	Not Detected
alpha-Chlordane	0.10	0.0011	Not Detected	Not Detected
gamma-Chlordane	0.10	0.0011	Not Detected	Not Detected
4,4'-DDD	0.10	0.0011	Not Detected	Not Detected
4,4'-DDE	0.10	0.0011	Not Detected	Not Detected
4,4'-DDT	0.10	0.0011	Not Detected	Not Detected
Dieldrin	0.10	0.0011	Not Detected	Not Detected
Endosulfan I	0.10	0.0011	Not Detected	Not Detected
Endosulfan II	0.10	0.0011	Not Detected	Not Detected
Endosulfan Sulfate	0.10	0.0011	Not Detected	Not Detected
Endrin	0.10	0.0011	Not Detected	Not Detected
Endrin Aldehyde	0.10	0.0011	Not Detected	Not Detected
Endrin Ketone	0.10	0.0011	Not Detected	Not Detected
Heptachlor	0.10	0.0011	Not Detected	Not Detected
Heptachlor Epoxide	0.10	0.0011	Not Detected	Not Detected
4,4'-Methoxychlor	1.0	0.011	Not Detected	Not Detected
Toxaphene	1.0	0.011	Not Detected	Not Detected
Aroclor 1016/1242	1.0	0.011	Not Detected	Not Detected
Aroclor-1221	1.0	0.011	Not Detected	Not Detected
Aroclor-1232	1.0	0.011	Not Detected	Not Detected
Aroclor-1248	1.0	0.011	Not Detected	Not Detected
Aroclor-1254	1.0	0.011	Not Detected	Not Detected
Aroclor-1260	1.0	0.011	Not Detected	Not Detected

Air Sample Volume(L): 90000

Aroclors are reported from file p071708a.d, analyzed on 07/17/2009 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	78	60-120
Decachlorobiphenyl	70	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071708.d
Lab Smp Id: 0907252A/253A Client Smp ID: Lab Blank
Inj Date : 17-JUL-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/p0910519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug/L)
$ 2 TCMX	6.024	6.008	(0.352)	8376964754	0.46700	0.4670
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 Endosulfan I	Compound Not Detected.					
18 DDE	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug/L)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Endosulfan Sulfate	Compound Not Detected.					
	26 Methoxychlor	Compound Not Detected.					
	169 Mirex	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	15.417	15.398	(0.902)	4774138979	0.42186	0.4219
*	29 Decachlorodiphenyl Ether	17.091	17.069	(1.000)	18522284412	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/17Jul2009.b/P071708a.d
Lab Smp Id: 0907252A/253A Client Smp ID: Lab Blank
Inj Date : 17-JUL-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	6.024	6.024	(0.352)	7974542052	0.55881	0.559
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17 pcb1221-4	Compound Not Detected.					
M	18 pcb1232	Compound Not Detected.					
	19 pcb1232-1	Compound Not Detected.					
	20 pcb1232-2	Compound Not Detected.					
	21 pcb1232-3	Compound Not Detected.					
	22 pcb1232-4	Compound Not Detected.					
M	28 pcb1248	Compound Not Detected.					
	29 pcb1248-1	Compound Not Detected.					
	30 pcb1248-2	Compound Not Detected.					
	31 pcb1248-3	Compound Not Detected.					
	32 pcb1248-4	Compound Not Detected.					
M	33 pcb1254	Compound Not Detected.					
	34 pcb1254-1	Compound Not Detected.					
	35 pcb1254-2	Compound Not Detected.					
	36 pcb1254-3	Compound Not Detected.					
	37 pcb1254-4	Compound Not Detected.					
$	38 DCB	15.417	15.413	(0.902)	4588352263	0.47864	0.479(H)
*	39 Decachlorodiphenyl Ether	17.091	17.089	(1.000)	18304380509	2.00000	

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 20-Jul-2009 09:06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071708.d
Lab Smp Id: 0907252A/253A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: Lab Blank
Level: HIGH
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	18677125180	9338562590	37354250361	18522284412	-0.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.07	16.57	17.57	17.09	0.13

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-Jul-2009 09:07

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071708a.d
Lab Smp Id: 0907252A/253A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17442469517	8721234758	34884939034	18304380509	4.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.09	16.59	17.59	17.09	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-Jul-2009 09:06

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: LIQUID
Fraction:
Lab Smp Id: 0907252A/253A
Client Smp ID: Lab Blank
Level: HIGH
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4670	77.83	60-120
$ 28 DCB	0.6000	0.4219	70.31	60-120

Report Date: 20-Jul-2009 09:07

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A/253A
Client Smp ID: Lab Blank
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.559	93.13	60-120
$ 38 DCB	0.600	0.479	79.77	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071708.d

Date : 17-JUL-2009 21:46

Client ID: Lab Blank

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0082

0083

Data File: /chem/gcp.i/17Jul2009.b/P071708a.d
Date : 17-JUL-2009 21:46
Client ID: Lab Blank
Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071708b.d
Lab Smp Id: 0907252A/253A Client Smp ID: Lab Blank
Inj Date : 17-JUL-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug/L)
$ 2 TCMX	5.820	5.828	(0.371)	3118443626	0.44858	0.4486
M 3 toxaphene	Compound Not Detected.					
4 toxaphene-1	Compound Not Detected.					
5 toxaphene-2	Compound Not Detected.					
6 toxaphene-3	Compound Not Detected.					
7 toxaphene-4	Compound Not Detected.					
8 a-BHC	Compound Not Detected.					
9 g-BHC	Compound Not Detected.					
10 b-BHC	Compound Not Detected.					
11 d-BHC	Compound Not Detected.					
12 Heptachlor	Compound Not Detected.					
13 Aldrin	Compound Not Detected.					
14 Heptachlor Epoxide	Compound Not Detected.					
15 g-Chlordane	Compound Not Detected.					
16 a-Chlordane	Compound Not Detected.					
17 DDE	Compound Not Detected.					
18 Endosulfan I	Compound Not Detected.					
19 Dieldrin	Compound Not Detected.					
20 Endrin	Compound Not Detected.					
21 DDD	Compound Not Detected.					
22 Endosulfan II	Compound Not Detected.					

	Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug/L)
	23 DDT	Compound Not Detected.					
	24 Endrin Aldehyde	Compound Not Detected.					
	25 Methoxychlor	Compound Not Detected.					
	168 Mirex	Compound Not Detected.					
	26 Endosulfan Sulfate	Compound Not Detected.					
	27 Endrin Ketone	Compound Not Detected.					
$	28 DCB	14.379	14.377	(0.916)	2297432325	0.41382	0.4138
*	29 Decachlorodiphenyl Ether	15.698	15.697	(1.000)	8820654352	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/17Jul2009.b/P071708ab.d
Lab Smp Id: 0907252A/253A Client Smp ID: Lab Blank
Inj Date : 17-JUL-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all_42.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (uG)
$ 2 TCMX	5.820	5.821	(0.371)	3119854554	0.50811	0.508
M 3 pcb1016/1242	Compound Not Detected.					
4 pcb1016/1242-1	Compound Not Detected.					
5 pcb1016/1242-2	Compound Not Detected.					
6 pcb1016/1242-3	Compound Not Detected.					
7 pcb1016/1242-4	Compound Not Detected.					
M 8 pcb1260	Compound Not Detected.					
9 pcb1260-1	Compound Not Detected.					
10 pcb1260-2	Compound Not Detected.					
11 pcb1260-3	Compound Not Detected.					
12 pcb1260-4	Compound Not Detected.					
M 13 pcb1221	Compound Not Detected.					
14 pcb1221-1	Compound Not Detected.					
15 pcb1221-2	Compound Not Detected.					
16 pcb1221-3	Compound Not Detected.					

		Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
	17	pcb1221-4	Compound Not Detected.					
M	18	pcb1232	Compound Not Detected.					
	19	pcb1232-1	Compound Not Detected.					
	20	pcb1232-2	Compound Not Detected.					
	21	pcb1232-3	Compound Not Detected.					
	22	pcb1232-4	Compound Not Detected.					
M	28	pcb1248	Compound Not Detected.					
	29	pcb1248-1	Compound Not Detected.					
	30	pcb1248-2	Compound Not Detected.					
	31	pcb1248-3	Compound Not Detected.					
	32	pcb1248-4	Compound Not Detected.					
M	33	pcb1254	Compound Not Detected.					
	34	pcb1254-1	Compound Not Detected.					
	35	pcb1254-2	Compound Not Detected.					
	36	pcb1254-3	Compound Not Detected.					
	37	pcb1254-4	Compound Not Detected.					
$	38	DCB	14.379	14.378	(0.916)	2342401963	0.48970	0.490
*	39	Decachlorodiphenyl Ether	15.698	15.697	(1.000)	8820558060	2.00000	

Report Date: 20-Jul-2009 09:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071708b.d
Lab Smp Id: 0907252A/253A
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: Lab Blank
Level: HIGH
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8768828706	4384414353	17537657412	8820654352	0.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-Jul-2009 09:08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071708ab.d
Lab Smp Id: 0907252A/253A
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8301083065	4150541532	16602166129	8820558060	6.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-Jul-2009 09:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: LIQUID
Fraction:
Lab Smp Id: 0907252A/253A
Client Smp ID: Lab Blank
Level: HIGH
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.4486	74.76	60-120
$ 28 DCB	0.6000	0.4138	68.97	60-120

Report Date: 20-Jul-2009 09:08

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A/253A
Client Smp ID: Lab Blank
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: SAMPLE
SpikeList File:
Quant Type: ISTD
Sublist File: all_42.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.508	84.68	60-120
$ 38 DCB	0.600	0.490	81.62	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071708b.d

Page 1

Date : 17-JUL-2009 21:46

Client ID: Lab Blank

Instrument: gcp.i

Sample Info:

Operator: rn

Column phase:

Column diameter: 2.00

0092

0093

Data File: /chem/gcp.i/17Jul2009.b/P071708ab.d
Date : 17-JUL-2009 21:46
Client ID: Lab Blank
Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-4A GC/ECD

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0907252A

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		Decachlorobiphenyl	#	2,4,5,6-Tetrachloro-m-xylene	#		#		#	TOTAL OUT
01	OFF04-070909	76		87						0
02	OFF03-070909	74		78						0
03	OFF03-070909 Lab Duplicate	74		77						0
04	Lab Blank	70		78						0
05	LCS	70		77						0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

Decachlorobiphenyl 60 - 120
2,4,5,6-Tetrachloro-m-xylene 60 - 120

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: P071713.d & P071709.d

Lab Sample ID: 04A & 04AA

Dilution: 1.00 & 1.00

Client Sample ID: &

Date Analyzed: 7/17/09 & 7/17/09

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
72-54-8	4,4'-DDD	ND	U	ND	U	0	
72-55-9	4,4'-DDE	ND	U	ND	U	0	
50-29-3	4,4'-DDT	ND	U	ND	U	0	
72-43-5	4,4'-Methoxychlor	ND	U	ND	U	0	
309-00-2	Aldrin	ND	U	ND	U	0	
319-84-6	alpha-BHC	ND	U	ND	U	0	
5103-71-9	alpha-Chlordane	ND	U	ND	U	0	
9999-9999-098	Aroclor 1016/1242	ND		ND		0	
11104-28-2	Aroclor-1221	ND		ND		0	
11141-16-5	Aroclor-1232	ND		ND		0	
12672-29-6	Aroclor-1248	ND		ND		0	
11097-69-1	Aroclor-1254	ND		ND		0	
11096-82-5	Aroclor-1260	ND		ND		0	
319-85-7	beta-BHC	ND	U	ND	U	0	
319-86-8	delta-BHC	ND	U	ND	U	0	
60-57-1	Dieldrin	ND	U	ND	U	0	
959-98-8	Endosulfan I	ND	U	ND	U	0	
33213-65-9	Endosulfan II	ND	U	ND	U	0	
1031-07-8	Endosulfan Sulfate	ND	U	ND	U	0	
72-20-8	Endrin	ND	U	ND	U	0	
7421-93-4	Endrin Aldehyde	ND	U	ND	U	0	
53494-70-5	Endrin Ketone	ND	U	ND	U	0	
58-89-9	gamma-BHC (Lindane)	ND	U	ND	U	0	
5103-74-2	gamma-Chlordane	ND	U	ND	U	0	
76-44-8	Heptachlor	ND	U	ND	U	0	
1024-57-3	Heptachlor Epoxide	ND	U	ND	U	0	
8001-35-2	Toxaphene	ND	U	ND	U	0	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905.d
Level 2: /chem/gcp.i/19May2009.b/P051906.d
Level 3: /chem/gcp.i/19May2009.b/P051907.d
Level 4: /chem/gcp.i/19May2009.b/P051912.d
Level 5: /chem/gcp.i/19May2009.b/P051909.d
Level 6: /chem/gcp.i/19May2009.b/P051910.d
Level 7: /chem/gcp.i/19May2009.b/P051911.d

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
M 3 toxaphene	+++++	+++++	+++++	0.18671	+++++	+++++		
	+++++						0.18671	0.000
4 toxaphene-1	+++++	+++++	+++++	0.04782	+++++	+++++		
	+++++						0.04782	0.000
5 toxaphene-2	+++++	+++++	+++++	0.07004	+++++	+++++		
	+++++						0.07004	0.000
6 toxaphene-3	+++++	+++++	+++++	0.03904	+++++	+++++		
	+++++						0.03904	0.000
7 toxaphene-4	+++++	+++++	+++++	0.02980	+++++	+++++		
	+++++						0.02980	0.000
8 a-BHC	3.06029	2.88789	2.91994	2.72188	2.68274	2.66110		
	2.57452						2.78691	6.192
9 g-BHC	2.88994	2.70131	2.73475	2.51098	2.49789	2.47513		
	2.34450						2.59350	7.238

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
10 b-BHC	1.22417	1.12320	1.12343	1.02994	1.01921	1.00999		
	0.95026						1.06860	8.675
11 d-BHC	2.60102	2.42295	2.53904	2.33826	2.34972	2.34578		
	2.25851						2.40790	5.062
12 Heptachlor	2.84736	2.68096	2.53886	2.31490	2.20378	2.13543		
	1.81222						2.36193	14.963
13 Aldrin	2.69177	2.50408	2.46999	2.23588	2.18770	2.13954		
	1.87800						2.30099	11.830
14 Heptachlor Epoxide	2.37477	2.18690	2.13545	1.90885	1.85999	1.81902		
	1.58666						1.98166	13.397
15 g-Chlordane	2.40318	2.23316	2.22169	2.01977	1.98879	1.96759		
	1.78617						2.08862	9.936
16 a-Chlordane	2.28705	2.11693	2.09697	1.90599	1.87542	1.85263		
	1.67113						1.97230	10.439
17 Endosulfan I	2.13442	1.96020	1.91725	1.71655	1.67084	1.63113		
	1.41755						1.77828	13.511
18 DDE	2.17396	2.00397	2.02379	1.84382	1.81318	1.79305		
	1.58704						1.89126	10.141
19 Dieldrin	2.25885	2.10392	2.08574	1.88524	1.84408	1.81147		
	1.59252						1.94026	11.510

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
20 Endrin	1.98606	1.85372	1.84220	1.67416	1.63710	1.61853		
	1.42349						1.71932	10.902
21 DDD	1.65382	1.53980	1.58767	1.46433	1.45601	1.45648		
	1.34287						1.50014	6.816
22 Endosulfan II	1.85327	1.75504	1.73189	1.53068	1.49818	1.45227		
	1.31147						1.59040	12.181
23 DDT	1.68007	1.64889	1.68128	1.56483	1.54873	1.54702		
	1.41846						1.58418	5.949
24 Endrin Aldehyde	1.40233	1.33775	1.33579	1.22654	1.20651	1.19265		
	1.07413						1.25367	8.908
25 Endosulfan Sulfate	1.49491	1.46895	1.49292	1.38126	1.36477	1.36338		
	1.25239						1.40265	6.314
26 Methoxychlor	0.69495	0.63616	0.59870	0.54127	0.52941	0.52639		
	+++++						0.58781	11.609
169 Mirex	1.12526	1.06127	1.05700	0.98397	0.97476	0.98133		
	0.92776						1.01591	6.650
27 Endrin Ketone	1.74472	1.70032	1.68046	1.54698	1.51808	1.50014		
	1.35275						1.57764	8.760
$ 2 TCMX	2.27365	2.06803	1.99655	1.80931	1.76021	1.71359		
	+++++						1.93689	11.110

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
$ 28 DCB	1.37928	1.29286	1.28099	1.18244	1.16526	1.16758		
	1.08536						1.22197	8.160

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 9.57619190                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/gcp.i/19May2009.b/p0910519.m
Start Cal Date: 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
19-MAY-2009 17:30	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051905.d
Cal Level: 2 , Cal Amount: 0.20000		
19-MAY-2009 17:57	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051906.d
Cal Level: 3 , Cal Amount: 0.40000		
19-MAY-2009 18:23	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907.d
Cal Level: 4 , Cal Amount: 0.60000		
19-MAY-2009 20:37	tox	/chem/gcp.i/19May2009.b/P051912.d
19-MAY-2009 18:50	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051908.d
Cal Level: 5 , Cal Amount: 0.80000		
19-MAY-2009 19:17	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051909.d
Cal Level: 6 , Cal Amount: 1.00000		
19-MAY-2009 19:43	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051910.d
Cal Level: 7 , Cal Amount: 2.50000		
19-MAY-2009 20:10	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051911.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

```
+-------------------+-----------------+-----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                                |
+===================================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907a.d       |
+-------------------+-----------------+-----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                                |
+===================================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907.d        |
+-------------------+-----------------+-----------------------------------------+
```

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

upper range for Methoxychlor is 10ppm and TCMX is 2.0ppm

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905.d
Level 2: /chem/gcp.i/19May2009.b/P051906.d
Level 3: /chem/gcp.i/19May2009.b/P051907.d
Level 4: /chem/gcp.i/19May2009.b/P051912.d
Level 5: /chem/gcp.i/19May2009.b/P051909.d
Level 6: /chem/gcp.i/19May2009.b/P051910.d
Level 7: /chem/gcp.i/19May2009.b/P051911.d

2nd Source: P051914
Mirex 2nd Source: P051913
TOX: P051912

Based on 1ul injection in Hexane

5/20/09

unit in ppm

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	2.500 Level 7	RRF	% RSD
M 3 toxaphene *	+++++	+++++	+++++	0.18671	+++++	+++++	+++++	0.18671	0.000
4 toxaphene-1	+++++	+++++	+++++	0.04782	+++++	+++++	+++++	0.04782	0.000
5 toxaphene-2	+++++	+++++	+++++	0.07004	+++++	+++++	+++++	0.07004	0.000
6 toxaphene-3	+++++	+++++	+++++	0.03904	+++++	+++++	+++++	0.03904	0.000
7 toxaphene-4	+++++	+++++	+++++	0.02980	+++++	+++++	+++++	0.02980	0.000
8 a-BHC	3.06029	2.88789	2.91994	2.72188	2.68274	2.66110	2.57452	2.78691	6.192
9 g-BHC	2.88994	2.70131	2.73475	2.51098	2.49789	2.47513	2.34450	2.59350	7.238

RM 5/20/09

*Calibration level: 6.0ppm

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

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Method: Mod. TO-4A/TO-10A

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 2.31%
		Back:			Back: 2.25%
1685-320-50	Decafluorodiphenyl Ether	Front: 199266643419		DDT	Front: 3.12%
		Back: 63491128896			Back: 2.51%
NA	NA	Front: NA		must be ≤15%	
		Back:			

Injection Volume: 1.0 µL

	USE	File #	Sample/ Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed (GMT)	Time Analyzed	Review Init.	Comments
1	✓	P051901	Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
2	✓	02	1685-143-0.8 Wall	2				1548		
3	X	03	1685-135-0.6 Pest	3				1615		CCV ↑
4	✓	04	Hexane Blank	4				1642		
5	✓	05	1685-135-0.1	5		RTD/LA		1730		Level 1
6	✓	06	-0.2	6				1757		Level 2
7	✓	07	-0.4	7				1823		Level 3, CCV
8	✓	08	-0.6	8				1850		Level 4
9	✓	09	-0.8	9				1917		Level 5
10	✓	10	-1.0	10				1943		Level 6
11	✓	11	-5.0, 50:100	11				2010		Level 7, 2.5 ppm
12	✓	12	1685-127-6.0, TOX	12				2037		TOX
13	✓	13	1685-109A-1.0	13				2104		LCS marex
14	✓	14	1685-136-0.4	14				2130		LCS
15	✓	15	Hexane Blank	15				2157		
16	✓	16	090514 2A-Blank	16				2328		
17	✓	17	-LCS	17				2355		LCS
18	✓	18	-01A	18			5/20/09	0021		
19	✓	19	-01AA	18				0048		
20	✓	20	-04A	19				0115		
21	✓	21	1685-135-0.4	20				0142		
22	✓	22	Hexane Blank	21				0208		
23	✓	23	090526 01A-Blank	22				0235		
24	✓	24	-LCS	23				0302		LCS

Calculation Check: File ID: P051914 Compound: g-BHC Initials: [illegible]

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (982979 0842) / (212 6843830 2 ~~(2.25192)~~ 2.59350) × (2.100) = **0.35742** nm 5/20/09

µG/Sample = nG On Column X 1000 µL Final Vol. / 1.0 µL Inj. Vol. X 1000 nG/µG × D.F. = (0.35742) × (1000) / (1000) × (1.00) = **0.35742**

Reported Result = 0.3574

[illegible] Signed

5/20/09 Date

Revised: 02/27/06

Report Date: 20-May-2009 08:21 RBM 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Primary Column, RTX-CLPesticides II
Method : /chem/gcp.i/19May2009.b/BREAK.m
Meth Date : 29-Apr-2009 09:16 lantonic Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				9907148577		
M 2 Total Endrin				11771148865		
3 p,p'-DDE	10.867	11.033	-0.166	52545510		
4 Endrin	11.596	11.674	-0.078	11499305683		
5 p,p'-DDD	11.758	11.836	-0.078	256731395		
6 p,p'-DDT	12.207	12.236	-0.029	9597871672		
7 Endrin Aldehyde	12.403	12.433	-0.030	86207858		
8 Endrin Ketone	13.532	13.699	-0.167	185635323		

$$\text{Endrin Breakdown} = \frac{86207858 + 185635323}{11771148865} \times 100 = 2.31\%$$

$$\text{DDT Breakdown} = \frac{52545510 + 256731395}{9907148577} \times 100 = 3.12\%$$

Report Date: 20-May-2009 08:21

nm 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902b.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Confirmation Column, RTX-CLPesticides
Method : /chem/gcp.i/19May2009.b/BREAK.m/BREAKB.m
Meth Date : 30-Jul-2003 09:29 lzhang Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				3092786588		
M 2 Total Endrin				3417949801		
3 p,p'-DDE	10.240	10.260	-0.020	13604321		
4 Endrin	11.096	11.113	-0.017	3341046962		
5 p,p'-DDD	11.184	11.204	-0.020	64059536		
6 p,p'-DDT	11.593	11.768	-0.175	3015122731		
7 Endrin Aldehyde	12.047	12.227	-0.180	12336504		
8 Endrin Ketone	13.048	13.227	-0.179	64566333		

Endrin Breakdown = $\frac{12336504 + 64566333}{3417949801} \times 100 = 2.25\%$

DDT Breakdown = $\frac{13604321 + 64059536}{3092786588} \times 100 = 2.51\%$

Data File: /chem/gcp.i/19May2009.b/P051914.d
Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-136-0.4-4.0
Level: LOW
Data Type: GC DATA
SpikeList File: 1050-159.spk
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6504	81.31*	85-115
8 a-BHC	0.4000	0.3761	94.03	85-115
10 b-BHC	0.4000	0.3680	92.00	85-115
9 g-BHC	0.4000	0.3574	89.36	85-115
11 d-BHC	0.4000	0.3602	90.05	85-115
12 Heptachlor	0.4000	0.3821	95.52	85-115
13 Aldrin	0.4000	0.3751	93.78	85-115
14 Heptachlor Epoxide	0.4000	0.3761	94.02	85-115
17 Endosulfan I	0.4000	0.3770	94.24	85-115
18 DDE	0.8000	0.7122	89.03	85-115
19 Dieldrin	0.8000	0.7218	90.23	85-115
20 Endrin	0.8000	0.6961	87.01	85-115
22 Endosulfan II	0.8000	0.7112	88.90	85-115
21 DDD	0.8000	0.7230	90.38	85-115
24 Endrin Aldehyde	0.8000	0.6449	80.61*	85-115
25 Endosulfan Sulfate	0.8000	0.7097	88.72	85-115
23 DDT	0.8000	0.7277	90.97	85-115
27 Endrin Ketone	0.8000	0.6887	86.09	85-115
16 a-Chlordane	0.4000	0.3700	92.50	85-115
15 g-Chlordane	0.4000	0.3633	90.82	85-115
26 Methoxychlor	4.000	3.662	91.55	85-115
$ 28 DCB	1.600	1.216	76.01*	85-115

avg = 89.42 rm 5/20/09

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6504	81.31	60-120
$ 28 DCB	1.100	1.216	76.01	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051914.d
Lab Smp Id: 1685-136-0.4-4.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-136-0.4-4.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	6.032	6.030	(0.352)	13359563521	0.65044	0.6504(R)
8 a-BHC	7.023	7.021	(0.410)	11115054334	0.37611	0.3761
9 g-BHC	7.636	7.633	(0.446)	9829790842	0.35742	0.3574
10 b-BHC	7.782	7.779	(0.455)	4169846707	0.36798	0.3680
11 d-BHC	8.318	8.313	(0.486)	9196957842	0.36019	0.3602
12 Heptachlor	8.425	8.423	(0.492)	9570029662	0.38209	0.3821
13 Aldrin	9.030	9.028	(0.528)	9153183919	0.37513	0.3751
14 Heptachlor Epoxide	10.041	10.039	(0.587)	7903267660	0.37610	0.3761
15 g-Chlordane	10.354	10.352	(0.605)	8046254303	0.36329	0.3633
16 a-Chlordane	10.593	10.591	(0.619)	7738645707	0.37001	0.3700
17 Endosulfan I	10.692	10.690	(0.625)	7108548234	0.37697	0.3770
18 DDE	10.863	10.861	(0.635)	14284364405	0.71225	0.7122
19 Dieldrin	11.126	11.124	(0.650)	14852018351	0.72185	0.7218
20 Endrin	11.595	11.594	(0.677)	12690892064	0.69607	0.6961
21 DDD	11.753	11.752	(0.687)	11502206023	0.72306	0.7230
22 Endosulfan II	11.912	11.910	(0.696)	11994767584	0.71122	0.7112
23 DDT	12.206	12.205	(0.713)	12225304159	0.72774	0.7277
24 Endrin Aldehyde	12.401	12.399	(0.724)	8573243685	0.64489	0.6449(R)
25 Endosulfan Sulfate	12.792	12.790	(0.747)	10556613234	0.70973	0.7097
26 Methoxychlor	13.158	13.157	(0.769)	22826386237	3.66200	3.662
27 Endrin Ketone	13.530	13.529	(0.790)	11522288287	0.68874	0.6887

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 28 DCB	15.436	15.434	(0.902)	15758956240	1.21616	1.216(R)
* 29 Decachlorodiphenyl Ether	17.118	17.115	(1.000)	21208438362	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051914.d
Lab Smp Id: 1685-136-0.4-4.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	21208438362	6.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 19May2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 1685-136-0.4-4.0
Client Smp ID: LCS
Level: LOW
Operator: LA/rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-159.spk
Quant Type: ISTD
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6504	81.31*	85-115
8 a-BHC	0.4000	0.3761	94.03	85-115
10 b-BHC	0.4000	0.3680	92.00	85-115
9 g-BHC	0.4000	0.3574	89.36	85-115
11 d-BHC	0.4000	0.3602	90.05	85-115
12 Heptachlor	0.4000	0.3821	95.52	85-115
13 Aldrin	0.4000	0.3751	93.78	85-115
14 Heptachlor Epoxide	0.4000	0.3761	94.02	85-115
17 Endosulfan I	0.4000	0.3770	94.24	85-115
18 DDE	0.8000	0.7122	89.03	85-115
19 Dieldrin	0.8000	0.7218	90.23	85-115
20 Endrin	0.8000	0.6961	87.01	85-115
22 Endosulfan II	0.8000	0.7112	88.90	85-115
21 DDD	0.8000	0.7230	90.38	85-115
24 Endrin Aldehyde	0.8000	0.6449	80.61*	85-115
25 Endosulfan Sulfate	0.8000	0.7097	88.72	85-115
23 DDT	0.8000	0.7277	90.97	85-115
27 Endrin Ketone	0.8000	0.6887	86.09	85-115
16 a-Chlordane	0.4000	0.3700	92.50	85-115
15 g-Chlordane	0.4000	0.3633	90.82	85-115
26 Methoxychlor	4.000	3.662	91.55	85-115
$ 28 DCB	1.600	1.216	76.01*	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6504	81.31	60-120
$ 28 DCB	1.100	1.216	76.01	60-120

Data File: /chem/gcp.i/19May2009.b/P051914.d

Date : 19-MAY-2009 21:30

Client ID: LCS

Sample Info: 1685-136-0.4-4.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0112

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051913.d
Lab Smp Id: 1685-109A-1.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:04
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-109A-1.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	Compound Not Detected.					
169 Mirex	13.476	13.475	(0.787)	10299024327	0.95972	0.9597
$ 28 DCB	Compound Not Detected.					
* 29 Decachlorodiphenyl Ether	17.116	17.115	(1.000)	21126349198	2.00000	

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051913.d
Lab Smp Id: 1685-109A-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	21126349198	6.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-109A-1.0
Level: LOW
Data Type: GC DATA
SpikeList File: mirex.spk
Sublist File: mirex.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
169 Mirex	1.000	0.9597	95.97	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.000	*	60-120
$ 28 DCB	0.6000	0.000	*	60-120

Data File: /chem/gcp.i/19May2009.b/P051913.d

Date : 19-MAY-2009 21:04

Client ID: LCS

Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0116

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051905.d
Lab Smp Id: 1685-135-0.1
Inj Date : 19-MAY-2009 17:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.1
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:30 Cal File: P051905.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.046	6.030	(0.353)	4190478206	0.20000	0.2130
8 a-BHC	7.039	7.021	(0.411)	2820156397	0.10000	0.1023
9 g-BHC	7.653	7.633	(0.447)	2663172423	0.10000	0.1028
10 b-BHC	7.800	7.779	(0.455)	1128113119	0.10000	0.1043
11 d-BHC	8.336	8.313	(0.486)	2396925742	0.10000	0.1012
12 Heptachlor	8.443	8.423	(0.493)	2623940448	0.10000	0.1057
13 Aldrin	9.048	9.028	(0.528)	2480556367	0.10000	0.1043
14 Heptachlor Epoxide	10.057	10.039	(0.587)	2188432073	0.10000	0.1053
15 g-Chlordane	10.370	10.352	(0.605)	2214613357	0.10000	0.1039
16 a-Chlordane	10.609	10.591	(0.619)	2107591847	0.10000	0.1043
17 Endosulfan I	10.707	10.690	(0.625)	1966937128	0.10000	0.1054
18 DDE	10.879	10.861	(0.635)	2003375945	0.10000	0.1036
19 Dieldrin	11.141	11.124	(0.650)	2081607034	0.10000	0.1040
20 Endrin	11.609	11.594	(0.678)	1830216283	0.10000	0.1038
21 DDD	11.769	11.752	(0.687)	1524047643	0.10000	0.1020
22 Endosulfan II	11.926	11.910	(0.696)	1707847391	0.10000	0.1034
23 DDT	12.220	12.205	(0.713)	1548241722	0.10000	0.09996
24 Endrin Aldehyde	12.414	12.399	(0.725)	1292290011	0.10000	0.1024
25 Endosulfan Sulfate	12.804	12.790	(0.747)	1377612062	0.10000	0.1001
26 Methoxychlor	13.169	13.157	(0.769)	6404170159	1.00000	1.074
169 Mirex	13.488	13.475	(0.787)	1036968506	0.10000	0.1031

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.542	13.529	(0.790)	1607814147	0.10000	0.1019
$	28 DCB	15.450	15.434	(0.902)	2542111961	0.20000	0.2074
*	29 Decachlorodiphenyl Ether	17.134	17.115	(1.000)	18430658910	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051905.d
Lab Smp Id: 1685-135-0.1
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	18430658910	-7.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.13	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051905.d

Date : 19-MAY-2009 17:30

Client ID:

Sample Info: 1685-135-0.1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051906.d
Lab Smp Id: 1685-135-0.2
Inj Date : 19-MAY-2009 17:57
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.2
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:57 Cal File: P051906.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.031	6.030	(0.352)	8320476346	0.40000	0.3915
8 a-BHC	7.022	7.021	(0.410)	5809554387	0.20000	0.1954
9 g-BHC	7.634	7.633	(0.446)	5434210531	0.20000	0.1947
10 b-BHC	7.781	7.779	(0.455)	2259525472	0.20000	0.1942
11 d-BHC	8.317	8.313	(0.486)	4874235102	0.20000	0.1922
12 Heptachlor	8.424	8.423	(0.492)	5393269220	0.20000	0.1994
13 Aldrin	9.029	9.028	(0.527)	5037450048	0.20000	0.1960
14 Heptachlor Epoxide	10.039	10.039	(0.587)	4399381713	0.20000	0.1959
15 g-Chlordane	10.353	10.352	(0.605)	4492427269	0.20000	0.1954
16 a-Chlordane	10.593	10.591	(0.619)	4258621346	0.20000	0.1954
17 Endosulfan I	10.691	10.690	(0.625)	3943326411	0.20000	0.1956
18 DDE	10.864	10.861	(0.635)	4031368037	0.20000	0.1939
19 Dieldrin	11.125	11.124	(0.650)	4232439245	0.20000	0.1958
20 Endrin	11.595	11.594	(0.677)	3729112240	0.20000	0.1957
21 DDD	11.755	11.752	(0.687)	3097601608	0.20000	0.1932
22 Endosulfan II	11.911	11.910	(0.696)	3530609854	0.20000	0.1972
23 DDT	12.207	12.205	(0.713)	3317060058	0.20000	0.1975
24 Endrin Aldehyde	12.401	12.399	(0.724)	2691135991	0.20000	0.1969
25 Endosulfan Sulfate	12.791	12.790	(0.747)	2955068029	0.20000	0.1978
26 Methoxychlor	13.157	13.157	(0.769)	12797624733	2.00000	1.978
169 Mirex	13.476	13.475	(0.787)	2134950060	0.20000	0.1963

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.530	13.529	(0.790)	3420526513	0.20000	0.1990
$ 28 DCB	15.435	15.434	(0.902)	5201669477	0.40000	0.3924
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	20116938105	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051906.d
Lab Smp Id: 1685-135-0.2
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	20116938105	0.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051906.d

Date : 19-MAY-2009 17:57

Client ID:

Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0124

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051907.d
Lab Smp Id: 1685-135-0.4
Inj Date : 19-MAY-2009 18:23
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.4
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 12:59 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:23 Cal File: P051907.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.030	6.030	(0.352)	15913794860	0.80000	0.8000
8 a-BHC	7.021	7.021	(0.410)	11636921972	0.40000	0.4000
9 g-BHC	7.633	7.633	(0.446)	10898880199	0.40000	0.4000
10 b-BHC	7.779	7.779	(0.454)	4477234347	0.40000	0.4000
11 d-BHC	8.313	8.313	(0.486)	10118923421	0.40000	0.4000
12 Heptachlor	8.423	8.423	(0.492)	10118190743	0.40000	0.4000
13 Aldrin	9.028	9.028	(0.527)	9843705134	0.40000	0.4000
14 Heptachlor Epoxide	10.039	10.039	(0.587)	8510457237	0.40000	0.4000
15 g-Chlordane	10.352	10.352	(0.605)	8854152809	0.40000	0.4000
16 a-Chlordane	10.591	10.591	(0.619)	8357126023	0.40000	0.4000
17 Endosulfan I	10.690	10.690	(0.625)	7640888517	0.40000	0.4000
18 DDE	10.861	10.861	(0.635)	8065454985	0.40000	0.4000
19 Dieldrin	11.124	11.124	(0.650)	8312366885	0.40000	0.4000
20 Endrin	11.594	11.594	(0.677)	7341785819	0.40000	0.4000
21 DDD	11.752	11.752	(0.687)	6327369617	0.40000	0.4000
22 Endosulfan II	11.910	11.910	(0.696)	6902151381	0.40000	0.4000
23 DDT	12.205	12.205	(0.713)	6700463213	0.40000	0.4000
24 Endrin Aldehyde	12.399	12.399	(0.724)	5323543032	0.40000	0.4000
25 Endosulfan Sulfate	12.790	12.790	(0.747)	5949772334	0.40000	0.4000
26 Methoxychlor	13.157	13.157	(0.769)	23860307640	4.00000	4.000
169 Mirex	13.475	13.475	(0.787)	4212507456	0.40000	0.4000

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.529	13.529	(0.790)	6697199731	0.40000	0.4000
$ 28 DCB	15.434	15.434	(0.902)	10210332030	0.80000	0.8000
* 29 Decachlorodiphenyl Ether	17.115	17.115	(1.000)	19926643419	2.00000	

Report Date: 19-May-2009 12:59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051907.d
Lab Smp Id: 1685-135-0.4
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	19926643419	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051907.d

Date : 19-MAY-2009 18:23

Client ID:

Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0128

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051912.d
Lab Smp Id: 1685-127-6.0
Inj Date : 19-MAY-2009 20:37
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-127-6.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: tox.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
M 3 toxaphene				11949733770	6.00000	6.000
4 toxaphene-1	11.498	11.517	(0.672)	3060669912	6.00000	6.000
5 toxaphene-2	12.030	12.049	(0.703)	4482979778	6.00000	6.000
6 toxaphene-3	12.528	12.547	(0.732)	2498515344	6.00000	6.000
7 toxaphene-4	12.904	12.907	(0.754)	1907568735	6.00000	6.000
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	21334075296	2.00000	

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051912.d
Lab Smp Id: 1685-127-6.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	21334075296	7.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051912.d

Date : 19-MAY-2009 20:37

Client ID:

Sample Info: 1685-127-6.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0131

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051908.d
Lab Smp Id: 1685-135-0.6
Inj Date : 19-MAY-2009 18:50
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.6
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:50 Cal File: P051908.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.029	6.030	(0.352)	22070318378	1.20000	1.066
8 a-BHC	7.021	7.021	(0.410)	16601018476	0.60000	0.5636
9 g-BHC	7.634	7.633	(0.446)	15314716321	0.60000	0.5561
10 b-BHC	7.779	7.779	(0.454)	6281734001	0.60000	0.5492
11 d-BHC	8.314	8.313	(0.486)	14261255743	0.60000	0.5668
12 Heptachlor	8.424	8.423	(0.492)	14118823074	0.60000	0.5351
13 Aldrin	9.029	9.028	(0.527)	13636847370	0.60000	0.5419
14 Heptachlor Epoxide	10.039	10.039	(0.586)	11642272715	0.60000	0.5323
15 g-Chlordane	10.353	10.352	(0.605)	12318775633	0.60000	0.5460
16 a-Chlordane	10.592	10.591	(0.619)	11624796100	0.60000	0.5441
17 Endosulfan I	10.690	10.690	(0.625)	10469433936	0.60000	0.5331
18 DDE	10.862	10.861	(0.635)	11245663238	0.60000	0.5500
19 Dieldrin	11.125	11.124	(0.650)	11498245673	0.60000	0.5429
20 Endrin	11.595	11.594	(0.677)	10210858613	0.60000	0.5462
21 DDD	11.752	11.752	(0.687)	8931065208	0.60000	0.5627
22 Endosulfan II	11.911	11.910	(0.696)	9335798291	0.60000	0.5347
23 DDT	12.206	12.205	(0.713)	9544050595	0.60000	0.5712
24 Endrin Aldehyde	12.401	12.399	(0.724)	7480792938	0.60000	0.5552
25 Endosulfan Sulfate	12.791	12.790	(0.747)	8424417752	0.60000	0.5678
26 Methoxychlor	13.157	13.157	(0.769)	33012836629	6.00000	5.257
169 Mirex	13.476	13.475	(0.787)	6001327631	0.60000	0.5586

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.530	13.529	(0.790)	9435202516	0.60000	0.5564
$ 28 DCB	15.435	15.434	(0.902)	14423662953	1.20000	1.105
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	20330333482	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051908.d
Lab Smp Id: 1685-135-0.6
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	20330333482	2.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051908.d

Date : 19-MAY-2009 18:50

Client ID:

Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0135

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051909.d
Lab Smp Id: 1685-135-0.8
Inj Date : 19-MAY-2009 19:17
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.8
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 19:17 Cal File: P051909.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.030	6.030	(0.352)	27996431680	1.60000	1.421
8 a-BHC	7.022	7.021	(0.410)	21334657621	0.80000	0.7518
9 g-BHC	7.635	7.633	(0.446)	19864635276	0.80000	0.7493
10 b-BHC	7.779	7.779	(0.454)	8105321892	0.80000	0.7386
11 d-BHC	8.314	8.313	(0.486)	18686274337	0.80000	0.7672
12 Heptachlor	8.424	8.423	(0.492)	17525736898	0.80000	0.7004
13 Aldrin	9.029	9.028	(0.528)	17397821563	0.80000	0.7238
14 Heptachlor Epoxide	10.040	10.039	(0.587)	14791689667	0.80000	0.7109
15 g-Chlordane	10.354	10.352	(0.605)	15815993623	0.80000	0.7321
16 a-Chlordane	10.594	10.591	(0.619)	14914386373	0.80000	0.7296
17 Endosulfan I	10.692	10.690	(0.625)	13287446769	0.80000	0.7110
18 DDE	10.862	10.861	(0.635)	14419465619	0.80000	0.7357
19 Dieldrin	11.126	11.124	(0.650)	14665140547	0.80000	0.7247
20 Endrin	11.595	11.594	(0.677)	13019161260	0.80000	0.7281
21 DDD	11.752	11.752	(0.687)	11578986529	0.80000	0.7562
22 Endosulfan II	11.911	11.910	(0.696)	11914364057	0.80000	0.7160
23 DDT	12.206	12.205	(0.713)	12316368770	0.80000	0.7626
24 Endrin Aldehyde	12.401	12.399	(0.724)	9594813162	0.80000	0.7414
25 Endosulfan Sulfate	12.792	12.790	(0.747)	10853394152	0.80000	0.7579
26 Methoxychlor	13.158	13.157	(0.769)	42101375906	8.00000	7.058
169 Mirex	13.476	13.475	(0.787)	7751874261	0.80000	0.7495

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.530	13.529	(0.790)	12072653207	0.80000	0.7414
$ 28 DCB	15.435	15.434	(0.902)	18533615404	1.60000	1.479
* 29 Decachlorodiphenyl Ether	17.117	17.115	(1.000)	19881409611	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051909.d
Lab Smp Id: 1685-135-0.8
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	19881409611	-0.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051909.d

Date : 19-MAY-2009 19:17

Client ID:

Sample Info: 1685-135-0.8

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0139

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051910.d
Lab Smp Id: 1685-135-1.0
Inj Date : 19-MAY-2009 19:43
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-1.0
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 19:43 Cal File: P051910.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.028	6.030	(0.352)	35114596843	2.00000	1.769
8 a-BHC	7.020	7.021	(0.410)	27265320824	1.00000	0.9429
9 g-BHC	7.633	7.633	(0.446)	25359951985	1.00000	0.9393
10 b-BHC	7.777	7.779	(0.454)	10348203459	1.00000	0.9280
11 d-BHC	8.312	8.313	(0.486)	24034623787	1.00000	0.9642
12 Heptachlor	8.423	8.423	(0.492)	21879337539	1.00000	0.8703
13 Aldrin	9.028	9.028	(0.528)	21921521378	1.00000	0.9022
14 Heptachlor Epoxide	10.039	10.039	(0.587)	18637490497	1.00000	0.8884
15 g-Chlordane	10.352	10.352	(0.605)	20159659289	1.00000	0.9198
16 a-Chlordane	10.592	10.591	(0.619)	18981788643	1.00000	0.9160
17 Endosulfan I	10.690	10.690	(0.625)	16712350657	1.00000	0.8872
18 DDE	10.860	10.861	(0.635)	18371347867	1.00000	0.9233
19 Dieldrin	11.125	11.124	(0.650)	18560109843	1.00000	0.9065
20 Endrin	11.594	11.594	(0.677)	16583301353	1.00000	0.9151
21 DDD	11.750	11.752	(0.687)	14922918946	1.00000	0.9542
22 Endosulfan II	11.911	11.910	(0.696)	14879785554	1.00000	0.8872
23 DDT	12.205	12.205	(0.713)	15850629118	1.00000	0.9598
24 Endrin Aldehyde	12.399	12.399	(0.724)	12219722496	1.00000	0.9291
25 Endosulfan Sulfate	12.790	12.790	(0.747)	13969054249	1.00000	0.9550
26 Methoxychlor	13.157	13.157	(0.769)	53933135517	10.0000	8.955
169 Mirex	13.475	13.475	(0.787)	10054626135	1.00000	0.9522

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.529	13.529	(0.790)	15370216805	1.00000	0.9288
$ 28 DCB	15.434	15.434	(0.902)	23925701053	2.00000	1.876
* 29 Decachlorodiphenyl Ether	17.115	17.115	(1.000)	20491774093	2.00000	

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051910.d
Lab Smp Id: 1685-135-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	20491774093	2.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.11	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0143

Data File: /chem/gcp.i/19May2009.b/P051910.d
Date : 19-MAY-2009 19:43
Client ID:
Sample Info: 1685-135-1.0

Instrument: gcp.i

Operator: LA/rn

Column phase:

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051911.d
Lab Smp Id: 1685-135-2.5
Inj Date : 19-MAY-2009 20:10
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-2.5
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/19May2009.b/p0910519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:10 Cal File: P051911.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.028	6.030	(0.352)	73195660122	5.00000	3.889(A)
8 a-BHC	7.022	7.021	(0.410)	62536157166	2.50000	2.309
9 g-BHC	7.634	7.633	(0.446)	56949076350	2.50000	2.260(A)
10 b-BHC	7.776	7.779	(0.454)	23082166911	2.50000	2.223
11 d-BHC	8.311	8.313	(0.486)	54860185220	2.50000	2.345
12 Heptachlor	8.425	8.423	(0.492)	44019549649	2.50000	1.918(A)
13 Aldrin	9.030	9.028	(0.528)	45617404669	2.50000	2.040(A)
14 Heptachlor Epoxide	10.041	10.039	(0.587)	38540735037	2.50000	2.002
15 g-Chlordane	10.354	10.352	(0.605)	43386888689	2.50000	2.138
16 a-Chlordane	10.594	10.591	(0.619)	40592628044	2.50000	2.118
17 Endosulfan I	10.692	10.690	(0.625)	34432925059	2.50000	1.993
18 DDE	10.860	10.861	(0.634)	38549931425	2.50000	2.098
19 Dieldrin	11.126	11.124	(0.650)	38682963433	2.50000	2.052(A)
20 Endrin	11.596	11.594	(0.677)	34577202452	2.50000	2.070(A)
21 DDD	11.750	11.752	(0.686)	32618937080	2.50000	2.238
22 Endosulfan II	11.911	11.910	(0.696)	31856277405	2.50000	2.062
23 DDT	12.205	12.205	(0.713)	34455055395	2.50000	2.238(A)
24 Endrin Aldehyde	12.401	12.399	(0.724)	26091056913	2.50000	2.142
25 Endosulfan Sulfate	12.791	12.790	(0.747)	30421182628	2.50000	2.232
26 Methoxychlor	13.161	13.157	(0.769)	89961299657	25.0000	15.75
169 Mirex	13.477	13.475	(0.787)	22535818067	2.50000	2.283

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.530	13.529	(0.790)	32858860253	2.50000	2.144
$ 28 DCB	15.436	15.434	(0.902)	52727654537	5.00000	4.441(A)
* 29 Decachlorodiphenyl Ether	17.118	17.115	(1.000)	19432365788	2.00000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051911.d
Lab Smp Id: 1685-135-2.5
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	19926643419	9963321709	39853286838	19432365788	-2.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051911.d

Date : 19-MAY-2009 20:10

Client ID:

Sample Info: 1685-135-2.5

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0147

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905b.d
Level 2: /chem/gcp.i/19May2009.b/P051906b.d
Level 3: /chem/gcp.i/19May2009.b/P051907b.d
Level 4: /chem/gcp.i/19May2009.b/P051912b.d
Level 5: /chem/gcp.i/19May2009.b/P051909b.d
Level 6: /chem/gcp.i/19May2009.b/P051910b.d
Level 7: /chem/gcp.i/19May2009.b/P051911b.d

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
M 3 toxaphene	+++++	+++++	+++++	0.16464	+++++	+++++		
	+++++						0.16464	0.000
4 toxaphene-1	+++++	+++++	+++++	0.05826	+++++	+++++		
	+++++						0.05826	0.000
5 toxaphene-2	+++++	+++++	+++++	0.04119	+++++	+++++		
	+++++						0.04119	0.000
6 toxaphene-3	+++++	+++++	+++++	0.03150	+++++	+++++		
	+++++						0.03150	0.000
7 toxaphene-4	+++++	+++++	+++++	0.03369	+++++	+++++		
	+++++						0.03369	0.000
8 a-BHC	1.94685	2.03442	2.22354	2.14186	2.19265	2.23174		
	2.29842						2.15278	5.707
9 g-BHC	1.86443	1.92120	2.08465	1.99413	2.03517	2.06604		
	2.11167						2.01104	4.494

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
10 b-BHC	0.81292	0.79245	0.83550	0.78789	0.79980	0.81006		
	0.81955						0.80831	2.040
11 d-BHC	1.71638	1.77233	1.98203	1.91170	1.89650	1.94368		
	2.02578						1.89263	5.877
12 Heptachlor	1.78384	1.83644	1.94902	1.84281	1.86177	1.88052		
	1.83636						1.85582	2.733
13 Aldrin	1.69800	1.76298	1.88450	1.78900	1.81134	1.83331		
	1.80005						1.79703	3.230
14 Heptachlor Epoxide	1.56501	1.58947	1.67671	1.57178	1.58314	1.59444		
	1.55718						1.59111	2.515
15 g-Chlordane	1.59477	1.63949	1.75806	1.66107	1.68542	1.71499		
	1.70907						1.68041	3.210
16 a-Chlordane	1.56551	1.59152	1.69381	1.59554	1.61296	1.64011		
	1.62799						1.61821	2.563
17 DDE	1.40755	1.40046	1.55177	1.47856	1.50409	1.53929		
	1.53981						1.48879	4.236
18 Endosulfan I	1.46805	1.52440	1.60742	1.49517	1.49957	1.50732		
	1.45642						1.50833	3.275
19 Dieldrin	1.55166	1.60249	1.71508	1.61363	1.62790	1.65210		
	1.62507						1.62685	3.058

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
20 Endrin	1.39653	1.43525	1.52245	1.42955	1.43678	1.46210		
	1.41927						1.44313	2.783
21 DDD	1.17702	1.21567	1.34638	1.27594	1.29348	1.32224		
	1.32560						1.27947	4.861
22 Endosulfan II	1.37600	1.38801	1.47244	1.33648	1.34028	1.33258		
	1.33621						1.36886	3.700
23 DDT	1.32732	1.36556	1.47739	1.40714	1.42057	1.46030		
	1.44592						1.41489	3.776
24 Endrin Aldehyde	1.15746	1.15293	1.19980	1.12665	1.13054	1.14408		
	1.13398						1.14935	2.177
25 Methoxychlor	0.64395	0.63213	0.65077	0.61080	0.61427	0.63138		
	+++++						0.63055	2.504
168 Mirex	1.07161	1.03118	1.06973	0.99424	0.99673	1.02634		
	1.02119						1.03015	3.015
26 Endosulfan Sulfate	1.23423	1.23521	1.32139	1.23082	1.24646	1.28387		
	1.27391						1.26084	2.678
27 Endrin Ketone	1.57105	1.57302	1.64873	1.54219	1.54512	1.57006		
	1.54022						1.57006	2.396
$ 2 TCMX	1.56752	1.56900	1.64608	1.56091	1.56873	1.57058		
	1.55087						1.57624	2.002

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Compound	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	___ RRF	% RSD
	2.500 Level 7							
$ 28 DCB	1.29958	1.25968	1.30852	1.22461	1.22688	1.25095		
	1.24150						1.25882	2.652

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 3.28182554                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Start Cal Date: 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
19-MAY-2009 17:30	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051905b.d

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.20000		
19-MAY-2009 17:57	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051906b.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 0.40000		
19-MAY-2009 18:23	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051907b.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 0.60000		
19-MAY-2009 20:37	tox	/chem/gcp.i/19May2009.b/P051912b.d
19-MAY-2009 18:50	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051908b.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 0.80000		
19-MAY-2009 19:17	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051909b.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 1.00000		
19-MAY-2009 19:44	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051910b.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 2.50000		
19-MAY-2009 20:10	pestCCV+mirex	/chem/gcp.i/19May2009.b/P051911b.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 3

```
+-------------------+-----------------+----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                          |
+==============================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907ab.d     |
+-------------------+-----------------+----------------------------------------+
| Ccal Level: 3 , Ccal Amount: 0.4000                                          |
+==============================================================================+
|19-MAY-2009 18:23 |pestCCV+mirex    |/chem/gcp.i/19May2009.b/P051907b.d      |
+-------------------+-----------------+----------------------------------------+
```

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 19-MAY-2009 17:30
End Cal Date : 19-MAY-2009 20:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Cal Date : 20-May-2009 08:19 lantonic
Curve Type : Average

Upper range for Methoxychlor is 10 ppm

2nd Source: P051914b
Mirex 2nd Source: P051913b
TOX: P051912b

Calibration File Names:
Level 1: /chem/gcp.i/19May2009.b/P051905b.d
Level 2: /chem/gcp.i/19May2009.b/P051906b.d
Level 3: /chem/gcp.i/19May2009.b/P051907b.d
Level 4: /chem/gcp.i/19May2009.b/P051912b.d
Level 5: /chem/gcp.i/19May2009.b/P051909b.d
Level 6: /chem/gcp.i/19May2009.b/P051910b.d
Level 7: /chem/gcp.i/19May2009.b/P051911b.d

Based on 1ul injection in Hexane

5/20/09

Compound (unit in ppm)	0.10000 Level 1	0.20000 Level 2	0.40000 Level 3	0.60000 Level 4	0.80000 Level 5	1.000 Level 6	2.500 Level 7	RRF	% RSD
M 3 toxaphene *	++++++	++++++	++++++	0.16464	++++++	++++++	++++++	0.16464	0.000
4 toxaphene-1	++++++	++++++	++++++	0.05826	++++++	++++++	++++++	0.05826	0.000
5 toxaphene-2	++++++	++++++	++++++	0.04119	++++++	++++++	++++++	0.04119	0.000
6 toxaphene-3	++++++	++++++	++++++	0.03150	++++++	++++++	++++++	0.03150	0.000
7 toxaphene-4	++++++	++++++	++++++	0.03369	++++++	++++++	++++++	0.03369	0.000
8 a-BHC	1.94685	2.03442	2.22354	2.14186	2.19265	2.23174	2.29842	2.15278	5.707
9 g-BHC	1.86443	1.92120	2.08465	1.99413	2.03517	2.06604	2.11167	2.01104	4.494

5/20/09

* Calibration level : 6.0 ppm

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

80

Method: Mod. TO-4A/TO-10A

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 2.31%
		Back:			Back: 2.25%
1685-320-50	Decafluorodiphenyl Ether	Front: 19926643419		DDT	Front: 3.12%
		Back: 6349112896			Back: 2.51%
NA	NA	Front: NA		*must be ≤15%*	
		Back:			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed (GMT)	Time Analyzed	Review Init.	Comments
1	✓	P051901	Hexane Wash	1	1.00	LA	5/19/09	1521	LA	
2	✓	02	1685-143-0.8 W/Add	2				1548		
3	X	03	1685-135-0.6 Pest	3				1615		CCV ↑
4	✓	04	Hexane Blank	4				1642		
5	✓	05	1685-135-0.1	5		RTN/LA		1730		Level 1
6	✓	06	-0.2	6				1757		Level 2
7	✓	07	-0.4	7				1823		Level 3, CCV
8	✓	08	-0.6	8				1850		Level 4
9	✓	09	-0.8	9				1917		Level 5
10	✓	10	-1.0	10				1943		Level 6
11	✓	11	-5.0, 50:100	11				2010		Level 7, 2.5 ppm
12	✓	12	1685-127-6.0, TOX	12				2037		TOX
13	✓	13	1685-109A-1.0	13				2104		LCS mirex
14	✓	14	1685-136-0.4	14				2130		LCS
15	✓	15	Hexane Blank	15				2157		
16	✓	16	090542A-Blank	16				2328		
17	✓	17	-LCS	17				2355		LCS
18	✓	18	-01A	18			5/20/09	0021		
19	✓	19	-01AA	18				0048		
20	✓	20	-04A	19				0115		
21	✓	21	1685-135-0.4	20				0142		
22	✓	22	Hexane Blank	21				0209		
23	✓	23	090526 1A-Blank	22				0235		
24	✓	24	-LCS	23				0302		LCS

Calculation Check: File ID: P051914 Compound: g-BHC Initials: [illegible]

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (982979 / 8842) × (2.100) / (212.68438302) (~~2.25192~~ 2.59350) [illegible] 5/20/09 = **0.35742**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.35742) × (1000) × (1.00) / (1000) = **0.35742**

Reported Result = 0.3574

[illegible]
Signed

5/20/09
Date

Revised: 02/27/06

Report Date: 20-May-2009 08:21 RBn 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Primary Column, RTX-CLPesticides II
Method : /chem/gcp.i/19May2009.b/BREAK.m
Meth Date : 29-Apr-2009 09:16 lantonic Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	CONCENTRATIONS FINAL (area)
M 1 Total DDT				9907148577		
M 2 Total Endrin				11771148865		
3 p,p'-DDE	10.867	11.033	-0.166	52545510		
4 Endrin	11.596	11.674	-0.078	11499305683		
5 p,p'-DDD	11.758	11.836	-0.078	256731395		
6 p,p'-DDT	12.207	12.236	-0.029	9597871672		
7 Endrin Aldehyde	12.403	12.433	-0.030	86207858		
8 Endrin Ketone	13.532	13.699	-0.167	185635323		

$$\text{Endrin Breakdown} = \frac{86207858 + 185635323}{11771148865} \times 100 = 2.31\%$$

$$\text{DDT Breakdown} = \frac{52545510 + 256731395}{9907148577} \times 100 = 3.12\%$$

Report Date: 20-May-2009 08:21

nm 5/20/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051902b.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 19-MAY-2009 15:48
Operator : LA Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Confirmation Column, RTX-CLPesticides
Method : /chem/gcp.i/19May2009.b/BREAK.m/BREAKB.m
Meth Date : 30-Jul-2003 09:29 lzhang Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M 1 Total DDT				3092786588		
M 2 Total Endrin				3417949801		
3 p,p'-DDE	10.240	10.260	-0.020	13604321		
4 Endrin	11.096	11.113	-0.017	3341046962		
5 p,p'-DDD	11.184	11.204	-0.020	64059536		
6 p,p'-DDT	11.593	11.768	-0.175	3015122731		
7 Endrin Aldehyde	12.047	12.227	-0.180	12336504		
8 Endrin Ketone	13.048	13.227	-0.179	64566333		

Endrin Breakdown $= \frac{12336504 + 64566333}{3417949801} \times 100 = 2.25\%$

DDT Breakdown $= \frac{13604321 + 64059536}{3092786588} \times 100 = 2.51\%$

Data File: /chem/gcp.i/19May2009.b/P051914b.d
Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-136-0.4-4.0
Level: LOW
Data Type: GC DATA
SpikeList File: 1050-159.spk
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6413	80.16*	85-115
8 a-BHC	0.4000	0.3682	92.05	85-115
10 b-BHC	0.4000	0.3596	89.91	85-115
9 g-BHC	0.4000	0.3511	87.77	85-115
11 d-BHC	0.4000	0.3602	90.04	85-115
12 Heptachlor	0.4000	0.3720	93.01	85-115
13 Aldrin	0.4000	0.3671	91.77	85-115
14 Heptachlor Epoxide	0.4000	0.3720	93.00	85-115
18 Endosulfan I	0.4000	0.3865	96.64	85-115
17 DDE	0.8000	0.7371	92.14	85-115
19 Dieldrin	0.8000	0.7529	94.12	85-115
20 Endrin	0.8000	0.7346	91.83	85-115
22 Endosulfan II	0.8000	0.7348	91.85	85-115
21 DDD	0.8000	0.7468	93.35	85-115
24 Endrin Aldehyde	0.8000	0.6537	81.71*	85-115
26 Endosulfan Sulfate	0.8000	0.7142	89.27	85-115
23 DDT	0.8000	0.7417	92.71	85-115
27 Endrin Ketone	0.8000	0.6851	85.63	85-115
16 a-Chlordane	0.4000	0.3654	91.35	85-115
15 g-Chlordane	0.4000	0.3590	89.76	85-115
25 Methoxychlor	4.000	3.663	91.57	85-115
$ 28 DCB	1.600	1.235	77.19*	85-115

avg : 89.86 RM 5/26/09

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6413	80.16	60-120
$ 28 DCB	1.100	1.235	77.19	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051914b.d
Lab Smp Id: 1685-136-0.4-4.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-136-0.4-4.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	5.847	5.845	(0.372)	3367220304	0.64131	0.6413(R)
8 a-BHC	6.722	6.720	(0.427)	2640423232	0.36821	0.3682
9 g-BHC	7.245	7.242	(0.461)	2351882453	0.35109	0.3511
10 b-BHC	7.389	7.386	(0.470)	968359722	0.35965	0.3596
11 d-BHC	7.705	7.701	(0.490)	2270691936	0.36017	0.3602
12 Heptachlor	8.064	8.062	(0.513)	2299782944	0.37202	0.3720
13 Aldrin	8.612	8.609	(0.548)	2197352608	0.36708	0.3671
14 Heptachlor Epoxide	9.693	9.691	(0.616)	1971659424	0.37201	0.3720
15 g-Chlordane	9.903	9.901	(0.630)	2009690592	0.35903	0.3590
16 a-Chlordane	10.124	10.121	(0.644)	1969700451	0.36542	0.3654
18 Endosulfan I	10.354	10.352	(0.658)	1942126574	0.38655	0.3865
17 DDE	10.242	10.240	(0.651)	3655409182	0.73709	0.7371
19 Dieldrin	10.737	10.734	(0.683)	4080182368	0.75293	0.7529
20 Endrin	11.100	11.098	(0.706)	3531507449	0.73464	0.7346
21 DDD	11.185	11.183	(0.711)	3182726272	0.74677	0.7468
22 Endosulfan II	11.441	11.438	(0.728)	3350391440	0.73478	0.7348
23 DDT	11.597	11.595	(0.738)	3495515395	0.74167	0.7417
24 Endrin Aldehyde	12.050	12.048	(0.766)	2502635566	0.65368	0.6537(R)
26 Endosulfan Sulfate	12.663	12.661	(0.805)	2999481475	0.71418	0.7142
25 Methoxychlor	12.278	12.275	(0.781)	7693346518	3.66282	3.663
27 Endrin Ketone	13.051	13.049	(0.830)	3582885696	0.68508	0.6851

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	14.399	14.396	(0.916)	5179038862	1.23511	1.235(R)
* 29 Decachlorodiphenyl Ether	15.725	15.720	(1.000)	6662073971	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051914b.d
Lab Smp Id: 1685-136-0.4-4.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6662073971	4.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 19May2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 1685-136-0.4-4.0
Client Smp ID: LCS
Level: LOW
Operator: LA/rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-159.spk
Quant Type: ISTD
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.8000	0.6413	80.16*	85-115
8 a-BHC	0.4000	0.3682	92.05	85-115
10 b-BHC	0.4000	0.3596	89.91	85-115
9 g-BHC	0.4000	0.3511	87.77	85-115
11 d-BHC	0.4000	0.3602	90.04	85-115
12 Heptachlor	0.4000	0.3720	93.01	85-115
13 Aldrin	0.4000	0.3671	91.77	85-115
14 Heptachlor Epoxide	0.4000	0.3720	93.00	85-115
18 Endosulfan I	0.4000	0.3865	96.64	85-115
17 DDE	0.8000	0.7371	92.14	85-115
19 Dieldrin	0.8000	0.7529	94.12	85-115
20 Endrin	0.8000	0.7346	91.83	85-115
22 Endosulfan II	0.8000	0.7348	91.85	85-115
21 DDD	0.8000	0.7468	93.35	85-115
24 Endrin Aldehyde	0.8000	0.6537	81.71*	85-115
26 Endosulfan Sulfate	0.8000	0.7142	89.27	85-115
23 DDT	0.8000	0.7417	92.71	85-115
27 Endrin Ketone	0.8000	0.6851	85.63	85-115
16 a-Chlordane	0.4000	0.3654	91.35	85-115
15 g-Chlordane	0.4000	0.3590	89.76	85-115
25 Methoxychlor	4.000	3.663	91.57	85-115
$ 28 DCB	1.600	1.235	77.19*	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.7000	0.6413	80.16	60-120
$ 28 DCB	1.100	1.235	77.19	60-120

Data File: /chem/gcp.i/19May2009.b/P051914b.d

Date : 19-MAY-2009 21:30

Client ID: LCS

Sample Info: 1685-136-0.4-4.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051913b.d
Lab Smp Id: 1685-109A-1.0 Client Smp ID: LCS
Inj Date : 19-MAY-2009 21:04
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-109A-1.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 20-May-2009 08:19 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 2 TCMX	Compound Not Detected.					
168 Mirex	12.524	12.522	(0.796)	3350294261	0.97831	0.9783
$ 28 DCB	Compound Not Detected.					
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6648693480	2.00000	

Report Date: 20-May-2009 08:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051913b.d
Lab Smp Id: 1685-109A-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6648693480	4.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-May-2009 08:21

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 1685-109A-1.0
Level: LOW
Data Type: GC DATA
SpikeList File: mirex.spk
Sublist File: mirex.sub
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Client SDG: 19May2009
Fraction:
Client Smp ID: LCS
Operator: LA/rn
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
168 Mirex	1.000	0.9783	97.83	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	0.000	*	60-120
$ 28 DCB	0.6000	0.000	*	60-120

Data File: /chem/gcp.i/19May2009.b/P051913b.d

Date : 19-MAY-2009 21:04

Client ID: LCS

Sample Info: 1685-109A-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0168

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051905b.d
Lab Smp Id: 1685-135-0.1
Inj Date : 19-MAY-2009 17:30
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.1
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:30 Cal File: P051905b.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.836	5.845	(0.371)	974163072	0.20000	0.1951
8 a-BHC	6.711	6.720	(0.427)	604954480	0.10000	0.09336
9 g-BHC	7.234	7.242	(0.460)	579343968	0.10000	0.09442
10 b-BHC	7.380	7.386	(0.469)	252603949	0.10000	0.09863
11 d-BHC	7.694	7.701	(0.489)	533340432	0.10000	0.09282
12 Heptachlor	8.054	8.062	(0.512)	554300864	0.10000	0.09557
13 Aldrin	8.601	8.609	(0.547)	527628535	0.10000	0.09479
14 Heptachlor Epoxide	9.685	9.691	(0.616)	486304216	0.10000	0.09655
15 g-Chlordane	9.895	9.901	(0.629)	495550238	0.10000	0.09513
16 a-Chlordane	10.116	10.121	(0.644)	486458714	0.10000	0.09606
18 Endosulfan I	10.348	10.352	(0.658)	456173739	0.10000	0.09547
17 DDE	10.236	10.240	(0.651)	437375930	0.10000	0.09513
19 Dieldrin	10.730	10.734	(0.683)	482153792	0.10000	0.09500
20 Endrin	11.095	11.098	(0.706)	433951570	0.10000	0.09569
21 DDD	11.181	11.183	(0.711)	365739893	0.10000	0.09329
22 Endosulfan II	11.435	11.438	(0.727)	427571120	0.10000	0.09661
23 DDT	11.593	11.595	(0.737)	412442944	0.10000	0.09465
24 Endrin Aldehyde	12.046	12.048	(0.766)	359664128	0.10000	0.09820
26 Endosulfan Sulfate	12.659	12.661	(0.805)	383518286	0.10000	0.09659
25 Methoxychlor	12.275	12.275	(0.781)	2000984676	1.00000	0.9947
168 Mirex	12.520	12.522	(0.796)	332986148	0.10000	0.1001

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.048	13.049	(0.830)	488178532	0.10000	0.09759
$	28 DCB	14.396	14.396	(0.916)	807649760	0.20000	0.1993
*	29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6214695272	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051905b.d
Lab Smp Id: 1685-135-0.1
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6214695272	-2.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051905b.d

Date : 19-MAY-2009 17:30

Client ID:

Sample Info: 1685-135-0.1

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0172

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051906b.d
Lab Smp Id: 1685-135-0.2
Inj Date : 19-MAY-2009 17:57
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.2
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 17:57 Cal File: P051906b.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.843	5.845	(0.372)	2075146528	0.40000	0.3937
8 a-BHC	6.718	6.720	(0.427)	1345353136	0.20000	0.1967
9 g-BHC	7.240	7.242	(0.461)	1270482275	0.20000	0.1964
10 b-BHC	7.386	7.386	(0.470)	524045481	0.20000	0.1948
11 d-BHC	7.701	7.701	(0.490)	1172031296	0.20000	0.1944
12 Heptachlor	8.060	8.062	(0.513)	1214431424	0.20000	0.1978
13 Aldrin	8.606	8.609	(0.547)	1165852488	0.20000	0.1979
14 Heptachlor Epoxide	9.689	9.691	(0.616)	1051107836	0.20000	0.1974
15 g-Chlordane	9.899	9.901	(0.630)	1084188274	0.20000	0.1970
16 a-Chlordane	10.120	10.121	(0.644)	1052466532	0.20000	0.1968
18 Endosulfan I	10.351	10.352	(0.658)	1008077573	0.20000	0.1988
17 DDE	10.240	10.240	(0.651)	926118806	0.20000	0.1927
19 Dieldrin	10.733	10.734	(0.683)	1059718960	0.20000	0.1975
20 Endrin	11.096	11.098	(0.706)	949126628	0.20000	0.1978
21 DDD	11.184	11.183	(0.711)	803914073	0.20000	0.1951
22 Endosulfan II	11.437	11.438	(0.728)	917886576	0.20000	0.1966
23 DDT	11.595	11.595	(0.738)	903041296	0.20000	0.1965
24 Endrin Aldehyde	12.047	12.048	(0.766)	762430336	0.20000	0.1971
26 Endosulfan Sulfate	12.660	12.661	(0.805)	816839936	0.20000	0.1955
25 Methoxychlor	12.276	12.275	(0.781)	4180260941	2.00000	1.968
168 Mirex	12.521	12.522	(0.797)	681917989	0.20000	0.1950

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.048	13.049	(0.830)	1040233888	0.20000	0.1969
$	28 DCB	14.395	14.396	(0.916)	1666047600	0.40000	0.3908
*	29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6612955283	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051906b.d
Lab Smp Id: 1685-135-0.2
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6612955283	4.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051906b.d

Date : 19-MAY-2009 17:57

Client ID:

Sample Info: 1685-135-0.2

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051907b.d
Lab Smp Id: 1685-135-0.4
Inj Date : 19-MAY-2009 18:23
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.4
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:00 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:23 Cal File: P051907b.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	4180464976	0.80000	0.8000
8 a-BHC	6.720	6.720	(0.427)	2823498624	0.40000	0.4000
9 g-BHC	7.242	7.242	(0.461)	2647135330	0.40000	0.4000
10 b-BHC	7.386	7.386	(0.470)	1060934845	0.40000	0.4000
11 d-BHC	7.701	7.701	(0.490)	2516823344	0.40000	0.4000
12 Heptachlor	8.062	8.062	(0.513)	2474908496	0.40000	0.4000
13 Aldrin	8.609	8.609	(0.548)	2392981240	0.40000	0.4000
14 Heptachlor Epoxide	9.691	9.691	(0.616)	2129120176	0.40000	0.4000
15 g-Chlordane	9.901	9.901	(0.630)	2232419654	0.40000	0.4000
16 a-Chlordane	10.121	10.121	(0.644)	2150840608	0.40000	0.4000
18 Endosulfan I	10.352	10.352	(0.658)	2041133282	0.40000	0.4000
17 DDE	10.240	10.240	(0.651)	1970473182	0.40000	0.4000
19 Dieldrin	10.734	10.734	(0.683)	2177850696	0.40000	0.4000
20 Endrin	11.098	11.098	(0.706)	1933242758	0.40000	0.4000
21 DDD	11.183	11.183	(0.711)	1709664887	0.40000	0.4000
22 Endosulfan II	11.438	11.438	(0.728)	1869733401	0.40000	0.4000
23 DDT	11.595	11.595	(0.738)	1876017129	0.40000	0.4000
24 Endrin Aldehyde	12.048	12.048	(0.766)	1523535264	0.40000	0.4000
26 Endosulfan Sulfate	12.661	12.661	(0.805)	1677935294	0.40000	0.4000
25 Methoxychlor	12.275	12.275	(0.781)	8263659710	4.00000	4.000
168 Mirex	12.522	12.522	(0.797)	1358373376	0.40000	0.4000

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.049	13.049	(0.830)	2093598977	0.40000	0.4000
$	28 DCB	14.396	14.396	(0.916)	3323175741	0.80000	0.8000
*	29 Decachlorodiphenyl Ether	15.720	15.720	(1.000)	6349112896	2.00000	

Report Date: 19-May-2009 13:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051907b.d
Lab Smp Id: 1685-135-0.4
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6349112896	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051907b.d

Date : 19-MAY-2009 18:23

Client ID:

Sample Info: 1685-135-0.4

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0180

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051912b.d
Lab Smp Id: 1685-127-6.0
Inj Date : 19-MAY-2009 20:37
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-127-6.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: tox.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
M 3 toxaphene				3358017626	6.00000	6.000
4 toxaphene-1	11.522	11.539	(0.733)	1188267372	6.00000	6.000
5 toxaphene-2	11.916	11.932	(0.758)	840083643	6.00000	6.000
6 toxaphene-3	12.188	12.192	(0.775)	642484837	6.00000	6.000
7 toxaphene-4	12.837	12.853	(0.816)	687181772	6.00000	6.000
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6798657433	2.00000	

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051912b.d
Lab Smp Id: 1685-127-6.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6798657433	7.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051912b.d

Date : 19-MAY-2009 20:37

Client ID:

Sample Info: 1685-127-6.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0183

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051908b.d
Lab Smp Id: 1685-135-0.6
Inj Date : 19-MAY-2009 18:50
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.6
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 18:50 Cal File: P051908b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	6081364960	1.20000	1.181
8 a-BHC	6.720	6.720	(0.427)	4172397648	0.60000	0.6159
9 g-BHC	7.243	7.242	(0.461)	3884612499	0.60000	0.6086
10 b-BHC	7.386	7.386	(0.470)	1534822094	0.60000	0.5856
11 d-BHC	7.701	7.701	(0.490)	3724026144	0.60000	0.6215
12 Heptachlor	8.063	8.062	(0.513)	3589842064	0.60000	0.5967
13 Aldrin	8.610	8.609	(0.548)	3485013040	0.60000	0.6018
14 Heptachlor Epoxide	9.692	9.691	(0.616)	3061867680	0.60000	0.5891
15 g-Chlordane	9.902	9.901	(0.630)	3235802560	0.60000	0.5992
16 a-Chlordane	10.122	10.121	(0.644)	3108144616	0.60000	0.5940
18 Endosulfan I	10.353	10.352	(0.658)	2912626337	0.60000	0.5887
17 DDE	10.240	10.240	(0.651)	2880275447	0.60000	0.6078
19 Dieldrin	10.735	10.734	(0.683)	3143379264	0.60000	0.5974
20 Endrin	11.099	11.098	(0.706)	2784803490	0.60000	0.5932
21 DDD	11.183	11.183	(0.711)	2485551918	0.60000	0.6106
22 Endosulfan II	11.439	11.438	(0.728)	2603493606	0.60000	0.5756
23 DDT	11.596	11.595	(0.738)	2741136797	0.60000	0.6055
24 Endrin Aldehyde	12.049	12.048	(0.766)	2194732912	0.60000	0.5831
26 Endosulfan Sulfate	12.662	12.661	(0.805)	2397657563	0.60000	0.5882
25 Methoxychlor	12.276	12.275	(0.781)	11898593986	6.00000	5.777
168 Mirex	12.523	12.522	(0.797)	1936800641	0.60000	0.5727

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.050	13.049	(0.830)	3004221920	0.60000	0.5842
$	28 DCB	14.397	14.396	(0.916)	4771133040	1.20000	1.154
*	29 Decachlorodiphenyl Ether	15.722	15.720	(1.000)	6493404327	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051908b.d
Lab Smp Id: 1685-135-0.6
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6493404327	2.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051908b.d

Date : 19-MAY-2009 18:50

Client ID:

Sample Info: 1685-135-0.6

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0187

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051909b.d
Lab Smp Id: 1685-135-0.8
Inj Date : 19-MAY-2009 19:17
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-0.8
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 13:02 lantonic Quant Type: ISTD
Cal Date : 19-MAY-2009 19:17 Cal File: P051909b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	7975048749	1.60000	1.586
8 a-BHC	6.720	6.720	(0.427)	5573471936	0.80000	0.8322
9 g-BHC	7.243	7.242	(0.461)	5173162391	0.80000	0.8223
10 b-BHC	7.386	7.386	(0.470)	2032991036	0.80000	0.7941
11 d-BHC	7.701	7.701	(0.490)	4820683083	0.80000	0.8176
12 Heptachlor	8.063	8.062	(0.513)	4732414931	0.80000	0.8030
13 Aldrin	8.610	8.609	(0.548)	4604219872	0.80000	0.8099
14 Heptachlor Epoxide	9.692	9.691	(0.616)	4024158592	0.80000	0.7929
15 g-Chlordane	9.902	9.901	(0.630)	4284137472	0.80000	0.8085
16 a-Chlordane	10.123	10.121	(0.644)	4099951725	0.80000	0.8005
18 Endosulfan I	10.354	10.352	(0.658)	3811728664	0.80000	0.7898
17 DDE	10.240	10.240	(0.651)	3823218652	0.80000	0.8194
19 Dieldrin	10.736	10.734	(0.683)	4137924410	0.80000	0.8028
20 Endrin	11.099	11.098	(0.706)	3652130738	0.80000	0.7959
21 DDD	11.183	11.183	(0.711)	3287874329	0.80000	0.8202
22 Endosulfan II	11.440	11.438	(0.728)	3406850996	0.80000	0.7755
23 DDT	11.596	11.595	(0.738)	3610923041	0.80000	0.8120
24 Endrin Aldehyde	12.049	12.048	(0.766)	2873713990	0.80000	0.7841
26 Endosulfan Sulfate	12.662	12.661	(0.805)	3168351471	0.80000	0.7954
25 Methoxychlor	12.277	12.275	(0.781)	15614061374	8.00000	7.795
168 Mirex	12.524	12.522	(0.797)	2533577810	0.80000	0.7721

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.050	13.049	(0.830)	3927506976	0.80000	0.7843
$	28 DCB	14.398	14.396	(0.916)	6237173926	1.60000	1.553
*	29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6354715762	2.00000	

Report Date: 19-May-2009 13:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051909b.d
Lab Smp Id: 1685-135-0.8
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6354715762	0.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051909b.d
Date : 19-MAY-2009 19:17
Client ID:
Sample Info: 1685-135-0.8

Column phase:

Instrument: gcp.i

Operator: LA/rn
Column diameter: 2.00

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051910b.d
Lab Smp Id: 1685-135-1.0
Inj Date : 19-MAY-2009 19:44
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-1.0
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 19:44 Cal File: P051910b.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.844	5.845	(0.372)	10291674634	2.00000	1.987
8 a-BHC	6.719	6.720	(0.427)	7312053056	1.00000	1.048
9 g-BHC	7.242	7.242	(0.461)	6769161655	1.00000	1.036(A)
10 b-BHC	7.384	7.386	(0.470)	2654063017	1.00000	1.004
11 d-BHC	7.699	7.701	(0.490)	6368261967	1.00000	1.039
12 Heptachlor	8.062	8.062	(0.513)	6161341363	1.00000	1.012(A)
13 Aldrin	8.609	8.609	(0.548)	6006659168	1.00000	1.020(A)
14 Heptachlor Epoxide	9.691	9.691	(0.616)	5224025466	1.00000	0.9985
15 g-Chlordane	9.901	9.901	(0.630)	5618986896	1.00000	1.023
16 a-Chlordane	10.122	10.121	(0.644)	5373646057	1.00000	1.014
18 Endosulfan I	10.353	10.352	(0.658)	4938571712	1.00000	0.9936
17 DDE	10.239	10.240	(0.651)	5043312855	1.00000	1.040
19 Dieldrin	10.735	10.734	(0.683)	5412940096	1.00000	1.015(A)
20 Endrin	11.099	11.098	(0.706)	4790430834	1.00000	1.010(A)
21 DDD	11.181	11.183	(0.711)	4332171745	1.00000	1.040
22 Endosulfan II	11.439	11.438	(0.728)	4366072526	1.00000	0.9696
23 DDT	11.595	11.595	(0.738)	4784530774	1.00000	1.036(A)
24 Endrin Aldehyde	12.049	12.048	(0.766)	3748465229	1.00000	0.9932
26 Endosulfan Sulfate	12.661	12.661	(0.805)	4206481968	1.00000	1.020
25 Methoxychlor	12.276	12.275	(0.781)	20686445028	10.0000	10.01
168 Mirex	12.523	12.522	(0.797)	3362708354	1.00000	0.9949

	Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
	27 Endrin Ketone	13.049	13.049	(0.830)	5144143200	1.00000	0.9968
$	28 DCB	14.397	14.396	(0.916)	8197237278	2.00000	1.983
*	29 Decachlorodiphenyl Ether	15.722	15.720	(1.000)	6552793955	2.00000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051910b.d
Lab Smp Id: 1685-135-1.0
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6552793955	3.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051910b.d

Date : 19-MAY-2009 19:44

Client ID:

Sample Info: 1685-135-1.0

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0195

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/19May2009.b/P051911b.d
Lab Smp Id: 1685-135-2.5
Inj Date : 19-MAY-2009 20:10
Operator : LA/rn Inst ID: gcp.i
Smp Info : 1685-135-2.5
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Meth Date : 19-May-2009 16:10 rnoonan Quant Type: ISTD
Cal Date : 19-MAY-2009 20:10 Cal File: P051911b.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV+mirex.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.845	5.845	(0.372)	24533716048	5.00000	4.920(A)
8 a-BHC	6.720	6.720	(0.427)	18179740512	2.50000	2.669
9 g-BHC	7.243	7.242	(0.461)	16702566573	2.50000	2.625(A)
10 b-BHC	7.384	7.386	(0.470)	6482396931	2.50000	2.535
11 d-BHC	7.699	7.701	(0.490)	16023262429	2.50000	2.676
12 Heptachlor	8.064	8.062	(0.513)	14524943048	2.50000	2.474(A)
13 Aldrin	8.611	8.609	(0.548)	14237808192	2.50000	2.504(A)
14 Heptachlor Epoxide	9.693	9.691	(0.616)	12316796921	2.50000	2.447
15 g-Chlordane	9.903	9.901	(0.630)	13518129762	2.50000	2.543
16 a-Chlordane	10.123	10.121	(0.644)	12876830057	2.50000	2.515
18 Endosulfan I	10.354	10.352	(0.659)	11519786096	2.50000	2.414
17 DDE	10.239	10.240	(0.651)	12179333686	2.50000	2.586
19 Dieldrin	10.736	10.734	(0.683)	12853742209	2.50000	2.497(A)
20 Endrin	11.100	11.098	(0.706)	11225904817	2.50000	2.459(A)
21 DDD	11.181	11.183	(0.711)	10485058033	2.50000	2.590
22 Endosulfan II	11.440	11.438	(0.728)	10568997382	2.50000	2.440
23 DDT	11.596	11.595	(0.738)	11436763001	2.50000	2.555(A)
24 Endrin Aldehyde	12.049	12.048	(0.766)	8969388442	2.50000	2.466
26 Endosulfan Sulfate	12.662	12.661	(0.805)	10076209881	2.50000	2.526
25 Methoxychlor	12.277	12.275	(0.781)	51231570480	25.0000	25.68
168 Mirex	12.525	12.522	(0.797)	8077273798	2.50000	2.478

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
27 Endrin Ketone	13.051	13.049	(0.830)	12182639200	2.50000	2.452
$ 28 DCB	14.399	14.396	(0.916)	19639693688	5.00000	4.931(A)
* 29 Decachlorodiphenyl Ether	15.723	15.720	(1.000)	6327724829	2.00000	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 19-May-2009 16:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P051911b.d
Lab Smp Id: 1685-135-2.5
Analysis Type:
Quant Type: ISTD
Operator: LA/rn
Method File: /chem/gcp.i/19May2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 19-MAY-2009
Calibration Time: 18:23

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	6349112896	3174556448	12698225792	6327724829	-0.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/19May2009.b/P051911b.d

Date : 19-MAY-2009 20:10

Client ID:

Sample Info: 1685-135-2.5

Column phase:

Instrument: gcp.i

Operator: LA/rn

Column diameter: 2.00

0199

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203.d
Level 2: /chem/gcp.i/22May2009.b/P052204.d
Level 3: /chem/gcp.i/22May2009.b/P052214.d
Level 4: /chem/gcp.i/22May2009.b/P052206.d
Level 5: /chem/gcp.i/22May2009.b/P052207.d
Level 6: /chem/gcp.i/22May2009.b/P052208.d
Level 7: /chem/gcp.i/22May2009.b/P052209.d

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	RRF	% RSD
M 3 pcb1016/1242	0.26787	0.24319	0.24359	0.21806	0.20847	0.20893	0.19543	0.22650	11.330
4 pcb1016/1242-1	0.04399	0.03783	0.03845	0.03492	0.03414	0.03419	0.03184	0.03648	11.010
5 pcb1016/1242-2	0.11150	0.09688	0.09655	0.08668	0.08535	0.08523	0.07934	0.09165	11.806
6 pcb1016/1242-3	0.06420	0.06599	0.06521	0.05720	0.04962	0.04987	0.04686	0.05699	14.474
7 pcb1016/1242-4	0.04817	0.04249	0.04338	0.03926	0.03936	0.03964	0.03740	0.04139	8.760
M 8 pcb1260	0.43703	0.37330	0.38315	0.35109	0.34612	0.34761	0.32849	0.36669	9.803
9 pcb1260-1	0.09282	0.07813	0.07943	0.07236	0.07100	0.07101	0.06673	0.07592	11.384

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
10 pcb1260-2	0.11289	0.09496	0.09707	0.08839	0.08669	0.08688	0.08167	0.09265	11.166
11 pcb1260-3	0.07951	0.06821	0.07029	0.06495	0.06426	0.06486	0.06156	0.06766	8.777
12 pcb1260-4	0.15182	0.13200	0.13635	0.12539	0.12418	0.12487	0.11852	0.13045	8.468
M 13 pcb1221	+++++	+++++	0.07316	+++++	+++++	+++++	+++++	0.07316	0.000
14 pcb1221-1	+++++	+++++	0.00796	+++++	+++++	+++++	+++++	0.00796	0.000
15 pcb1221-2	+++++	+++++	0.01602	+++++	+++++	+++++	+++++	0.01602	0.000
16 pcb1221-3	+++++	+++++	0.00939	+++++	+++++	+++++	+++++	0.00939	0.000
17 pcb1221-4	+++++	+++++	0.03978	+++++	+++++	+++++	+++++	0.03978	0.000
M 18 pcb1232	+++++	+++++	0.04289	+++++	+++++	+++++	+++++	0.04289	0.000
19 pcb1232-1	+++++	+++++	0.01147	+++++	+++++	+++++	+++++	0.01147	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
20 pcb1232-2	+++++	+++++	0.00891	+++++	+++++	+++++	+++++	0.00891	0.000
21 pcb1232-3	+++++	+++++	0.01106	+++++	+++++	+++++	+++++	0.01106	0.000
22 pcb1232-4	+++++	+++++	0.01144	+++++	+++++	+++++	+++++	0.01144	0.000
M 23 pcb1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 pcb1242-1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 pcb1242-2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 pcb1242-3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 pcb1242-4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 28 pcb1248	+++++	+++++	0.13073	+++++	+++++	+++++	+++++	0.13073	0.000
29 pcb1248-1	+++++	+++++	0.03236	+++++	+++++	+++++	+++++	0.03236	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:44 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
30 pcb1248-2	+++++	+++++	0.02743	+++++	+++++	+++++			
	+++++							0.02743	0.000
31 pcb1248-3	+++++	+++++	0.04963	+++++	+++++	+++++			
	+++++							0.04963	0.000
32 pcb1248-4	+++++	+++++	0.02132	+++++	+++++	+++++			
	+++++							0.02132	0.000
M 33 pcb1254	+++++	+++++	0.31903	+++++	+++++	+++++			
	+++++							0.31903	0.000
34 pcb1254-1	+++++	+++++	0.07069	+++++	+++++	+++++			
	+++++							0.07069	0.000
35 pcb1254-2	+++++	+++++	0.06705	+++++	+++++	+++++			
	+++++							0.06705	0.000
36 pcb1254-3	+++++	+++++	0.08961	+++++	+++++	+++++			
	+++++							0.08961	0.000
37 pcb1254-4	+++++	+++++	0.09167	+++++	+++++	+++++			
	+++++							0.09167	0.000
$ 2 TCMX	1.87183	1.62611	1.62293	1.49125	1.46558	1.45848			
	1.37862							1.55926	10.552
$ 38 DCB	1.23021	1.05225	1.08607	1.00411	0.99776	1.00550			
	0.95609							1.04743	8.660

Calibration History

Method : /chem/gcp.i/22May2009.b/p09p0522.m
Start Cal Date: 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
22-MAY-2009 19:06	CCV	/chem/gcp.i/22May2009.b/P052203.d

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 5.00000		
22-MAY-2009 23:59	1254NS	/chem/gcp.i/22May2009.b/P052214.d
22-MAY-2009 23:33	1248NS	/chem/gcp.i/22May2009.b/P052213.d
22-MAY-2009 23:06	1232NS	/chem/gcp.i/22May2009.b/P052212.d
22-MAY-2009 22:39	1221NS	/chem/gcp.i/22May2009.b/P052211.d
22-MAY-2009 19:59	CCV	/chem/gcp.i/22May2009.b/P052205.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 15.00000		
22-MAY-2009 21:46	CCV	/chem/gcp.i/22May2009.b/P052209.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206a.d
Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m
Cal Date : 01-Jun-2009 12:43 lzhang
Curve Type : Average

2nd Source: P052603

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203.d
Level 2: /chem/gcp.i/22May2009.b/P052204.d
Level 3: /chem/gcp.i/22May2009.b/P052214.d
Level 4: /chem/gcp.i/22May2009.b/P052206.d
Level 5: /chem/gcp.i/22May2009.b/P052207.d
Level 6: /chem/gcp.i/22May2009.b/P052208.d
Level 7: /chem/gcp.i/22May2009.b/P052209.d

see Calib History

PCB 1221 - P052211
1232 - P052212
1248 - P052213
1254 - P052214
1242 - P052215 - info only

Based on 1 ul injection

Compound (unit in ppm)	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	RRF	% RSD
	15.000 Level 7							
M 3 pcb1016/1242	0.26787	0.24319	0.24359	0.21806	0.20847	0.20893		
	0.19543						0.22650	11.330
4 pcb1016/1242-1	0.04399	0.03783	0.03845	0.03492	0.03414	0.03419		
	0.03184						0.03648	11.010
5 pcb1016/1242-2	0.11150	0.09688	0.09655	0.08668	0.08535	0.08523		
	0.07934						0.09165	11.806
6 pcb1016/1242-3	0.06420	0.06599	0.06521	0.05720	0.04962	0.04987		
	0.04686						0.05699	14.474
7 pcb1016/1242-4	0.04817	0.04249	0.04338	0.03926	0.03936	0.03964		
	0.03740						0.04139	8.760
M 8 pcb1260	0.43703	0.37330	0.38315	0.35109	0.34612	0.34761		
	0.32849						0.36669	9.803
9 pcb1260-1	0.09282	0.07813	0.07943	0.07236	0.07100	0.07101		
	0.06673						0.07592	11.384

pm 6/1/09

6/1/09

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

83

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: NA
		Back: ↓			Back:
1685-32D-50	Decafluorodiphenyl Ether	Front: 21320271892		DDT	Front:
		Back: 62096655562			Back: ↓
NA	NA	Front: NA		must be ≤15%	
		Back: ↓			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed (GMT)	Review Init.	Comments
1	✓	P052201	Hexane Wash	1	1.0	RM	5/22/09	1812	LA	
2	✓	02	Hexane Blank	2				1839		
3	✓	03	1685-137-1.0	3				1906		
4	✓	04	-3.0	4				1932		
5	✓	05	-5.0	5				1959		
6	✓	06	-8.0	6				2026		CCV.
7	✓	07	-10	7				2053		
8	✓	08	-12	8				2119		
9	✓	09	-15	9				2146		
10	X	10	1685-128-5.0 PCB LCS	10				2213		surr ↑
11	✓	11	1685-121-5.0,1221	11				2239		
12	✓	12	1685-121-5.0,1232	12				2306		
13	✓	13	,1248	13				2333		
14	✓	14	,1254	14				2359		
15	✓	15	,1242	15			5/23/09	0026		
16										
17										
18										
19										
20										
21										
22										
23										
24							RM 5/26/09			

Calculation Check: File ID: P052206 Compound: pcb 1016/1242 Initials: LA

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (18922198359) / (21320271892) × (2.00) / (0.23171) = **7.66**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (7.66) × (1000) × (1.00) / (1000) = **7.66**

Reported Result = 7.66

Signed: Samuel Antonicelli

Date: 5/22/09

0207

Revised: 02/27/06

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

85

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 5.77 %
		Back: ↓			Back: 5.97 %
1685-320-50	Decafluorodiphenyl Ether	Front: 18898128504		DDT	Front: 8.40 %
		Back: 5731711199			Back: 6.48 %
NA	NA	Front: NA			
		Back: ↓			must be ≤15%

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed (GMT)	Review Init.	Comments
1	✓	P052601	Hexane Wash	1	1.0	LA	5/26/09	1549	LA	
2	✓	02	1685-137-8.0 PCB CCV	2				1616		
3	✓	03	1685-153-8.0 PCB LCS	3				1643		
4	✓	04	1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05	Hexane Wash	1		nm		2054		
6	✓	06	1685-143-0.8 tune	2				2120		
7	✓	07	1685-135-0.6 Pest CCV	3				2147		
8	✓	08	Hexane Blank	4				2214		
9	✓	09	0905530B-Blank	5			↓	2341		
10	X	10	-Pest LCS	6			5/27/09	0008		~~Loo~~ nm 5/27/09
11	✓	11	-05A	7				0035		
12	✓	12	-06A	8				0102		
13	✓	13	-07A	9				0128		
14	✓	14	-08A	10				0155		
15	✓	15	-08AA	10				0222		
16	✓	16	1685-135-0.6 Pest CCV	11		↓		0248		
17	✓	17	Hexane Wash	12		LA		1526		
18	✓	18	0905530B-LCS	13				1553		
19	✓	19	1685-135-0.6 Pest CCV	14				1620		
20	✓	20	Hexane Blank	15		nm		1802		
21	✓	21	0905530A-05AA	16				1829		
22	✓	22	1685-135-0.6 Pest CCV	17				1855		
23										
24								LA 5/27/09		

Calculation Check: File ID: V052619 Compound: a-BHC Initials: nm

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (14405387052) / (1804770354) × (2.00) / (2.786691) = **0.65234**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.65234) × (1000) × (1) / (1000) = **0.65234**

Reported Result = _____

Signed: nm

Date: 5/27/09

0208

Revised: 02/27/06

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/26May2009.b/P052603.d
Lab Smp Id: 1685-153-8.0 PCB Client Smp ID: LCS
Inj Date : 26-MAY-2009 16:43
Operator : LA Inst ID: gcp.i
Smp Info : 1685-153-8.0 PCB LCS
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/26May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 13:09 lantonic Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	6.028	6.029	(0.352)	22129849380	1.55839	1.56
M 3 pcb1016/1242				14731431894	7.14144	7.14
4 pcb1016/1242-1	7.441	7.442	(0.435)	2470468669	7.43612	7.44
5 pcb1016/1242-2	8.240	8.240	(0.481)	5552548121	6.65267	6.65(R)
6 pcb1016/1242-3	8.478	8.477	(0.495)	3871142841	7.45827	7.46
7 pcb1016/1242-4	9.310	9.311	(0.544)	2837272263	7.52770	7.53
M 8 pcb1260				25838023852	7.73717	7.74
9 pcb1260-1	11.371	11.372	(0.664)	5208283618	7.53232	7.53
10 pcb1260-2	11.679	11.680	(0.682)	6122130911	7.25552	7.26
11 pcb1260-3	12.752	12.753	(0.745)	5035714592	8.17192	8.17
12 pcb1260-4	13.088	13.089	(0.765)	9471894732	7.97298	7.97
$ 38 DCB	15.434	15.436	(0.902)	15300966899	1.60403	1.60
* 39 Decachlorodiphenyl Ether	17.115	17.119	(1.000)	18214313389	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052603.d
Lab Smp Id: 1685-153-8.0 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/26May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 26-MAY-2009
Calibration Time: 16:16
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	16689543951	8344771975	33379087902	18214313389	9.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.11	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 26May2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-153-8.0 PCB
Client Smp ID: LCS
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/26May2009.b/p09p0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	1.60	1.56	97.40	85-115
M 3 pcb1016/1242	8.00	7.14	89.27	85-115
4 pcb1016/1242-1	8.00	7.44	92.95	85-115
5 pcb1016/1242-2	8.00	6.65	83.16*	85-115
6 pcb1016/1242-3	8.00	7.46	93.23	85-115
7 pcb1016/1242-4	8.00	7.53	94.10	85-115
M 8 pcb1260	8.00	7.74	96.71	85-115
9 pcb1260-1	8.00	7.53	94.15	85-115
10 pcb1260-2	8.00	7.26	90.69	85-115
11 pcb1260-3	8.00	8.17	102.15	85-115
12 pcb1260-4	8.00	7.97	99.66	85-115
$ 38 DCB	1.60	1.60	100.25	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	1.56	97.40	60-120
$ 38 DCB	0.600	1.60	100.25	60-120

Data File: /chem/gcp.i/26May2009.b/P052603.d

Date : 26-MAY-2009 16:43

Client ID: LCS

Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

0213

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052203.d
Lab Smp Id: 1685-137-1.0
Inj Date : 22-MAY-2009 19:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-1.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 12:43 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.031	6.030	(0.352)	3833117146	0.20000	0.240
M 3 pcb1016/1242				2742655944	1.00000	1.18
4 pcb1016/1242-1	7.444	7.443	(0.435)	450415148	1.00000	1.20
5 pcb1016/1242-2	8.262	8.262	(0.483)	1141611009	1.00000	1.22
6 pcb1016/1242-3	8.495	8.480	(0.496)	657378676	1.00000	1.13
7 pcb1016/1242-4	9.313	9.312	(0.544)	493251111	1.00000	1.16
M 8 pcb1260				4474768177	1.00000	1.19
9 pcb1260-1	11.372	11.373	(0.664)	950337772	1.00000	1.22
10 pcb1260-2	11.681	11.681	(0.683)	1155881506	1.00000	1.22
11 pcb1260-3	12.753	12.754	(0.745)	814118050	1.00000	1.18
12 pcb1260-4	13.090	13.090	(0.765)	1554430849	1.00000	1.16
$ 38 DCB	15.433	15.436	(0.902)	2519209302	0.20000	0.235
* 39 Decachlorodiphenyl Ether	17.114	17.119	(1.000)	20477870776	2.00000	

Report Date: 01-Jun-2009 12:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052203.d
Lab Smp Id: 1685-137-1.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	20477870776	-3.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.11	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052203.d

Date : 22-MAY-2009 19:06

Client ID:

Sample Info: 1685-137-1.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0216

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052204.d
Lab Smp Id: 1685-137-3.0
Inj Date : 22-MAY-2009 19:32
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-3.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:32 Cal File: P052204.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.030	6.030	(0.352)	10279579409	0.60000	0.626
M 3 pcb1016/1242				7686570901	3.00000	3.19
4 pcb1016/1242-1	7.443	7.443	(0.435)	1195626203	3.00000	3.11
5 pcb1016/1242-2	8.250	8.262	(0.482)	3062149084	3.00000	3.17
6 pcb1016/1242-3	8.486	8.480	(0.496)	2085811726	3.00000	3.35
7 pcb1016/1242-4	9.312	9.312	(0.544)	1342983888	3.00000	3.08
M 8 pcb1260				11799320576	3.00000	3.05
9 pcb1260-1	11.373	11.373	(0.664)	2469590666	3.00000	3.09
10 pcb1260-2	11.681	11.681	(0.682)	3001640728	3.00000	3.07
11 pcb1260-3	12.753	12.754	(0.745)	2155992991	3.00000	3.02
12 pcb1260-4	13.090	13.090	(0.765)	4172096190	3.00000	3.04
$ 38 DCB	15.435	15.436	(0.902)	6651844972	0.60000	0.603
* 39 Decachlorodiphenyl Ether	17.116	17.119	(1.000)	21071911933	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052204.d
Lab Smp Id: 1685-137-3.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 19:32

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21071911933	10535955967	42143823867	21071911933	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052204.d

Date : 22-MAY-2009 19:32

Client ID:

Sample Info: 1685-137-3.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0219

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052214.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1254
Inj Date : 22-MAY-2009 23:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1254PCB 1254
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:55 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1254NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 33 pcb1254				17010377557	5.00000	5.00
34 pcb1254-1	10.030	10.066	(0.586)	3769331689	5.00000	5.00
35 pcb1254-2	10.341	10.340	(0.604)	3574838505	5.00000	5.00
36 pcb1254-3	11.084	11.084	(0.647)	4778168805	5.00000	5.00
37 pcb1254-4	12.216	12.216	(0.714)	4888038559	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.120	17.119	(1.000)	21327736514	2.00000	

Report Date: 01-Jun-2009 11:55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052214.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1254
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21327736514	0.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052214.d

Date : 22-MAY-2009 23:59

Client ID: PCB 1254

Sample Info: 1685-121-5.0 PCB 1254PCB 1254

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0222

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052213.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1248
Inj Date : 22-MAY-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1248
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1248NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 28 pcb1248				7231266713	5.00000	5.00
29 pcb1248-1	8.983	9.120	(0.525)	1789812909	5.00000	5.00
30 pcb1248-2	9.873	9.918	(0.577)	1517118585	5.00000	5.00
31 pcb1248-3	9.974	9.974	(0.583)	2745221379	5.00000	5.00
32 pcb1248-4	10.904	10.904	(0.637)	1179113840	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.121	17.119	(1.000)	22126105488	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052213.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1248
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	22126105488	3.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052213.d

Date : 22-MAY-2009 23:33

Client ID: PCB 1248

Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0225

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052212.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1232
Inj Date : 22-MAY-2009 23:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1232
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1232NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 18 pcb1232				2393304708	5.00000	5.00
19 pcb1232-1	7.871	7.892	(0.460)	639945068	5.00000	5.00
20 pcb1232-2	8.685	8.686	(0.507)	497466832	5.00000	5.00
21 pcb1232-3	8.826	8.826	(0.516)	617239361	5.00000	5.00
22 pcb1232-4	8.911	8.911	(0.520)	638653447	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.119	17.119	(1.000)	22322107763	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052212.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1232
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	22322107763	4.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052212.d

Date : 22-MAY-2009 23:06

Client ID: PCB 1232

Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0228

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052211.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1221
Inj Date : 22-MAY-2009 22:39
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1221
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1221NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 13 pcb1221				3970451781	5.00000	5.00
14 pcb1221-1	5.342	5.441	(0.312)	431963628	5.00000	5.00
15 pcb1221-2	6.485	6.485	(0.379)	869411973	5.00000	5.00
16 pcb1221-3	6.706	6.706	(0.392)	509833929	5.00000	5.00
17 pcb1221-4	6.802	6.803	(0.397)	2159242251	5.00000	5.00
* 39 Decachlorodiphenyl Ether	17.122	17.119	(1.000)	21709480321	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052211.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1221
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21709480321	1.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052211.d

Date : 22-MAY-2009 22:39

Client ID: PCB 1221

Sample Info: 1685-121-5.0 PCB 1221

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0231

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052205.d
Lab Smp Id: 1685-137-5.0
Inj Date : 22-MAY-2009 19:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-5.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.030	6.030	(0.352)	17177361230	1.00000	1.04
M 3 pcb1016/1242				12890825726	5.00000	5.33
4 pcb1016/1242-1	7.443	7.443	(0.435)	2034791139	5.00000	5.27
5 pcb1016/1242-2	8.244	8.262	(0.482)	5109270272	5.00000	5.27
6 pcb1016/1242-3	8.482	8.480	(0.496)	3450946797	5.00000	5.52
7 pcb1016/1242-4	9.312	9.312	(0.544)	2295817518	5.00000	5.24
M 8 pcb1260				20276630857	5.00000	5.22
9 pcb1260-1	11.372	11.373	(0.664)	4203718616	5.00000	5.23
10 pcb1260-2	11.680	11.681	(0.682)	5137265598	5.00000	5.24
11 pcb1260-3	12.753	12.754	(0.745)	3719761941	5.00000	5.19
12 pcb1260-4	13.089	13.090	(0.765)	7215884702	5.00000	5.23
$ 38 DCB	15.434	15.436	(0.902)	11495108596	1.00000	1.04
* 39 Decachlorodiphenyl Ether	17.117	17.119	(1.000)	21168292148	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052205.d
Lab Smp Id: 1685-137-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 23:59

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21168292148	10584146074	42336584296	21168292148	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052205.d

Date : 22-MAY-2009 19:59

Client ID:

Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0234

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052206.d
Lab Smp Id: 1685-137-8.0
Inj Date : 22-MAY-2009 20:26
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-8.0
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:26 Cal File: P052206.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.030	6.030	(0.352)	25420100614	1.60000	1.53
M 3 pcb1016/1242				18585751993	8.00000	7.63
4 pcb1016/1242-1	7.443	7.443	(0.435)	2976401795	8.00000	7.66
5 pcb1016/1242-2	8.242	8.242	(0.481)	7388179671	8.00000	7.57
6 pcb1016/1242-3	8.480	8.480	(0.495)	4874786202	8.00000	7.74
7 pcb1016/1242-4	9.312	9.312	(0.544)	3346384325	8.00000	7.59
M 8 pcb1260				29923905006	8.00000	7.66
9 pcb1260-1	11.373	11.373	(0.664)	6166884225	8.00000	7.62
10 pcb1260-2	11.681	11.681	(0.682)	7533731689	8.00000	7.63
11 pcb1260-3	12.754	12.754	(0.745)	5536010411	8.00000	7.68
12 pcb1260-4	13.090	13.090	(0.765)	10687278680	8.00000	7.69
$ 38 DCB	15.436	15.436	(0.902)	17116192113	1.60000	1.53
* 39 Decachlorodiphenyl Ether	17.119	17.119	(1.000)	21307648584	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052206.d
Lab Smp Id: 1685-137-8.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21307648584	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052206.d

Date : 22-MAY-2009 20:26

Client ID:

Sample Info: 1685-137-8.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0237

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052207.d
Lab Smp Id: 1685-137-10
Inj Date : 22-MAY-2009 20:53
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-10
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:53 Cal File: P052207.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

						AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
Compounds	RT	EXP RT	REL RT	RESPONSE			
$ 2 TCMX	6.030	6.030	(0.352)	31324001995		2.00000	1.88
M 3 pcb1016/1242				22278049603		10.0000	9.12
4 pcb1016/1242-1	7.443	7.443	(0.435)	3648011624		10.0000	9.36
5 pcb1016/1242-2	8.241	8.242	(0.481)	9120802431		10.0000	9.31
6 pcb1016/1242-3	8.478	8.480	(0.495)	5302783173		10.0000	8.40
7 pcb1016/1242-4	9.311	9.312	(0.544)	4206452375		10.0000	9.51
M 8 pcb1260				36987974774		10.0000	9.44
9 pcb1260-1	11.373	11.373	(0.664)	7587098328		10.0000	9.35
10 pcb1260-2	11.680	11.681	(0.682)	9263941075		10.0000	9.36
11 pcb1260-3	12.753	12.754	(0.745)	6866657988		10.0000	9.50
12 pcb1260-4	13.089	13.090	(0.765)	13270277383		10.0000	9.52
$ 38 DCB	15.436	15.436	(0.902)	21325288062		2.00000	1.90
* 39 Decachlorodiphenyl Ether	17.119	17.119	(1.000)	21373083312		2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052207.d
Lab Smp Id: 1685-137-10
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	21373083312	0.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052207.d

Date : 22-MAY-2009 20:53

Client ID:

Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0240

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052208.d
Lab Smp Id: 1685-137-12
Inj Date : 22-MAY-2009 21:19
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-12
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:19 Cal File: P052208.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.029	6.030	(0.352)	35966879697	2.40000	2.24
M 3 pcb1016/1242				25761231936	12.0000	11.0
4 pcb1016/1242-1	7.442	7.443	(0.435)	4216093250	12.0000	11.2
5 pcb1016/1242-2	8.240	8.242	(0.481)	10509113226	12.0000	11.2
6 pcb1016/1242-3	8.477	8.480	(0.495)	6148594137	12.0000	10.1
7 pcb1016/1242-4	9.310	9.312	(0.544)	4887431323	12.0000	11.5
M 8 pcb1260				42861740439	12.0000	11.4
9 pcb1260-1	11.372	11.373	(0.664)	8755384528	12.0000	11.2
10 pcb1260-2	11.680	11.681	(0.682)	10712000129	12.0000	11.2
11 pcb1260-3	12.752	12.754	(0.745)	7997372558	12.0000	11.5
12 pcb1260-4	13.088	13.090	(0.765)	15396983224	12.0000	11.5
$ 38 DCB	15.435	15.436	(0.902)	24796067954	2.40000	2.30
* 39 Decachlorodiphenyl Ether	17.117	17.119	(1.000)	20550459704	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052208.d
Lab Smp Id: 1685-137-12
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	20550459704	-3.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052208.d

Date : 22-MAY-2009 21:19

Client ID:

Sample Info: 1685-137-12

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0243

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/22May2009.b/P052209.d
Lab Smp Id: 1685-137-15
Inj Date : 22-MAY-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-15
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/22May2009.b/p09p0522.m
Meth Date : 01-Jun-2009 11:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:46 Cal File: P052209.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.029	6.030	(0.352)	43156806211	3.00000	2.65
M 3 pcb1016/1242				30589529919	15.0000	12.8
4 pcb1016/1242-1	7.442	7.443	(0.435)	4983483673	15.0000	13.1
5 pcb1016/1242-2	8.239	8.242	(0.481)	12417886567	15.0000	13.0
6 pcb1016/1242-3	8.476	8.480	(0.495)	7334869227	15.0000	11.9
7 pcb1016/1242-4	9.311	9.312	(0.544)	5853290452	15.0000	13.6
M 8 pcb1260				51415679794	15.0000	13.4
9 pcb1260-1	11.372	11.373	(0.664)	10444897890	15.0000	13.2
10 pcb1260-2	11.680	11.681	(0.682)	12783419641	15.0000	13.2
11 pcb1260-3	12.753	12.754	(0.745)	9636104276	15.0000	13.6
12 pcb1260-4	13.089	13.090	(0.765)	18551257987	15.0000	13.6
$ 38 DCB	15.436	15.436	(0.902)	29929712758	3.00000	2.74
* 39 Decachlorodiphenyl Ether	17.118	17.119	(1.000)	20869538353	2.00000	

Report Date: 01-Jun-2009 11:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052209.d
Lab Smp Id: 1685-137-15
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	21307648584	10653824292	42615297168	20869538353	-2.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.12	16.62	17.62	17.12	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052209.d

Date : 22-MAY-2009 21:46

Client ID:

Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0246

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203b.d
Level 2: /chem/gcp.i/22May2009.b/P052204b.d
Level 3: /chem/gcp.i/22May2009.b/P052214b.d
Level 4: /chem/gcp.i/22May2009.b/P052206b.d
Level 5: /chem/gcp.i/22May2009.b/P052207b.d
Level 6: /chem/gcp.i/22May2009.b/P052208b.d
Level 7: /chem/gcp.i/22May2009.b/P052209b.d

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
M 3 pcb1016/1242	0.21274	0.18605	0.19481	0.18515	0.18496	0.18723	0.18005	0.19014	5.728
4 pcb1016/1242-1	0.05469	0.05010	0.05085	0.04751	0.04699	0.04757	0.04534	0.04901	6.379
5 pcb1016/1242-2	0.06728	0.05990	0.06415	0.06172	0.06202	0.06285	0.06068	0.06266	3.931
6 pcb1016/1242-3	0.05286	0.04450	0.04611	0.04372	0.04360	0.04403	0.04244	0.04532	7.730
7 pcb1016/1242-4	0.03792	0.03155	0.03370	0.03220	0.03234	0.03278	0.03159	0.03315	6.714
M 8 pcb1260	0.39538	0.34165	0.36181	0.33885	0.34155	0.34685	0.33448	0.35151	6.033
9 pcb1260-1	0.08096	0.06846	0.07059	0.06518	0.06519	0.06573	0.06308	0.06846	8.815

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	___ RRF	% RSD
	15.000 Level 7							
10 pcb1260-2	0.11846	0.10201	0.10706	0.09967	0.10061	0.10193		
	0.09792						0.10395	6.735
11 pcb1260-3	0.06518	0.05586	0.05854	0.05479	0.05521	0.05617		
	0.05444						0.05717	6.614
12 pcb1260-4	0.13077	0.11532	0.12562	0.11922	0.12054	0.12303		
	0.11903						0.12193	4.158
M 13 pcb1221	+++++	+++++	0.05939	+++++	+++++	+++++		
	+++++						0.05939	0.000
14 pcb1221-1	+++++	+++++	0.00883	+++++	+++++	+++++		
	+++++						0.00883	0.000
15 pcb1221-2	+++++	+++++	0.01321	+++++	+++++	+++++		
	+++++						0.01321	0.000
16 pcb1221-3	+++++	+++++	0.00691	+++++	+++++	+++++		
	+++++						0.00691	0.000
17 pcb1221-4	+++++	+++++	0.03044	+++++	+++++	+++++		
	+++++						0.03044	0.000
M 18 pcb1232	+++++	+++++	0.03867	+++++	+++++	+++++		
	+++++						0.03867	0.000
19 pcb1232-1	+++++	+++++	0.00880	+++++	+++++	+++++		
	+++++						0.00880	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
20 pcb1232-2	+++++	+++++	0.01249	+++++	+++++	+++++	+++++	0.01249	0.000
21 pcb1232-3	+++++	+++++	0.00844	+++++	+++++	+++++	+++++	0.00844	0.000
22 pcb1232-4	+++++	+++++	0.00894	+++++	+++++	+++++	+++++	0.00894	0.000
M 23 pcb1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 pcb1242-1	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 pcb1242-2	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 pcb1242-3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 pcb1242-4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 28 pcb1248	+++++	+++++	0.10519	+++++	+++++	+++++	+++++	0.10519	0.000
29 pcb1248-1	+++++	+++++	0.02598	+++++	+++++	+++++	+++++	0.02598	0.000

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

Compound	1.000 Level 1	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	15.000 Level 7	___ RRF	% RSD
30 pcb1248-2	+++++	+++++	0.02011	+++++	+++++	+++++	+++++	0.02011	0.000
31 pcb1248-3	+++++	+++++	0.04296	+++++	+++++	+++++	+++++	0.04296	0.000
32 pcb1248-4	+++++	+++++	0.01614	+++++	+++++	+++++	+++++	0.01614	0.000
M 33 pcb1254	+++++	+++++	0.28280	+++++	+++++	+++++	+++++	0.28280	0.000
34 pcb1254-1	+++++	+++++	0.04931	+++++	+++++	+++++	+++++	0.04931	0.000
35 pcb1254-2	+++++	+++++	0.07401	+++++	+++++	+++++	+++++	0.07401	0.000
36 pcb1254-3	+++++	+++++	0.07795	+++++	+++++	+++++	+++++	0.07795	0.000
37 pcb1254-4	+++++	+++++	0.08153	+++++	+++++	+++++	+++++	0.08153	0.000
$ 2 TCMX	1.45494	1.35907	1.43079	1.36632	1.38480	1.39996	1.34976	1.39223	2.799
$ 38 DCB	1.19011	1.04305	1.10952	1.05229	1.06372	1.08714	1.04634	1.08460	4.825

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 5.87170553                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Calibration History

Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Start Cal Date: 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
22-MAY-2009 19:06	CCV	/chem/gcp.i/22May2009.b/P052203b.d

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 3.00000		
22-MAY-2009 19:32	CCV	/chem/gcp.i/22May2009.b/P052204b.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 5.00000		
22-MAY-2009 23:59	1254NS	/chem/gcp.i/22May2009.b/P052214b.d
22-MAY-2009 23:33	1248NS	/chem/gcp.i/22May2009.b/P052213b.d
22-MAY-2009 23:06	1232NS	/chem/gcp.i/22May2009.b/P052212b.d
22-MAY-2009 22:39	1221NS	/chem/gcp.i/22May2009.b/P052211b.d
22-MAY-2009 19:59	CCV	/chem/gcp.i/22May2009.b/P052205b.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 8.00000		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206b.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 10.00000		
22-MAY-2009 20:53	CCV	/chem/gcp.i/22May2009.b/P052207b.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 12.00000		
22-MAY-2009 21:19	CCV	/chem/gcp.i/22May2009.b/P052208b.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 15.00000		
22-MAY-2009 21:46	CCV	/chem/gcp.i/22May2009.b/P052209b.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 4

Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206ab.d
Ccal Level: 4 , Ccal Amount: 8.00		
22-MAY-2009 20:26	CCV	/chem/gcp.i/22May2009.b/P052206b.d

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2009 19:06
End Cal Date : 22-MAY-2009 23:59
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Cal Date : 01-Jun-2009 11:35 lzhang
Curve Type : Average

2nd Source : P052603b

Calibration File Names:
Level 1: /chem/gcp.i/22May2009.b/P052203b.d
Level 2: /chem/gcp.i/22May2009.b/P052204b.d
Level 3: /chem/gcp.i/22May2009.b/P052214b.d
Level 4: /chem/gcp.i/22May2009.b/P052206b.d
Level 5: /chem/gcp.i/22May2009.b/P052207b.d
Level 6: /chem/gcp.i/22May2009.b/P052208b.d
Level 7: /chem/gcp.i/22May2009.b/P052209b.d

See Calibration History

PCB 1221 - P052211b
1232 - P052212b
1248 - P052213b
1254 - P052214b
~~1242~~ 1242 - P052215b info only

Based on 1uL injection

Compound (units in ppm)	1.000 Level 1 / 15.000 Level 7	3.000 Level 2	5.000 Level 3	8.000 Level 4	10.000 Level 5	12.000 Level 6	RRF	% RSD
M 3 pcb1016/1242	0.21274	0.18605	0.19481	0.18515	0.18496	0.18723		
	0.18005						0.19014	5.728
4 pcb1016/1242-1	0.05469	0.05010	0.05085	0.04751	0.04699	0.04757		
	0.04534						0.04901	6.379
5 pcb1016/1242-2	0.06728	0.05990	0.06415	0.06172	0.06202	0.06285		
	0.06068						0.06266	3.931
6 pcb1016/1242-3	0.05286	0.04450	0.04611	0.04372	0.04360	0.04403		
	0.04244						0.04532	7.730
7 pcb1016/1242-4	0.03792	0.03155	0.03370	0.03220	0.03234	0.03278		
	0.03159						0.03315	6.714
M 8 pcb1260	0.39538	0.34165	0.36181	0.33885	0.34155	0.34685		
	0.33448						0.35151	6.033
9 pcb1260-1	0.08096	0.06846	0.07059	0.06518	0.06519	0.06573		
	0.06308						0.06846	8.815

rm 6/1/09

6/1/09

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

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IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: NA
		Back: ↓			Back:
1685-32D-5C	Decafluorodiphenyl Ether	Front: 213202271892		DDT	Front:
		Back: 620966655662			Back: ↓
NA	NA	Front: NA		must be ≤15%	
		Back: ↓			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed (GMT)	Time Analyzed	Review Init.	Comments
1	✓	P052201	Hexane Wash	1	1.0	RM	5/22/09	1812	LA	
2	✓	02	Hexane Blank	2				1839		
3	✓	03	1685-137-1.0	3				1906		
4	✓	04	-3.0	4				1932		
5	✓	05	-5.0	5				1959		
6	✓	06	-8.0	6				2026		CCV.
7	✓	07	-10	7				2053		
8	✓	08	-12	8				2119		
9	✓	09	-15	9				2146		
10	X	10	1685-128-5.0 PCB LCS	10				2213		surr ↑
11	✓	11	1685-121-5.0,1221	11				2239		
12	✓	12	1685-121-5.0,1232	12				2306		
13	✓	13	,1248	13				2333		
14	✓	14	,1254	14				2359		
15	✓	15	,1242	15			5/23/09	0026		
16										
17										
18										
19										
20										
21										
22										
23										
24							RM 5/26/09			

Calculation Check: File ID: P052206 Compound: pcb 1016/1242 Initials: LA

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (182227198359) / (213202271892) × (2.00) / (0.23171) = **7.66**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (7.66) × (1000) / (1000) × (1.00) = **7.66**

Reported Result = 7.66

Signed: Lynette Antonicelli

Date: 5/22/09

Revised: 02/27/06

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

Method: Mod. TO-4A/TO-10A

85

IS Std ID	IS	Area Counts		Breakdown %	
NA	1-Bromo-2-Nitrobenzene	Front: NA		Endrin	Front: 5.77%
		Back: ↓			Back: 5.97%
1685-32D-50	Decafluorodiphenyl Ether	Front: 18898128504		DDT	Front: 8.40%
		Back: 5731711199			Back: 6.48%
NA	NA	Front: NA		must be ≤15%	
		Back: ↓			

Injection Volume: 1.0 µL

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed (GMT)	Review Init.	Comments
1	✓	P052601	Hexane Wash	1	1.0	LA	5/26/09	1549	LA	
2	✓	02	1685-137-8.0 PCB CCV	2				1616		
3	✓	03	1685-153-8.0 PCB LCS	3				1643		
4	✓	04	1685-137-8.0 PCB CCV	4		↓		1726		
5	✓	05	Hexane Wash	1		nm		2054		
6	✓	06	1685-143-0.8 tune	2				2120		
7	✓	07	1685-135-0.6 Pest CCV	3				2147		
8	✓	08	Hexane Blank	4				2214		
9	✓	09	0905530B-Blank	5			↓	2341		
10	X	10	-Pest LCS	6			5/27/09	0008		13 ~~Low~~ low nm 5/27/09
11	✓	11	-05A	7				0035		
12	✓	12	-06A	8				0102		
13	✓	13	-07A	9				0128		
14	✓	14	-08A	10				0155		
15	✓	15	-08AA	10				0222		
16	✓	16	1685-135-0.6 Pest CCV	11		↓		0248		
17	✓	17	Hexane Wash	12		LA		1526		
18	✓	18	0905530B-LCS	13				1553		
19	✓	19	1685-135-0.6 Pest CCV	14		↓		1620		
20	✓	20	Hexane Blank	15		nm		1802		
21	✓	21	0905530A-05AA	16				1829		
22	✓	22	1685-135-0.6 Pest CCV	17	↓	↓	↓	1855		
23										
24								LA 5/27/09		

Calculation Check: File ID: V052619 Compound: a-BHC Initials: nm

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF_{AVG} = (14405587052) / (18047703541) × (2.00) / (2.786691) = 0.65234

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.65234) × (1000) / (1000) × (1) = 0.65234

Reported Result = _____

nmoonan
Signed

5/27/09
Date

Revised: 02/27/06

File Security Edit Display Process Help

Sample: 1685-137-1.0 Type: CALIB_1 Inj.Date: 22-MAY-2009 19:06 Col: 1

Compound Not In Metho

*+	2	TCMX
M+	3	pcb1016/1242
+	4	pcb1016/1242-1
+	5	pcb1016/1242-2
+	6	pcb1016/1242-3
+	7	pcb1016/1242-4
M+	8	pcb1260
+	9	pcb1260-1
+	10	pcb1260-2
+	11	pcb1260-3
+	12	pcb1260-4
*+	38	DCB
*+	39	Decachlorodiph

F052203b.d

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	7.736	259703451	1.36	1.36	100		

- Mark pcb1016/1242-2 Undetected.

Before

W. 611109

After

Correct Baseline	n/a
Split Peak	
Merge Peak	
Zoom In	
Change Parameter	
System Peak Subtraction	
Peak Misidentified	✓
Corrected Peak Integration	✓

W 6/1/09

SS 6/1/09

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/26May2009.b/P052603b.d
Lab Smp Id: 1685-153-8.0 PCB Client Smp ID: LCS
Inj Date : 26-MAY-2009 16:43
Operator : LA Inst ID: gcp.i
Smp Info : 1685-153-8.0 PCB LCS
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 13:09 lantonic Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	5.843	5.842	(0.372)	6475554236	1.62834	1.63
M 3 pcb1016/1242				4057436883	7.47058	7.47
4 pcb1016/1242-1	6.937	6.935	(0.441)	1062666558	7.59123	7.59
5 pcb1016/1242-2	7.718	7.715	(0.491)	1322009893	7.38644	7.39
6 pcb1016/1242-3	7.942	7.940	(0.505)	951722152	7.35160	7.35
7 pcb1016/1242-4	8.651	8.649	(0.550)	721038278	7.61389	7.61
M 8 pcb1260				7975741662	7.94348	7.94
9 pcb1260-1	10.707	10.705	(0.681)	1467848046	7.50646	7.51
10 pcb1260-2	11.130	11.128	(0.708)	2156360856	7.26234	7.26
11 pcb1260-3	12.074	12.072	(0.768)	1382122259	8.46368	8.46
12 pcb1260-4	12.502	12.501	(0.795)	2969410500	8.52561	8.52
$ 38 DCB	14.397	14.395	(0.916)	5000855168	1.61419	1.61
* 39 Decachlorodiphenyl Ether	15.722	15.719	(1.000)	5712825214	2.00000	

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052603b.d
Lab Smp Id: 1685-153-8.0 PCB
Analysis Type: VOA
Quant Type: ISTD
Operator: LA
Method File: /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 26-MAY-2009
Calibration Time: 16:16
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	5474794735	2737397367	10949589470	5712825214	4.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.72	15.22	16.22	15.72	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 01-Jun-2009 13:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 26May2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-153-8.0 PCB
Client Smp ID: LCS
Level: LOW
Operator: LA
Data Type: GC DATA
SampleType: LCS
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/26May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	1.60	1.63	101.77	85-115
M 3 pcb1016/1242	8.00	7.47	93.38	85-115
4 pcb1016/1242-1	8.00	7.59	94.89	85-115
5 pcb1016/1242-2	8.00	7.39	92.33	85-115
6 pcb1016/1242-3	8.00	7.35	91.89	85-115
7 pcb1016/1242-4	8.00	7.61	95.17	85-115
M 8 pcb1260	8.00	7.94	99.29	85-115
9 pcb1260-1	8.00	7.51	93.83	85-115
10 pcb1260-2	8.00	7.26	90.78	85-115
11 pcb1260-3	8.00	8.46	105.80	85-115
12 pcb1260-4	8.00	8.52	106.57	85-115
$ 38 DCB	1.60	1.61	100.89	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	1.63	101.77	60-120
$ 38 DCB	0.600	1.61	100.89	60-120

Data File: /chem/gcp.i/26May2009.b/P052603b.d

Date : 26-MAY-2009 16:43

Client ID: LCS

Sample Info: 1685-153-8.0 PCB LCS

Column phase:

Instrument: gcp.i

Operator: LA

Column diameter: 2.00

0262

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052203b.d
Lab Smp Id: 1685-137-1.0
Inj Date : 22-MAY-2009 19:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-1.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:35 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203b.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	839893391	0.20000	0.209
M 3 pcb1016/1242				614054225	1.00000	1.12
4 pcb1016/1242-1	6.940	6.940	(0.441)	157853813	1.00000	1.12
5 pcb1016/1242-2	7.735	7.721	(0.492)	194186812	1.00000	1.07(M)
6 pcb1016/1242-3	7.960	7.945	(0.506)	152570380	1.00000	1.17
7 pcb1016/1242-4	8.654	8.655	(0.550)	109443220	1.00000	1.14
M 8 pcb1260				1141191489	1.00000	1.12
9 pcb1260-1	10.709	10.710	(0.681)	233670240	1.00000	1.18
10 pcb1260-2	11.134	11.133	(0.708)	341927793	1.00000	1.14
11 pcb1260-3	12.075	12.077	(0.768)	188146662	1.00000	1.14
12 pcb1260-4	12.505	12.505	(0.795)	377446794	1.00000	1.07
$ 38 DCB	14.396	14.400	(0.916)	687013308	0.20000	0.219
* 39 Decachlorodiphenyl Ether	15.721	15.725	(1.000)	5772702923	2.00000	

QC Flag Legend

M - Compound response manually integrated.

Report Date: 01-Jun-2009 12:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052203b.d
Lab Smp Id: 1685-137-1.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	5772702923	-7.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.72	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052203b.d

Date : 22-MAY-2009 19:06

Client ID:

Sample Info: 1685-137-1.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0266

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052204b.d
Lab Smp Id: 1685-137-3.0
Inj Date : 22-MAY-2009 19:32
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-3.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:32 Cal File: P052204b.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	2454083005	0.60000	0.586
M 3 pcb1016/1242				1679773748	3.00000	2.94
4 pcb1016/1242-1	6.940	6.940	(0.441)	452313384	3.00000	3.07
5 pcb1016/1242-2	7.726	7.721	(0.491)	540836660	3.00000	2.87
6 pcb1016/1242-3	7.949	7.945	(0.506)	401739977	3.00000	2.94
7 pcb1016/1242-4	8.654	8.655	(0.550)	284883727	3.00000	2.86
M 8 pcb1260				3084643993	3.00000	2.92
9 pcb1260-1	10.710	10.710	(0.681)	618131818	3.00000	3.00
10 pcb1260-2	11.134	11.133	(0.708)	920962423	3.00000	2.94
11 pcb1260-3	12.076	12.077	(0.768)	504336504	3.00000	2.93
12 pcb1260-4	12.505	12.505	(0.795)	1041213248	3.00000	2.84
$ 38 DCB	14.399	14.400	(0.916)	1883452023	0.60000	0.577
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6019039360	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052204b.d
Lab Smp Id: 1685-137-3.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 19:32

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6019039360	3009519680	12038078720	6019039360	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052204b.d

Date : 22-MAY-2009 19:32

Client ID:

Sample Info: 1685-137-3.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0269

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052214b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1254
Inj Date : 22-MAY-2009 23:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1254
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:35 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1254NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 33 pcb1254				4452229211	5.00000	5.00
34 pcb1254-1	9.331	9.345	(0.593)	776232959	5.00000	5.00
35 pcb1254-2	9.770	9.801	(0.621)	1165229563	5.00000	5.00
36 pcb1254-3	10.432	10.432	(0.663)	1227145810	5.00000	5.00
37 pcb1254-4	11.564	11.593	(0.735)	1283620879	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.728	15.725	(1.000)	6297319512	2.00000	

Report Date: 01-Jun-2009 11:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052214b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1254
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6297319512	1.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052214b.d

Date : 22-MAY-2009 23:59

Client ID: PCB 1254

Sample Info: 1685-121-5.0 PCB 1254

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0272

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052213b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1248
Inj Date : 22-MAY-2009 23:33
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1248
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1248NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 28 pcb1248				1715292178	5.00000	5.00
29 pcb1248-1	8.365	8.485	(0.532)	423689854	5.00000	5.00
30 pcb1248-2	9.271	9.295	(0.590)	327911370	5.00000	5.00
31 pcb1248-3	9.417	9.417	(0.599)	700493056	5.00000	5.00
32 pcb1248-4	10.237	10.255	(0.651)	263197898	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.727	15.725	(1.000)	6522634623	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052213b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1248
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6522634623	5.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052213b.d

Date : 22-MAY-2009 23:33

Client ID: PCB 1248

Sample Info: 1685-121-5.0 PCB 1248

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0275

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052212b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1232
Inj Date : 22-MAY-2009 23:06
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1232
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1232NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 18 pcb1232				637480447	5.00000	5.00
19 pcb1232-1	7.288	7.394	(0.463)	145074950	5.00000	5.00
20 pcb1232-2	8.069	8.069	(0.513)	205917937	5.00000	5.00
21 pcb1232-3	8.254	8.254	(0.525)	139150535	5.00000	5.00
22 pcb1232-4	8.302	8.302	(0.528)	147337025	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.726	15.725	(1.000)	6594321184	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052212b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1232
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6594321184	6.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052212b.d

Date : 22-MAY-2009 23:06

Client ID: PCB 1232

Sample Info: 1685-121-5.0 PCB 1232

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0278

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052211b.d
Lab Smp Id: 1685-121-5.0 Client Smp ID: PCB 1221
Inj Date : 22-MAY-2009 22:39
Operator : rn Inst ID: gcp.i
Smp Info : 1685-121-5.0 PCB 1221
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: 1221NS.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
M 13 pcb1221				947323288	5.00000	5.00
14 pcb1221-1	5.054	5.127	(0.321)	140824400	5.00000	5.00
15 pcb1221-2	6.105	6.191	(0.388)	210754016	5.00000	5.00
16 pcb1221-3	6.332	6.348	(0.403)	110226929	5.00000	5.00
17 pcb1221-4	6.398	6.488	(0.407)	485517943	5.00000	5.00
* 39 Decachlorodiphenyl Ether	15.727	15.725	(1.000)	6380074891	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052211b.d
Lab Smp Id: 1685-121-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26
Client Smp ID: PCB 1221
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6380074891	2.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0281

Data File: /chem/gcp.i/22May2009.b/P052211b.d
Date : 22-MAY-2009 22:39
Client ID: PCB 1221
Sample Info: 1685-121-5.0 PCB 1221

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052205b.d
Lab Smp Id: 1685-137-5.0
Inj Date : 22-MAY-2009 19:59
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-5.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.CDF
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	4355015098	1.00000	1.03
M 3 pcb1016/1242				2964881217	5.00000	5.12
4 pcb1016/1242-1	6.939	6.940	(0.441)	773824679	5.00000	5.19
5 pcb1016/1242-2	7.722	7.721	(0.491)	976359954	5.00000	5.12
6 pcb1016/1242-3	7.946	7.945	(0.505)	701787152	5.00000	5.09
7 pcb1016/1242-4	8.654	8.655	(0.550)	512909432	5.00000	5.08
M 8 pcb1260				5506374392	5.00000	5.15
9 pcb1260-1	10.709	10.710	(0.681)	1074372980	5.00000	5.16
10 pcb1260-2	11.133	11.133	(0.708)	1629373246	5.00000	5.15
11 pcb1260-3	12.075	12.077	(0.768)	890865907	5.00000	5.12
12 pcb1260-4	12.504	12.505	(0.795)	1911762259	5.00000	5.15
$ 38 DCB	14.398	14.400	(0.916)	3377158256	1.00000	1.02
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6087587940	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052205b.d
Lab Smp Id: 1685-137-5.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 23:59

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6087587940	3043793970	12175175881	6087587940	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.72	15.22	16.22	15.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0284

Data File: /chem/gcp.i/22May2009.b/P052205b.d
Date : 22-MAY-2009 19:59
Client ID:
Sample Info: 1685-137-5.0

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052206b.d
Lab Smp Id: 1685-137-8.0
Inj Date : 22-MAY-2009 20:26
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-8.0
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:26 Cal File: P052206b.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.846	5.846	(0.372)	6786897116	1.60000	1.57
M 3 pcb1016/1242				4598335068	8.00000	7.79
4 pcb1016/1242-1	6.940	6.940	(0.441)	1180015836	8.00000	7.76
5 pcb1016/1242-2	7.721	7.721	(0.491)	1532795221	8.00000	7.88
6 pcb1016/1242-3	7.945	7.945	(0.505)	1085853239	8.00000	7.72
7 pcb1016/1242-4	8.655	8.655	(0.550)	799670772	8.00000	7.77
M 8 pcb1260				8415902970	8.00000	7.71
9 pcb1260-1	10.710	10.710	(0.681)	1618933012	8.00000	7.62
10 pcb1260-2	11.133	11.133	(0.708)	2475314443	8.00000	7.67
11 pcb1260-3	12.077	12.077	(0.768)	1360692137	8.00000	7.67
12 pcb1260-4	12.505	12.505	(0.795)	2960963378	8.00000	7.82
$ 38 DCB	14.400	14.400	(0.916)	5227002032	1.60000	1.55
* 39 Decachlorodiphenyl Ether	15.725	15.725	(1.000)	6209085211	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052206b.d
Lab Smp Id: 1685-137-8.0
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6209085211	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052206b.d

Date : 22-MAY-2009 20:26

Client ID:

Sample Info: 1685-137-8.0

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0287

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052207b.d
Lab Smp Id:
Inj Date : 22-MAY-2009 20:53
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-10
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 20:53 Cal File: P052207b.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	8663720233	2.00000	1.99
M 3 pcb1016/1242				5785850656	10.0000	9.73
4 pcb1016/1242-1	6.940	6.940	(0.441)	1470014364	10.0000	9.59
5 pcb1016/1242-2	7.720	7.721	(0.491)	1940209535	10.0000	9.90
6 pcb1016/1242-3	7.944	7.945	(0.505)	1363926433	10.0000	9.62
7 pcb1016/1242-4	8.654	8.655	(0.550)	1011700324	10.0000	9.76
M 8 pcb1260				10684131643	10.0000	9.72
9 pcb1260-1	10.710	10.710	(0.681)	2039266507	10.0000	9.52
10 pcb1260-2	11.133	11.133	(0.708)	3147090602	10.0000	9.68
11 pcb1260-3	12.076	12.077	(0.768)	1727028028	10.0000	9.66
12 pcb1260-4	12.504	12.505	(0.795)	3770746506	10.0000	9.88
$ 38 DCB	14.399	14.400	(0.916)	6654959184	2.00000	1.96
* 39 Decachlorodiphenyl Ether	15.725	15.725	(1.000)	6256297503	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052207b.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6256297503	0.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052207b.d

Date : 22-MAY-2009 20:53

Client ID:

Sample Info: 1685-137-10

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0290

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052208b.d
Lab Smp Id: 1685-137-12
Inj Date : 22-MAY-2009 21:19
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-12
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:19 Cal File: P052208b.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.845	5.846	(0.372)	10179829291	2.40000	2.41
M 3 pcb1016/1242				6807108544	12.0000	11.8
4 pcb1016/1242-1	6.939	6.940	(0.441)	1729630176	12.0000	11.6
5 pcb1016/1242-2	7.719	7.721	(0.491)	2285114861	12.0000	12.0
6 pcb1016/1242-3	7.943	7.945	(0.505)	1600673108	12.0000	11.6
7 pcb1016/1242-4	8.653	8.655	(0.550)	1191690399	12.0000	11.9
M 8 pcb1260				12610841780	12.0000	11.8
9 pcb1260-1	10.709	10.710	(0.681)	2389888028	12.0000	11.5
10 pcb1260-2	11.132	11.133	(0.708)	3705820834	12.0000	11.8
11 pcb1260-3	12.076	12.077	(0.768)	2042093212	12.0000	11.8
12 pcb1260-4	12.504	12.505	(0.795)	4473039706	12.0000	12.1
$ 38 DCB	14.398	14.400	(0.916)	7905168214	2.40000	2.40
* 39 Decachlorodiphenyl Ether	15.724	15.725	(1.000)	6059616165	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052208b.d
Lab Smp Id: 1685-137-12
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6059616165	-2.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.72	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052208b.d

Date : 22-MAY-2009 21:19

Client ID:

Sample Info: 1685-137-12

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0293

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/22May2009.b/P052209b.d
Lab Smp Id: 1685-137-15
Inj Date : 22-MAY-2009 21:46
Operator : rn Inst ID: gcp.i
Smp Info : 1685-137-15
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Meth Date : 01-Jun-2009 11:33 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 21:46 Cal File: P052209b.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.846	5.846	(0.372)	12544560952	3.00000	2.91
M 3 pcb1016/1242				8366705939	15.0000	14.2
4 pcb1016/1242-1	6.939	6.940	(0.441)	2107028249	15.0000	13.9
5 pcb1016/1242-2	7.719	7.721	(0.491)	2819881874	15.0000	14.5
6 pcb1016/1242-3	7.943	7.945	(0.505)	1972015274	15.0000	14.0
7 pcb1016/1242-4	8.654	8.655	(0.550)	1467780542	15.0000	14.3
M 8 pcb1260				15543310297	15.0000	14.3
9 pcb1260-1	10.709	10.710	(0.681)	2931495637	15.0000	13.8
10 pcb1260-2	11.132	11.133	(0.708)	4550319841	15.0000	14.1
11 pcb1260-3	12.076	12.077	(0.768)	2529998787	15.0000	14.3
12 pcb1260-4	12.505	12.505	(0.795)	5531496031	15.0000	14.6
$ 38 DCB	14.400	14.400	(0.916)	9724551070	3.00000	2.89
* 39 Decachlorodiphenyl Ether	15.726	15.725	(1.000)	6195939552	2.00000	

Report Date: 01-Jun-2009 11:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P052209b.d
Lab Smp Id: 1685-137-15
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/22May2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 22-MAY-2009
Calibration Time: 20:26

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	6209085211	3104542606	12418170423	6195939552	-0.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.73	15.23	16.23	15.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/22May2009.b/P052209b.d

Date : 22-MAY-2009 21:46

Client ID:

Sample Info: 1685-137-15

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0296

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 17-JUL-2009 18:55
Lab File ID: P071704b.d Init. Cal. Date(s): 19-MAY-2009 19-MAY-2009
Analysis Type: AIR Init. Cal. Times: 17:30 20:37
Lab Sample ID: 1685-135A-0.6 pest Quant Type: ISTD
Method: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m

COMPOUND	RRF / AMOUNT	RF0.600	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 TCMX	1.57624	1.64342	0.010	-4.26227	15.00000	Averaged
8 a-BHC	2.15278	2.29357	0.010	-6.53952	15.00000	Averaged
9 g-BHC	2.01104	2.11517	0.010	-5.17799	15.00000	Averaged
10 b-BHC	0.80831	0.84484	0.010	-4.51979	15.00000	Averaged
11 d-BHC	1.89263	1.77143	0.010	6.40383	15.00000	Averaged
12 Heptachlor	1.85582	1.88687	0.010	-1.67311	15.00000	Averaged
13 Aldrin	1.79703	1.87213	0.010	-4.17904	15.00000	Averaged
14 Heptachlor Epoxide	1.59111	1.64664	0.010	-3.49022	15.00000	Averaged
15 g-Chlordane	1.68041	1.73489	0.010	-3.24226	15.00000	Averaged
16 a-Chlordane	1.61821	1.66283	0.010	-2.75763	15.00000	Averaged
18 Endosulfan I	1.50833	1.49910	0.010	0.61231	15.00000	Averaged
17 DDE	1.48879	1.58600	0.010	-6.52950	15.00000	Averaged
19 Dieldrin	1.62685	1.66000	0.010	-2.03766	15.00000	Averaged
20 Endrin	1.44313	1.43696	0.010	0.42766	15.00000	Averaged
21 DDD	1.27947	1.25516	0.010	1.90004	15.00000	Averaged
22 Endosulfan II	1.36886	1.28107	0.010	6.41361	15.00000	Averaged
23 DDT	1.41489	1.33234	0.010	5.83392	15.00000	Averaged
24 Endrin Aldehyde	1.14935	1.11845	0.010	2.68864	15.00000	Averaged
26 Endosulfan Sulfate	1.26084	1.13966	0.010	9.61094	15.00000	Averaged
25 Methoxychlor	0.63055	0.56053	0.010	11.10475	15.00000	Averaged
27 Endrin Ketone	1.57006	1.50447	0.010	4.17733	15.00000	Averaged
$ 28 DCB	1.25882	1.21083	0.010	3.81240	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.42702
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071704b.d
Lab Smp Id: 1685-135A-0.6 pest Client Smp ID: CCV
Inj Date : 17-JUL-2009 18:55
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	5.828	5.828	(0.371)	8646541730	1.20000	1.251
8 a-BHC	6.701	6.701	(0.427)	6033564912	0.60000	0.6392
9 g-BHC	7.222	7.222	(0.460)	5564276855	0.60000	0.6311
10 b-BHC	7.365	7.365	(0.469)	2222487545	0.60000	0.6271
11 d-BHC	7.679	7.679	(0.489)	4660003346	0.60000	0.5616
12 Heptachlor	8.041	8.041	(0.512)	4963702488	0.60000	0.6100
13 Aldrin	8.588	8.588	(0.547)	4924906112	0.60000	0.6251
14 Heptachlor Epoxide	9.670	9.670	(0.616)	4331726976	0.60000	0.6209
15 g-Chlordane	9.881	9.881	(0.629)	4563891104	0.60000	0.6194
16 a-Chlordane	10.102	10.102	(0.644)	4374320002	0.60000	0.6165
18 Endosulfan I	10.332	10.332	(0.658)	3943601579	0.60000	0.5963
17 DDE	10.218	10.218	(0.651)	4172210067	0.60000	0.6392
19 Dieldrin	10.715	10.715	(0.683)	4366865037	0.60000	0.6122
20 Endrin	11.079	11.079	(0.706)	3780144474	0.60000	0.5974
21 DDD	11.162	11.162	(0.711)	3301893356	0.60000	0.5886
22 Endosulfan II	11.419	11.419	(0.727)	3370033936	0.60000	0.5615
23 DDT	11.577	11.577	(0.738)	3504923984	0.60000	0.5650
24 Endrin Aldehyde	12.029	12.029	(0.766)	2942244480	0.60000	0.5839
26 Endosulfan Sulfate	12.643	12.643	(0.805)	2998054078	0.60000	0.5423
25 Methoxychlor	12.259	12.259	(0.781)	14745587359	6.00000	5.334
27 Endrin Ketone	13.031	13.031	(0.830)	3957731648	0.60000	0.5749

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 28 DCB	14.377	14.377	(0.916)	6370521040	1.20000	1.154
* 29 Decachlorodiphenyl Ether	15.697	15.697	(1.000)	8768828706	2.00000	

Report Date: 20-Jul-2009 08:54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071704b.d
Lab Smp Id: 1685-135A-0.6 pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8768828706	4384414353	17537657412	8768828706	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/17Jul2009.b/P071704b.d

Date : 17-JUL-2009 18:55

Client ID: CCV

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0301

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 17-JUL-2009 18:55
Lab File ID: P071704.d Init. Cal. Date(s): 19-MAY-2009 19-MAY-2009
Analysis Type: AIR Init. Cal. Times: 17:30 20:37
Lab Sample ID: 1685-135A-0.6 pest Quant Type: ISTD
Method: /chem/gcp.i/17Jul2009.b/p0910519.m

COMPOUND	RRF / AMOUNT	RF0.600	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 TCMX	1.93689	1.93461	0.010	0.11774	15.00000	Averaged
8 a-BHC	2.78691	2.89550	0.010	-3.89653	15.00000	Averaged
9 g-BHC	2.59350	2.66503	0.010	-2.75799	15.00000	Averaged
10 b-BHC	1.06860	1.07480	0.010	-0.58069	15.00000	Averaged
11 d-BHC	2.40790	2.25477	0.010	6.35956	15.00000	Averaged
12 Heptachlor	2.36193	2.39605	0.010	-1.44467	15.00000	Averaged
13 Aldrin	2.30099	2.32674	0.010	-1.11879	15.00000	Averaged
14 Heptachlor Epoxide	1.98166	1.98853	0.010	-0.34667	15.00000	Averaged
15 g-Chlordane	2.08862	2.07915	0.010	0.45358	15.00000	Averaged
16 a-Chlordane	1.97230	1.95583	0.010	0.83538	15.00000	Averaged
17 Endosulfan I	1.77828	1.72194	0.010	3.16785	15.00000	Averaged
18 DDE	1.89126	1.89785	0.010	-0.34828	15.00000	Averaged
19 Dieldrin	1.94026	1.93900	0.010	0.06504	15.00000	Averaged
20 Endrin	1.71932	1.70758	0.010	0.68283	15.00000	Averaged
21 DDD	1.50014	1.54619	0.010	-3.07017	15.00000	Averaged
22 Endosulfan II	1.59040	1.46778	0.010	7.70994	15.00000	Averaged
23 DDT	1.58418	1.46970	0.010	7.22651	15.00000	Averaged
24 Endrin Aldehyde	1.25367	1.23648	0.010	1.37123	15.00000	Averaged
25 Endosulfan Sulfate	1.40265	1.30930	0.010	6.65525	15.00000	Averaged
26 Methoxychlor	0.58781	0.56649	0.010	3.62701	15.00000	Averaged
27 Endrin Ketone	1.57764	1.54169	0.010	2.27815	15.00000	Averaged
$ 28 DCB	1.22197	1.16241	0.010	4.87367	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.68125
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071704.d
Lab Smp Id: 1685-135A-0.6 pest Client Smp ID: CCV
Inj Date : 17-JUL-2009 18:55
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/p0910519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 2 TCMX	6.008	6.008	(0.352)	21679763537	1.20000	1.198
8 a-BHC	6.997	6.997	(0.410)	16223887839	0.60000	0.6234
9 g-BHC	7.608	7.608	(0.446)	14932527728	0.60000	0.6165
10 b-BHC	7.751	7.751	(0.454)	6022274141	0.60000	0.6035
11 d-BHC	8.284	8.284	(0.485)	12633759804	0.60000	0.5618
12 Heptachlor	8.396	8.396	(0.492)	13425412613	0.60000	0.6087
13 Aldrin	9.000	9.000	(0.527)	13037030314	0.60000	0.6067
14 Heptachlor Epoxide	10.012	10.012	(0.587)	11142028899	0.60000	0.6021
15 g-Chlordane	10.326	10.326	(0.605)	11649746709	0.60000	0.5973
16 a-Chlordane	10.566	10.566	(0.619)	10958765969	0.60000	0.5950
17 Endosulfan I	10.663	10.663	(0.625)	9648292560	0.60000	0.5810
18 DDE	10.834	10.834	(0.635)	10633887324	0.60000	0.6021
19 Dieldrin	11.098	11.098	(0.650)	10864467144	0.60000	0.5996
20 Endrin	11.568	11.568	(0.678)	9567820566	0.60000	0.5959
21 DDD	11.725	11.725	(0.687)	8663538868	0.60000	0.6184
22 Endosulfan II	11.884	11.884	(0.696)	8224184681	0.60000	0.5537
23 DDT	12.180	12.180	(0.714)	8234945610	0.60000	0.5566
24 Endrin Aldehyde	12.373	12.373	(0.725)	6928154556	0.60000	0.5918
25 Endosulfan Sulfate	12.764	12.764	(0.748)	7336207006	0.60000	0.5601
26 Methoxychlor	13.132	13.132	(0.769)	31741407214	6.00000	5.782
27 Endrin Ketone	13.502	13.502	(0.791)	8638328550	0.60000	0.5863

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ug)
$ 28 DCB	15.398	15.398	(0.902)	13026311163	1.20000	1.142
* 29 Decachlorodiphenyl Ether	17.069	17.069	(1.000)	18677125180	2.00000	

Report Date: 20-Jul-2009 08:54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071704.d
Lab Smp Id: 1685-135A-0.6 pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	18677125180	9338562590	37354250361	18677125180	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.07	16.57	17.57	17.07	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/17Jul2009.b/P071704.d

Date : 17-JUL-2009 18:55

Client ID: CCV

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0306

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 17-JUL-2009 19:41
Lab File ID: P071705b.d Init. Cal. Date(s): 22-MAY-2009 22-MAY-2009
Analysis Type: AIR Init. Cal. Times: 19:06 23:59
Lab Sample ID: 1685-137-3 pcb Quant Type: ISTD
Method: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m

COMPOUND	RRF / AMOUNT	RF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 TCMX	1.39223	1.37012	0.010	1.58803	15.00000	Averaged
M 3 pcb1016/1242	0.19014	0.18931	0.010	0.43828	15.00000	Averaged
4 pcb1016/1242-1	0.04901	0.04951	0.010	-1.02086	15.00000	Averaged
5 pcb1016/1242-2	0.06266	0.06264	0.010	0.02249	15.00000	Averaged
6 pcb1016/1242-3	0.04532	0.04480	0.010	1.14343	15.00000	Averaged
7 pcb1016/1242-4	0.03315	0.03235	0.010	2.41705	15.00000	Averaged
M 8 pcb1260	0.35151	0.33316	0.010	5.22032	15.00000	Averaged
9 pcb1260-1	0.06846	0.06626	0.010	3.21523	15.00000	Averaged
10 pcb1260-2	0.10395	0.10009	0.010	3.71284	15.00000	Averaged
11 pcb1260-3	0.05717	0.05339	0.010	6.61886	15.00000	Averaged
12 pcb1260-4	0.12193	0.11343	0.010	6.97549	15.00000	Averaged
$ 38 DCB	1.08460	0.97841	0.010	9.79001	15.00000	Averaged

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/17Jul2009.b/P071705b.d
Lab Smp Id: 1685-137-3 pcb Client Smp ID: CCV
Inj Date : 17-JUL-2009 19:41
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	5.821	5.821	(0.371)	3412053978	0.60000	0.590
M 3 pcb1016/1242				2357192150	3.00000	2.99
4 pcb1016/1242-1	6.914	6.914	(0.440)	616454080	3.00000	3.03
5 pcb1016/1242-2	7.696	7.696	(0.490)	780021885	3.00000	3.00
6 pcb1016/1242-3	7.919	7.919	(0.504)	557877936	3.00000	2.96
7 pcb1016/1242-4	8.626	8.626	(0.550)	402838249	3.00000	2.93
M 8 pcb1260				4148400829	3.00000	2.84
9 pcb1260-1	10.687	10.687	(0.681)	825008211	3.00000	2.90
10 pcb1260-2	11.112	11.112	(0.708)	1246287501	3.00000	2.89
11 pcb1260-3	12.056	12.056	(0.768)	664739377	3.00000	2.80
12 pcb1260-4	12.486	12.486	(0.795)	1412365740	3.00000	2.79
$ 38 DCB	14.378	14.378	(0.916)	2436567040	0.60000	0.541
* 39 Decachlorodiphenyl Ether	15.697	15.697	(1.000)	8301083065	2.00000	

Report Date: 17-Jul-2009 13:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071705b.d
Lab Smp Id: 1685-137-3 pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8301083065	4150541532	16602166129	8301083065	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/17Jul2009.b/P071705b.d

Date : 17-JUL-2009 19:41

Client ID: CCV

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0310

Report Date: 17-Jul-2009 13:30

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcp.i Injection Date: 17-JUL-2009 19:41
Lab File ID: P071705.d Init. Cal. Date(s): 22-MAY-2009 22-MAY-2009
Analysis Type: AIR Init. Cal. Times: 19:06 23:59
Lab Sample ID: 1685-137-3 pcb Quant Type: ISTD
Method: /chem/gcp.i/17Jul2009.b/p09p0522.m

COMPOUND	RRF / AMOUNT	RF3	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 2 TCMX	1.55926	1.67372	0.010	-7.34061	15.00000	Averaged
M 3 pcb1016/1242	0.22650	0.23276	0.010	-2.76266	15.00000	Averaged
4 pcb1016/1242-1	0.03648	0.03822	0.010	-4.77626	15.00000	Averaged
5 pcb1016/1242-2	0.09165	0.09209	0.010	-0.48795	15.00000	Averaged
6 pcb1016/1242-3	0.05699	0.06185	0.010	-8.51627	15.00000	Averaged
7 pcb1016/1242-4	0.04139	0.04060	0.010	1.89832	15.00000	Averaged
M 8 pcb1260	0.36669	0.34765	0.010	5.19188	15.00000	Averaged
9 pcb1260-1	0.07592	0.07288	0.010	4.01605	15.00000	Averaged
10 pcb1260-2	0.09265	0.09043	0.010	2.39205	15.00000	Averaged
11 pcb1260-3	0.06766	0.06275	0.010	7.26700	15.00000	Averaged
12 pcb1260-4	0.13045	0.12159	0.010	6.78849	15.00000	Averaged
$ 38 DCB	1.04743	0.96098	0.010	8.25338	15.00000	Averaged

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/17Jul2009.b/P071705.d
Lab Smp Id: 1685-137-3 pcb Client Smp ID: CCV
Inj Date : 17-JUL-2009 19:41
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 2 TCMX	6.024	6.024	(0.352)	8758134072	0.60000	0.644
M 3 pcb1016/1242				6089914528	3.00000	3.08
4 pcb1016/1242-1	7.435	7.435	(0.435)	1000028558	3.00000	3.14
5 pcb1016/1242-2	8.237	8.237	(0.482)	2409498664	3.00000	3.01
6 pcb1016/1242-3	8.472	8.472	(0.496)	1618125016	3.00000	3.26
7 pcb1016/1242-4	9.301	9.301	(0.544)	1062262290	3.00000	2.94
M 8 pcb1260				9095765091	3.00000	2.84
9 pcb1260-1	11.362	11.362	(0.665)	1906694364	3.00000	2.88
10 pcb1260-2	11.670	11.670	(0.683)	2366112532	3.00000	2.93
11 pcb1260-3	12.740	12.740	(0.746)	1641676940	3.00000	2.78
12 pcb1260-4	13.077	13.077	(0.765)	3181281254	3.00000	2.80
$ 38 DCB	15.413	15.413	(0.902)	5028549328	0.60000	0.550
* 39 Decachlorodiphenyl Ether	17.089	17.089	(1.000)	17442469517	2.00000	

Report Date: 17-Jul-2009 13:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071705.d
Lab Smp Id: 1685-137-3 pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17442469517	8721234758	34884939034	17442469517	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.09	16.59	17.59	17.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0314

Data File: /chem/gcp.i/17Jul2009.b/P071705.d
Date : 17-JUL-2009 19:41
Client ID: CCV
Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1685-137-3 pcb
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: VOA
Data Type: GC DATA
Misc Info: None

Client SDG: 17Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) uG	Q
x9999-9999-098	pcb1016/1242	2.99	
----------	pcb1016/1242-1	3.02	
----------	pcb1016/1242-2	3.02	
----------	pcb1016/1242-3	2.96	
----------	pcb1016/1242-4	2.94	
x11096-82-5	pcb1260	2.80	
----------	pcb1260-1	2.88	
----------	pcb1260-2	2.85	
----------	pcb1260-3	2.76	
----------	pcb1260-4	2.72	
x877-09-8	TCMX	0.592	
x2051-24-3	DCB	0.532	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/17Jul2009.b/P071716b.d
Lab Smp Id: 1685-137-3 pcb Client Smp ID: CCV
Inj Date : 18-JUL-2009 01:20
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	5.835	5.821	(0.372)	3682794333	0.59194	0.592
M 3 pcb1016/1242				2542872006	2.99270	2.99
4 pcb1016/1242-1	6.928	6.914	(0.441)	662600289	3.02554	3.02
5 pcb1016/1242-2	7.710	7.696	(0.491)	844567695	3.01628	3.02
6 pcb1016/1242-3	7.933	7.919	(0.505)	599834151	2.96168	2.96
7 pcb1016/1242-4	8.640	8.626	(0.550)	435869868	2.94199	2.94
M 8 pcb1260				4393480246	2.79695	2.80
9 pcb1260-1	10.697	10.687	(0.681)	879666342	2.87546	2.88
10 pcb1260-2	11.121	11.112	(0.708)	1326031179	2.85460	2.85
11 pcb1260-3	12.064	12.056	(0.768)	704023663	2.75573	2.76
12 pcb1260-4	12.493	12.486	(0.795)	1483759060	2.72304	2.72
$ 38 DCB	14.384	14.378	(0.916)	2576179613	0.53152	0.532
* 39 Decachlorodiphenyl Ether	15.705	15.697	(1.000)	8937474385	2.00000	

Report Date: 22-Jul-2009 17:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071716b.d
Lab Smp Id: 1685-137-3 pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8301083065	4150541532	16602166129	8937474385	7.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:45

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-137-3 pcb
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: METHSPIKE
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.592	98.66	85-115
M 3 pcb1016/1242	3.00	2.99	99.76	85-115
4 pcb1016/1242-1	3.00	3.02	100.85	85-115
5 pcb1016/1242-2	3.00	3.02	100.54	85-115
6 pcb1016/1242-3	3.00	2.96	98.72	85-115
7 pcb1016/1242-4	3.00	2.94	98.07	85-115
M 8 pcb1260	3.00	2.80	93.23	85-115
9 pcb1260-1	3.00	2.88	95.85	85-115
10 pcb1260-2	3.00	2.85	95.15	85-115
11 pcb1260-3	3.00	2.76	91.86	85-115
12 pcb1260-4	3.00	2.72	90.77	85-115
$ 38 DCB	0.600	0.532	88.59	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.592	98.66	60-120
$ 38 DCB	0.600	0.532	88.59	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071716b.d

Date : 18-JUL-2009 01:20

Client ID: CCV

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0319

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 1685-137-3 pcb
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type: VOA
Data Type: GC DATA
Misc Info: None

Client SDG: 17Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) uG	Q
9999-9999-098	pcb1016/1242	3.03	
----------	pcb1016/1242-1	3.12	
----------	pcb1016/1242-2	2.96	
----------	pcb1016/1242-3	3.18	
----------	pcb1016/1242-4	2.87	
11096-82-5	pcb1260	2.70	
----------	pcb1260-1	2.75	
----------	pcb1260-2	2.74	
----------	pcb1260-3	2.66	
----------	pcb1260-4	2.68	
877-09-8	TCMX	0.618	
2051-24-3	DCB	0.538	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/17Jul2009.b/P071716.d
Lab Smp Id: 1685-137-3 pcb Client Smp ID: CCV
Inj Date : 18-JUL-2009 01:20
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	6.013	6.024	(0.352)	8721119585	0.61806	0.618
M 3 pcb1016/1242				6206063929	3.02774	3.03
4 pcb1016/1242-1	7.422	7.435	(0.435)	1030946139	3.12295	3.12
5 pcb1016/1242-2	8.222	8.237	(0.481)	2457546923	2.96325	2.96
6 pcb1016/1242-3	8.457	8.472	(0.495)	1642545787	3.18478	3.18
7 pcb1016/1242-4	9.288	9.301	(0.544)	1075025079	2.87040	2.87
M 8 pcb1260				8978067584	2.70563	2.70
9 pcb1260-1	11.351	11.362	(0.665)	1891160642	2.75248	2.75
10 pcb1260-2	11.659	11.670	(0.683)	2298875444	2.74185	2.74
11 pcb1260-3	12.731	12.740	(0.746)	1627966071	2.65871	2.66
12 pcb1260-4	13.068	13.077	(0.765)	3160065427	2.67696	2.68
$ 38 DCB	15.405	15.413	(0.902)	5102583494	0.53833	0.538
* 39 Decachlorodiphenyl Ether	17.078	17.089	(1.000)	18098827840	2.00000	

Report Date: 22-Jul-2009 17:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071716.d
Lab Smp Id: 1685-137-3 pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17442469517	8721234758	34884939034	18098827840	3.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.09	16.59	17.59	17.08	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 22-Jul-2009 17:45

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1685-137-3 pcb
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: METHSPIKE
SpikeList File: CCV10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.618	103.01	85-115
M 3 pcb1016/1242	3.00	3.03	100.92	85-115
4 pcb1016/1242-1	3.00	3.12	104.10	85-115
5 pcb1016/1242-2	3.00	2.96	98.77	85-115
6 pcb1016/1242-3	3.00	3.18	106.16	85-115
7 pcb1016/1242-4	3.00	2.87	95.68	85-115
M 8 pcb1260	3.00	2.70	90.19	85-115
9 pcb1260-1	3.00	2.75	91.75	85-115
10 pcb1260-2	3.00	2.74	91.40	85-115
11 pcb1260-3	3.00	2.66	88.62	85-115
12 pcb1260-4	3.00	2.68	89.23	85-115
$ 38 DCB	0.600	0.538	89.72	85-115

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.618	103.01	60-120
$ 38 DCB	0.600	0.538	89.72	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071716.d

Date : 18-JUL-2009 01:20

Client ID: CCV

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0324

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 0685-135A-0.6 pest
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type:
Data Type: GC DATA
Misc Info: None

Client SDG: 17Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
x319-84-6	a-BHC	0.6430	E
x58-89-9	g-BHC	0.6326	
x319-85-7	b-BHC	0.6237	E
x319-86-8	d-BHC	0.5884	E
x76-44-8	Heptachlor	0.6098	
x309-00-2	Aldrin	0.6193	
x1024-57-3	Heptachlor Epoxide	0.6112	E
x5103-74-2	g-Chlordane	0.6104	E
x5103-71-9	a-Chlordane	0.6059	E
x959-98-8	Endosulfan I	0.5841	E
x72-55-9	DDE	0.6349	E
x60-57-1	Dieldrin	0.6075	
x72-20-8	Endrin	0.6104	
x72-54-8	DDD	0.6336	E
x33213-65-9	Endosulfan II	0.5560	E
x50-29-3	DDT	0.5605	
x7421-93-4	Endrin Aldehyde	0.5764	E
x1031-07-8	Endosulfan Sulfate	0.5621	E
x72-43-5	Methoxychlor	5.336	E
x53494-70-5	Endrin Ketone	0.5653	E
x877-09-8	TCMX	1.264	
x2051-24-3	DCB	1.139	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071717b.d
Lab Smp Id: 0685-135A-0.6 pest Client Smp ID: CCV
Inj Date : 18-JUL-2009 01:46
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	5.833	5.828	(0.371)	9411306336	1.26373	1.264
8 a-BHC	6.707	6.701	(0.427)	6540594624	0.64305	0.6430
9 g-BHC	7.229	7.222	(0.460)	6010223010	0.63255	0.6326
10 b-BHC	7.371	7.365	(0.469)	2381951033	0.62371	0.6237
11 d-BHC	7.685	7.679	(0.489)	5261227474	0.58837	0.5884
12 Heptachlor	8.049	8.041	(0.513)	5347215214	0.60984	0.6098
13 Aldrin	8.595	8.588	(0.547)	5257900224	0.61928	0.6193
14 Heptachlor Epoxide	9.677	9.670	(0.616)	4594911584	0.61123	0.6112
15 g-Chlordane	9.888	9.881	(0.630)	4846004128	0.61037	0.6104
16 a-Chlordane	10.108	10.102	(0.644)	4632549183	0.60592	0.6059
18 Endosulfan I	10.339	10.332	(0.658)	4162290674	0.58407	0.5841
17 DDE	10.225	10.218	(0.651)	4466118086	0.63493	0.6349
19 Dieldrin	10.722	10.715	(0.683)	4669479443	0.60751	0.6075
20 Endrin	11.085	11.079	(0.706)	4161909431	0.61040	0.6104
21 DDD	11.168	11.162	(0.711)	3829883025	0.63355	0.6336
22 Endosulfan II	11.426	11.419	(0.728)	3596217683	0.55605	0.5560
23 DDT	11.583	11.577	(0.738)	3746609188	0.56046	0.5605
24 Endrin Aldehyde	12.036	12.029	(0.766)	3130016960	0.57640	0.5764
26 Endosulfan Sulfate	12.649	12.643	(0.805)	3348580238	0.56212	0.5621
25 Methoxychlor	12.264	12.259	(0.781)	15895703066	5.33564	5.336
27 Endrin Ketone	13.036	13.031	(0.830)	4193293504	0.56529	0.5653

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	14.383	14.377	(0.916)	6773371350	1.13886	1.139
* 29 Decachlorodiphenyl Ether	15.704	15.697	(1.000)	9449354287	2.00000	

Report Date: 20-Jul-2009 08:56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071717b.d
Lab Smp Id: 0685-135A-0.6 pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8768828706	4384414353	17537657412	9449354287	7.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-Jul-2009 08:56

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0685-135A-0.6 pest
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: METHSPIKE
SpikeList File: CCV-1.spk
Quant Type: ISTD
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.200	1.264	105.31	85-115
8 a-BHC	0.6000	0.6430	107.17	85-115
10 b-BHC	0.6000	0.6237	103.95	85-115
9 g-BHC	0.6000	0.6326	105.43	85-115
11 d-BHC	0.6000	0.5884	98.06	85-115
12 Heptachlor	0.6000	0.6098	101.64	85-115
13 Aldrin	0.6000	0.6193	103.21	85-115
14 Heptachlor Epoxide	0.6000	0.6112	101.87	85-115
18 Endosulfan I	0.6000	0.5841	97.34	85-115
17 DDE	0.6000	0.6349	105.82	85-115
19 Dieldrin	0.6000	0.6075	101.25	85-115
20 Endrin	0.6000	0.6104	101.73	85-115
22 Endosulfan II	0.6000	0.5560	92.68	85-115
21 DDD	0.6000	0.6336	105.59	85-115
24 Endrin Aldehyde	0.6000	0.5764	96.07	85-115
26 Endosulfan Sulfate	0.6000	0.5621	93.69	85-115
23 DDT	0.6000	0.5605	93.41	85-115
27 Endrin Ketone	0.6000	0.5653	94.21	85-115
16 a-Chlordane	0.6000	0.6059	100.99	85-115
15 g-Chlordane	0.6000	0.6104	101.73	85-115
25 Methoxychlor	6.000	5.336	88.93	85-115
168 Mirex	0.6000	0.000	*	85-115
$ 28 DCB	1.200	1.139	94.90	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.400	1.264	105.31	60-120
$ 28 DCB	2.200	1.139	94.90	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071717b.d

Date : 18-JUL-2009 01:46

Client ID: CCV

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0331

Air Toxics Ltd.

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 0685-135A-0.6 pest
Sample Location:
Sample Date:
Sample Matrix: AIR
Analysis Type:
Data Type: GC DATA
Misc Info: None

Client SDG: 17Jul2009
Client Smp ID: CCV
Sample Point:
Date Received:
Quant Type: ISTD
Level: LOW
Operator: rn

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug	Q
319-84-6	a-BHC	0.6132	E
58-89-9	g-BHC	0.6063	
319-85-7	b-BHC	0.5822	E
319-86-8	d-BHC	0.5756	E
76-44-8	Heptachlor	0.5953	
309-00-2	Aldrin	0.5915	
1024-57-3	Heptachlor Epoxide	0.5854	E
5103-74-2	g-Chlordane	0.5784	E
5103-71-9	a-Chlordane	0.5748	E
959-98-8	Endosulfan I	0.5647	E
72-55-9	DDE	0.5858	E
60-57-1	Dieldrin	0.5833	
72-20-8	Endrin	0.5858	
72-54-8	DDD	0.6134	E
33213-65-9	Endosulfan II	0.5380	E
50-29-3	DDT	0.5386	
7421-93-4	Endrin Aldehyde	0.5757	E
1031-07-8	Endosulfan Sulfate	0.5640	E
72-43-5	Methoxychlor	5.743	E
53494-70-5	Endrin Ketone	0.5658	E
877-09-8	TCMX	1.182	
2051-24-3	DCB	1.129	

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071717.d
Lab Smp Id: 0685-135A-0.6 pest Client Smp ID: CCV
Inj Date : 18-JUL-2009 01:46
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/p0910519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: pestCCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	6.011	6.008	(0.352)	21822221564	1.18233	1.182
8 a-BHC	7.000	6.997	(0.410)	16286078753	0.61325	0.6132
9 g-BHC	7.611	7.608	(0.446)	14984443405	0.60631	0.6063
10 b-BHC	7.755	7.751	(0.454)	5928697244	0.58222	0.5822
11 d-BHC	8.288	8.284	(0.485)	13208083588	0.57563	0.5756
12 Heptachlor	8.400	8.396	(0.492)	13398757788	0.59531	0.5953
13 Aldrin	9.004	9.000	(0.527)	12969785550	0.59151	0.5915
14 Heptachlor Epoxide	10.016	10.012	(0.587)	11054635441	0.58541	0.5854
15 g-Chlordane	10.329	10.326	(0.605)	11511782030	0.57840	0.5784
16 a-Chlordane	10.569	10.566	(0.619)	10803793232	0.57484	0.5748
17 Endosulfan I	10.667	10.663	(0.625)	9568671773	0.56467	0.5647
18 DDE	10.837	10.834	(0.635)	10558343079	0.58585	0.5858
19 Dieldrin	11.101	11.098	(0.650)	10784007211	0.58326	0.5833
20 Endrin	11.571	11.568	(0.678)	9597946538	0.58582	0.5858
21 DDD	11.728	11.725	(0.687)	8768145745	0.61337	0.6134
22 Endosulfan II	11.888	11.884	(0.696)	8153514108	0.53800	0.5380
23 DDT	12.183	12.180	(0.713)	8130001535	0.53855	0.5386
24 Endrin Aldehyde	12.377	12.373	(0.725)	6877156047	0.57566	0.5757
25 Endosulfan Sulfate	12.768	12.764	(0.748)	7538813795	0.56402	0.5640
26 Methoxychlor	13.135	13.132	(0.769)	32171473266	5.74348	5.743
27 Endrin Ketone	13.506	13.502	(0.791)	8505874899	0.56579	0.5658

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	15.403	15.398	(0.902)	13149984800	1.12930	1.129
* 29 Decachlorodiphenyl Ether	17.076	17.069	(1.000)	19058401311	2.00000	

Report Date: 20-Jul-2009 08:56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071717.d
Lab Smp Id: 0685-135A-0.6 pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	18677125180	9338562590	37354250361	19058401311	2.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.07	16.57	17.57	17.08	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-Jul-2009 08:56

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0685-135A-0.6 pest
Client Smp ID: CCV
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: METHSPIKE
SpikeList File: CCV-1.spk
Quant Type: ISTD
Sublist File: pestCCV.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.200	1.182	98.53	85-115
8 a-BHC	0.6000	0.6132	102.21	85-115
10 b-BHC	0.6000	0.5822	97.04	85-115
9 g-BHC	0.6000	0.6063	101.05	85-115
11 d-BHC	0.6000	0.5756	95.94	85-115
12 Heptachlor	0.6000	0.5953	99.22	85-115
13 Aldrin	0.6000	0.5915	98.58	85-115
14 Heptachlor Epoxide	0.6000	0.5854	97.57	85-115
17 Endosulfan I	0.6000	0.5647	94.11	85-115
18 DDE	0.6000	0.5858	97.64	85-115
19 Dieldrin	0.6000	0.5833	97.21	85-115
20 Endrin	0.6000	0.5858	97.64	85-115
22 Endosulfan II	0.6000	0.5380	89.67	85-115
21 DDD	0.6000	0.6134	102.23	85-115
24 Endrin Aldehyde	0.6000	0.5757	95.94	85-115
25 Endosulfan Sulfate	0.6000	0.5640	94.00	85-115
23 DDT	0.6000	0.5386	89.76	85-115
27 Endrin Ketone	0.6000	0.5658	94.30	85-115
16 a-Chlordane	0.6000	0.5748	95.81	85-115
15 g-Chlordane	0.6000	0.5784	96.40	85-115
26 Methoxychlor	6.000	5.743	95.72	85-115
169 Mirex	0.6000	0.000	*	85-115
$ 28 DCB	1.200	1.129	94.11	85-115

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	0.6000	1.182	98.53	60-120
$ 28 DCB	0.6000	1.129	94.11	60-120

0338

Data File: /chem/gcp.i/17Jul2009.b/P071717.d
Date : 18-JUL-2009 01:46
Client ID: CCV
Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn
Column diameter: 2.00

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907252A-06A

MODIFIED EPA METHOD TO-4A GC/ECD

File Name:	**P071715**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 05:53 PM**
		Date of Extraction: 7/16/09

Compound	%Recovery
Aldrin	83
alpha-BHC	80
beta-BHC	73
delta-BHC	82
gamma-BHC (Lindane)	76
alpha-Chlordane	83
gamma-Chlordane	85
4,4'-DDD	86
4,4'-DDE	79
4,4'-DDT	77
Dieldrin	83
Endosulfan I	74
Endosulfan II	83
Endosulfan Sulfate	80
Endrin	86
Endrin Aldehyde	67
Endrin Ketone	78
Heptachlor	88
Heptachlor Epoxide	88
4,4'-Methoxychlor	92
Toxaphene	Not Spiked
Aroclor 1016/1242	72
Aroclor-1221	Not Spiked
Aroclor-1232	Not Spiked
Aroclor-1248	Not Spiked
Aroclor-1254	Not Spiked
Aroclor-1260	79

Air Sample Volume(L): 90000

Aroclors are reported from file p071714.d, analyzed on 07/17/2009 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2,4,5,6-Tetrachloro-m-xylene	77	60-120
Decachlorobiphenyl	70	60-120

Report Date: 23-Jul-2009 08:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907252A/253A pest
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-166.spk
Quant Type: ISTD
Sublist File: LCSfull.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3195	79.88	65-125
10 b-BHC	0.4000	0.2920	72.99	65-125
9 g-BHC	0.4000	0.3057	76.43	65-125
11 d-BHC	0.4000	0.3281	82.02	65-125
12 Heptachlor	0.4000	0.3508	87.71	65-125
13 Aldrin	0.4000	0.3331	83.27	65-125
14 Heptachlor Epoxide	0.4000	0.3531	88.27	65-125
17 Endosulfan I	0.4000	0.2944	73.60	65-125
18 DDE	0.8000	0.6297	78.72	65-125
19 Dieldrin	0.8000	0.6672	83.41	65-125
20 Endrin	0.8000	0.6860	85.75	65-125
22 Endosulfan II	0.8000	0.6620	82.75	65-125
21 DDD	0.8000	0.6912	86.41	65-125
24 Endrin Aldehyde	0.8000	0.5362	67.02	20-86
25 Endosulfan Sulfate	0.8000	0.6434	80.42	65-125
23 DDT	0.8000	0.6181	77.26	65-125
27 Endrin Ketone	0.8000	0.6228	77.85	65-125
16 a-Chlordane	0.4000	0.3331	83.28	65-125
15 g-Chlordane	0.4000	0.3389	84.72	65-125
26 Methoxychlor	4.000	3.661	91.54	65-125
169 Mirex	2.000	0.1005	5.03*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.400	1.082	77.32	60-120
$ 28 DCB	2.200	1.549	70.43	60-120

Report Date: 17-Jul-2009 18:03

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A/253A pcb
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: LCS10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
M 3 pcb1016/1242	5.00	3.59	71.85	65-125
4 pcb1016/1242-1	5.00	3.34	66.75	65-125
5 pcb1016/1242-2	5.00	3.43	68.57	65-125
6 pcb1016/1242-3	5.00	3.57	71.41	65-125
7 pcb1016/1242-4	5.00	4.21	84.20	65-125
M 8 pcb1260	5.00	3.94	78.82	65-125
9 pcb1260-1	5.00	3.74	74.74	65-125
10 pcb1260-2	5.00	3.61	72.30	65-125
11 pcb1260-3	5.00	4.32	86.36	65-125
12 pcb1260-4	5.00	4.10	81.92	65-125

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.580	96.72	60-120
$ 38 DCB	0.600	0.522	86.94	60-120

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071715.d
Lab Smp Id: 0907252A/253A pest Client Smp ID: LCS
Inj Date : 18-JUL-2009 00:53
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Front column, Rtx-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/p0910519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: LCSfull.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	6.012	6.008	(0.352)	18704972695	1.08245	1.082
8 a-BHC	7.001	6.997	(0.410)	7944911413	0.31954	0.3195
9 g-BHC	7.612	7.608	(0.446)	7074207843	0.30574	0.3057
10 b-BHC	7.756	7.751	(0.454)	2783354405	0.29195	0.2920
11 d-BHC	8.288	8.284	(0.485)	7047694058	0.32807	0.3281
12 Heptachlor	8.402	8.396	(0.492)	7393071928	0.35084	0.3508
13 Aldrin	9.006	9.000	(0.527)	6837535371	0.33307	0.3331
14 Heptachlor Epoxide	10.017	10.012	(0.587)	6242303310	0.35308	0.3531
15 g-Chlordane	10.330	10.326	(0.605)	6314694127	0.33888	0.3389
16 a-Chlordane	10.570	10.566	(0.619)	5861941715	0.33314	0.3331
17 Endosulfan I	10.666	10.663	(0.625)	4670913627	0.29441	0.2944
18 DDE	10.837	10.834	(0.635)	10625646046	0.62974	0.6297
19 Dieldrin	11.103	11.098	(0.650)	11550421483	0.66726	0.6672
20 Endrin	11.572	11.568	(0.678)	10522508239	0.68599	0.6860
21 DDD	11.727	11.725	(0.687)	9251428260	0.69125	0.6912
22 Endosulfan II	11.889	11.884	(0.696)	9393540462	0.66203	0.6620
23 DDT	12.184	12.180	(0.713)	8735966486	0.61810	0.6181
24 Endrin Aldehyde	12.378	12.373	(0.725)	5996894037	0.53617	0.5362
25 Endosulfan Sulfate	12.769	12.764	(0.748)	8051204962	0.64338	0.6434
26 Methoxychlor	13.136	13.132	(0.769)	19201546001	3.66145	3.661
27 Endrin Ketone	13.507	13.502	(0.791)	8766204283	0.62282	0.6228

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	15.404	15.398	(0.902)	16892019156	1.54945	1.549
* 29 Decachlorodiphenyl Ether	17.077	17.069	(1.000)	17843242034	2.00000	

Air Toxics Ltd.

PCB analysis

Data file : /chem/gcp.i/17Jul2009.b/P071714.d
Lab Smp Id: 0907252A/253A pcb Client Smp ID: LCS
Inj Date : 18-JUL-2009 00:26
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide II
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 19:06 Cal File: P052203.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *vf/vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	6.011	6.024	(0.352)	7795121053	0.58033	0.580
M 3 pcb1016/1242				7009610608	3.59242	3.59
4 pcb1016/1242-1	7.418	7.435	(0.434)	1048891296	3.33772	3.34
5 pcb1016/1242-2	8.212	8.237	(0.481)	2706752683	3.42851	3.43
6 pcb1016/1242-3	8.448	8.472	(0.495)	1753097804	3.57074	3.57
7 pcb1016/1242-4	9.284	9.301	(0.544)	1500868823	4.20975	4.21
M 8 pcb1260				12449256520	3.94111	3.94
9 pcb1260-1	11.349	11.362	(0.665)	2444262929	3.73710	3.74
10 pcb1260-2	11.655	11.670	(0.683)	2885225460	3.61492	3.61
11 pcb1260-3	12.730	12.740	(0.746)	2516796941	4.31781	4.32
12 pcb1260-4	13.066	13.077	(0.765)	4602971190	4.09614	4.10
$ 38 DCB	15.402	15.413	(0.902)	4706903631	0.52165	0.522
* 39 Decachlorodiphenyl Ether	17.073	17.089	(1.000)	17228999059	2.00000	

Report Date: 23-Jul-2009 08:55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071715.d
Lab Smp Id: 0907252A/253A pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	18677125180	9338562590	37354250361	17843242034	-4.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	17.07	16.57	17.57	17.08	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 17-Jul-2009 18:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071714.d
Lab Smp Id: 0907252A/253A pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17442469517	8721234758	34884939034	17228999059	-1.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	17.09	16.59	17.59	17.07	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/gcp.i/17Jul2009.b/P071715.d
Date : 18-JUL-2009 00:53
Client ID: LCS
Sample Info:
Column phase:

Instrument: gcp.i
Operator: rn
Column diameter: 2.00

Page 1

Data File: /chem/gcp.i/17Jul2009.b/P071714.d

Date : 18-JUL-2009 00:26

Client ID: LCS

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0348

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071715b.d
Lab Smp Id: 0907252A/253A pest Client Smp ID: LCS
Inj Date : 18-JUL-2009 00:53
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Back column, Rtx-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Meth Date : 20-Jul-2009 08:54 lzhang Quant Type: ISTD
Cal Date : 19-MAY-2009 20:37 Cal File: P051912b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: LCSfull.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	FINAL (ug)
$ 2 TCMX	5.833	5.828	(0.371)	7795832191	1.14273	1.143
8 a-BHC	6.707	6.701	(0.427)	3124833418	0.33538	0.3354
9 g-BHC	7.229	7.222	(0.460)	2727681102	0.31338	0.3134
10 b-BHC	7.371	7.365	(0.469)	1134791537	0.32437	0.3244
11 d-BHC	7.684	7.679	(0.489)	2728752136	0.33312	0.3331
12 Heptachlor	8.049	8.041	(0.513)	2835199303	0.35298	0.3530
13 Aldrin	8.596	8.588	(0.547)	2612840912	0.33594	0.3359
14 Heptachlor Epoxide	9.678	9.670	(0.616)	2378361133	0.34537	0.3454
15 g-Chlordane	9.889	9.881	(0.630)	2149541418	0.29555	0.2956
16 a-Chlordane	10.109	10.102	(0.644)	2305394973	0.32917	0.3292
18 Endosulfan I	10.340	10.332	(0.658)	2198375831	0.33675	0.3368
17 DDE	10.224	10.218	(0.651)	4758587435	0.73850	0.7385
19 Dieldrin	10.723	10.715	(0.683)	5009679069	0.71149	0.7115
20 Endrin	11.086	11.079	(0.706)	4367484632	0.69925	0.6992
21 DDD	11.167	11.162	(0.711)	3679035028	0.66437	0.6644
22 Endosulfan II	11.426	11.419	(0.728)	3907096811	0.65948	0.6595
23 DDT	11.583	11.577	(0.738)	4110673845	0.67127	0.6713
24 Endrin Aldehyde	12.036	12.029	(0.766)	2114285733	0.42503	0.4250
26 Endosulfan Sulfate	12.649	12.643	(0.805)	3501021404	0.64156	0.6416
25 Methoxychlor	12.265	12.259	(0.781)	8942226435	3.27665	3.277
27 Endrin Ketone	13.037	13.031	(0.830)	4194695993	0.61729	0.6173

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug)	CONCENTRATIONS FINAL (ug)
$ 28 DCB	14.384	14.377	(0.916)	8609121437	1.58016	1.580
* 29 Decachlorodiphenyl Ether	15.705	15.697	(1.000)	8656147815	2.00000	

Air Toxics Ltd.

PCB Analysis

Data file : /chem/gcp.i/17Jul2009.b/P071714b.d
Lab Smp Id: 0907252A/253A pcb Client Smp ID: LCS
Inj Date : 18-JUL-2009 00:26
Operator : rn Inst ID: gcp.i
Smp Info :
Misc Info : None
Comment : Rtx-CLPesticide
Method : /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Meth Date : 17-Jul-2009 13:30 lzhang Quant Type: ISTD
Cal Date : 22-MAY-2009 23:59 Cal File: P052214b.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CCV.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * *(vf/vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
vf	1.00000	Final extract volume(mL)
vi	1.00000	Initial sample volume(L)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (uG)
$ 2 TCMX	5.833	5.821	(0.371)	3206995162	0.54670	0.547
M 3 pcb1016/1242				2912793809	3.63575	3.64
4 pcb1016/1242-1	6.924	6.914	(0.441)	774380957	3.75018	3.75
5 pcb1016/1242-2	7.701	7.696	(0.490)	1007006604	3.81430	3.81
6 pcb1016/1242-3	7.925	7.919	(0.505)	587565700	3.07688	3.08(R)
7 pcb1016/1242-4	8.636	8.626	(0.550)	543840545	3.89316	3.89
M 8 pcb1260				5691309656	3.84268	3.84
9 pcb1260-1	10.694	10.687	(0.681)	1147458861	3.97808	3.98
10 pcb1260-2	11.116	11.112	(0.708)	1560203990	3.56220	3.56
11 pcb1260-3	12.061	12.056	(0.768)	843552472	3.50193	3.50
12 pcb1260-4	12.489	12.486	(0.795)	2140094332	4.16553	4.16
$ 38 DCB	14.382	14.378	(0.916)	2414720907	0.52840	0.528
* 39 Decachlorodiphenyl Ether	15.702	15.697	(1.000)	8426920320	2.00000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 23-Jul-2009 08:55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071715b.d
Lab Smp Id: 0907252A/253A pest
Analysis Type:
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 18:55
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	8768828706	4384414353	17537657412	8656147815	-1.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
29 Decachlorodipheny	15.70	15.20	16.20	15.70	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 20-Jul-2009 08:42

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: gcp.i
Lab File ID: P071714b.d
Lab Smp Id: 0907252A/253A pcb
Analysis Type: VOA
Quant Type: ISTD
Operator: rn
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

Calibration Date: 17-JUL-2009
Calibration Time: 19:41
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	8301083065	4150541532	16602166129	8426920320	1.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
39 Decachlorodipheny	15.70	15.20	16.20	15.70	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Report Date: 23-Jul-2009 08:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction:
Lab Smp Id: 0907252A/253A pest
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: 1050-166.spk
Quant Type: ISTD
Sublist File: LCSfull.sub
Method File: /chem/gcp.i/17Jul2009.b/p0910519.m/p0920519.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
8 a-BHC	0.4000	0.3354	83.84	65-125
10 b-BHC	0.4000	0.3244	81.09	65-125
9 g-BHC	0.4000	0.3134	78.35	65-125
11 d-BHC	0.4000	0.3331	83.28	65-125
12 Heptachlor	0.4000	0.3530	88.25	65-125
13 Aldrin	0.4000	0.3359	83.99	65-125
14 Heptachlor Epoxide	0.4000	0.3454	86.34	65-125
18 Endosulfan I	0.4000	0.3368	84.19	65-125
17 DDE	0.8000	0.7385	92.31	65-125
19 Dieldrin	0.8000	0.7115	88.94	65-125
20 Endrin	0.8000	0.6992	87.41	65-125
22 Endosulfan II	0.8000	0.6595	82.43	65-125
21 DDD	0.8000	0.6644	83.05	65-125
24 Endrin Aldehyde	0.8000	0.4250	53.13	20-86
26 Endosulfan Sulfate	0.8000	0.6416	80.20	65-125
23 DDT	0.8000	0.6713	83.91	65-125
27 Endrin Ketone	0.8000	0.6173	77.16	65-125
16 a-Chlordane	0.4000	0.3292	82.29	65-125
15 g-Chlordane	0.4000	0.2956	73.89	65-125
25 Methoxychlor	4.000	3.277	81.92	65-125
168 Mirex	2.000	0.000	*	65-125

SURROGATE COMPOUND	CONC ADDED ug	CONC RECOVERED ug	% RECOVERED	LIMITS
$ 2 TCMX	1.400	1.143	81.62	60-120
$ 28 DCB	2.200	1.580	71.83	60-120

Report Date: 20-Jul-2009 08:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name:
Client SDG: 17Jul2009
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 0907252A/253A pcb
Client Smp ID: LCS
Level: LOW
Operator: rn
Data Type: GC DATA
SampleType: LCS
SpikeList File: LCS10.spk
Quant Type: ISTD
Sublist File: CCV.sub
Method File: /chem/gcp.i/17Jul2009.b/p09p0522.m/p09b0522.m
Misc Info: None

SPIKE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
M 3 pcb1016/1242	5.00	3.64	72.72	65-125
4 pcb1016/1242-1	5.00	3.75	75.00	65-125
5 pcb1016/1242-2	5.00	3.81	76.29	65-125
6 pcb1016/1242-3	5.00	3.08	61.54*	65-125
7 pcb1016/1242-4	5.00	3.89	77.86	65-125
M 8 pcb1260	5.00	3.84	76.85	65-125
9 pcb1260-1	5.00	3.98	79.56	65-125
10 pcb1260-2	5.00	3.56	71.24	65-125
11 pcb1260-3	5.00	3.50	70.04	65-125
12 pcb1260-4	5.00	4.16	83.31	65-125

SURROGATE COMPOUND	CONC ADDED uG	CONC RECOVERED uG	% RECOVERED	LIMITS
$ 2 TCMX	0.600	0.547	91.12	60-120
$ 38 DCB	0.600	0.528	88.07	60-120

Data File: /chem/gcp.i/17Jul2009.b/P071715b.d

Date : 18-JUL-2009 00:53

Client ID: LCS

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0357

Data File: /chem/gcp.i/17Jul2009.b/P071714b.d

Date : 18-JUL-2009 00:26

Client ID: LCS

Sample Info:

Column phase:

Instrument: gcp.i

Operator: rn

Column diameter: 2.00

0358

TO-4A/TO-10A ASE Extraction Logbook @Air Toxics Ltd. Logbook #: 1807

Date Extracted: 7/16/09
Set-up By: MJS
Spiked By: MJS
Spike Date: 7/16/09
Initial Solvent: Dichloromethane
Initial Solvent Lot#: 090321

Spike Witness: MM
Date Witnessed: 7/16/09
☑ *Proj.Pr./COC checked* ☐ *Spike ID Verified*
☑ *Spike Amt. Verified* ☐ *Equipment checked*
☐ *Verified Media Certified*

Final Solvent: Hexane
Final Solvent Lot#: 090185
Concentrated By: MJS
Date Concentrated: 7/17/09

ATL Sample ID #	Clients I.D. #	Car. #	PUF / XAD/Filter Lot #	Surr. ID/Conc. (µg/mL)	Surr. Amt (mL)	LCS ID/Conc. (µg/mL)	LCS Amt (mL)	Fin. Vol. (mL)	Add acid Y/N
0907252A-01A	OFF04-070909		P090625/F090619	981-68-2.4	0.25	N/A	N/A	1.0	N
↓ -04A	OFF03-070909		↓	↓	↓	↓	↓	↓	↓
0907253A-01A	BNI06-071009		↓	↓	↓	↓	↓	↓	↓
↓ -04A	BNI08-071009		↓	↓	↓	↓	↓	↓	↓
0907252A 0907253A -B1K	N/A		P090709	↓	↓	↓	↓	↓	↓
↓ -PCB LCS	↓		↓	↓	↓	981-65-20	0.25	↓	↓
↓ -Pest LCS	↓		↓	↓	↓	981-74-04-4.0	1.0	↓	↓
							MJS 7/16/09		

Comments: 0907252A/0907253A - PCB LCS: After 1st hexane addition and after concentrator tip flicking, spouting still occurred. (during concentrating on the water bath)

Signed: [signature] Date: 7/17/09

0359

Revised: 4/09

GC-P Instrument Run Log

@Air Toxics Ltd.

Logbook: 1766

108

Method: Mod. TO-4A/TO-10A

IS Std ID	IS	Area Counts		Breakdown %	
na	1-Bromo-2-Nitrobenzene	Front: na		Endrin	Front: 2.59
		Back: na			Back: 2.72
16685-32650	Decafluorodiphenyl Ether pest	Front: 1867712518 0		DDT	Front: 9.90
		Back: 8768828706			Back: 7.77.
↓	PCB	Front: 1744246 9517		must be ≤15%	
		Back: 4301083065			

Injection Volume: 1.0 µL

(GMT)

	USE	File #	Sample / Client Name	Vial #	Dil. Factor	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	P071701	Hexane Wash	1	1.0	li	7/17/09	1712	li	
2	✓	02	16685-143-0.8	2				1738		
3	X	03	1685-137-3 PCB	3				1828		CCV PCB
4	✓	04	16685-135A-0.6	4				1855		Pest CCV
5	✓	05	1685-137-3 PCB CCV	5				1941		PCB CCV
6	✓	06	Hexane Blank	6				2010		
7	✓	07	09071167A-04A	7				2047		
8	✓	08	09072253A 09072252A -Blank	8				2146		
9	✓	09	09072252A-04A	9				2212		
10	✓	10	09072253A-04A	10				2239		
11	✓	11	1 -01A	11				2306		
12	✓	12	09072252A-01A	12				2333		
13	✓	13	1 -04AA	13				2359		
14	✓	14	09072252A/253A-LCS	PCB 14			7/18/09	0026		
15	✓	15	1 -LCS	Pest 15				0053		
16	✓	16	1685-137-3 PCB	5				0120		
17	✓	17	1685-135A-0.6 Pest	4				0146	↓	
18										
19										
20										
21										
22										
23										
24						li 7/20/09				

Calculation Check: File ID: V071704 Compound: a-BHC Initials: li

nG On Column = Area of Compound in Sample / Area of Int. Standard in Sample × Conc. Int. Standard / ICAL RRF$_{AVG}$ = (16223887839 / 18677125180) × (2.0 / 2.78691) = **0.62338**

µG/Sample = nG On Column X 1000 µL Final Vol. × D.F. / 1.0 µL Inj. Vol. X 1000 nG/µG = (0.6234) × (1000) × (1.00) / (1000) = **0.6234**

Reported Result = _____

Signed: _____ Date: 7/17/09

Revised: 02/27/06

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: Tetra Tech
ATTENTION: Mr. Doug Herlocker
FAX #:
FROM: Sample Receiving
Workorder #: 0907252A
# of pages (Including Cover): 1

7/24/2009

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Kelly Buettner at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

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.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA ~~95360-1710~~ 95630
(916) 985-1000 FAX (916) 985-1020

0363

Page 1 of 1

Project Manager: Douglas Herbeckler
Collected by: (Print and Sign) Becki Davis
Company: Tetra Tech EM Inc. Email: douglas.herbeckler@tetratech.com
Address: 3380 Americana Terr, 201 City: Boise State: ID Zip: 83706
Phone: 208 389 1030 Fax: 208 389 1183

Project Info:
P.O. #:
Project #: 103X0333.006
Project Name: BMI OFFSITE

Turn Around Time: ☑ Normal ☐ Rush _____ specify

Circle Reporting Units: ppbv ppmv ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume m³	Analysis Requested
OA	OFF04-070909		07/09/09	745	1710	9.22	86.89	TO14A
	OFF04-070909					9.21	74.76	TO9A
	OFF04-070909					8.13	42.12	TO13A
OA	OFF03-070909			808	1720	9.33	83.50	TO14A
	OFF03-070909					9.32	67.65	TO9A
	OFF03-070909					9.33	79.29	TO13A

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Becki Davis	7/10/2009 1800	[signature]	7/14/09 AM 0857
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed ex		6°C	Good	Yes No None	0907252

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0907252A

Client

Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Phone

208-389-1030

Fax

Date Promised: 07/28/09
Date Completed: 7/23/09
Date Received: 7/14/09
PO#: 103P0333.005
Project#: 103P0333.006 BMI OFFSITE

Sales Rep: JJM

Total $: $ 720.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Amount$
01A	OFF04-070909	Modified TO-4A	7/9/2009	$360.00
04A	OFF03-070909	Modified TO-4A	7/9/2009	$360.00
04AA	OFF03-070909 Lab Duplicate	Modified TO-4A	7/9/2009	$0.00
05A	Lab Blank	Modified TO-4A	NA	$0.00
06A	LCS	Modified TO-4A	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Las Vegas Phase III/12356

BILL TO: Mr. Doug Herlocker
Tetra Tech
3380 Americana Terrace, Suite 201
Boise, ID 83706

Analysis Code: Pest/PCB

TERMS: NET 45

Reporting Method: Modified TO-4A

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

Other Records

WM 7/17/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071702.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 17-JUL-2009 17:38
Operator : rn Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Primary Column, RTX-CLPesticides II
Method : /chem/gcp.i/17Jul2009.b/BREAK.m
Meth Date : 16-Jun-2009 15:58 lzhang Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	CONCENTRATIONS FINAL (area)
1 Total DDT				9406743156		
2 Total Endrin				11522210184		
3 p,p'-DDE	10.839	10.848	-0.009	171073699		
4 Endrin	11.570	11.578	-0.008	11224176043		
5 p,p'-DDD	11.731	11.739	-0.008	760254091		
6 p,p'-DDT	12.182	12.190	-0.008	8475415366		
7 Endrin Aldehyde	12.377	12.386	-0.009	35034023		
8 Endrin Ketone	13.504	13.513	-0.009	263000118		

$$\text{Endrin Breakdown} = \frac{35034023 + 263000118}{11522210184} \times 100 = 2.59\%$$

$$\text{DDT Breakdown} = \frac{171073699 \times 760254091}{9406743156} \times 100 = 9.90\%$$

RDM 7/17/09

Air Toxics Ltd.

Pesticides Analysis, dual ECD

Data file : /chem/gcp.i/17Jul2009.b/P071702b.d
Lab Smp Id: 1685-143-0.8 Client Smp ID: BREAKDOWN
Inj Date : 17-JUL-2009 17:38
Operator : rn Inst ID: gcp.i
Smp Info : 1685-143-0.8
Misc Info : None
Comment : Confirmation Column, RTX-CLPesticides
Method : /chem/gcp.i/17Jul2009.b/BREAK.m/BREAKB.m
Meth Date : 16-Jun-2009 16:04 rnoonan Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

	Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (area)	FINAL (area)
M	1 Total DDT				4118497270		
M	2 Total Endrin				4852718640		
	3 p,p'-DDE	10.898	10.844	0.054	41004624		
	4 Endrin	11.079	11.079	0.000	4720849883		
	5 p,p'-DDD	11.166	11.166	0.000	278910761		
	6 p,p'-DDT	11.578	11.577	0.001	3798581885		
	7 Endrin Aldehyde	12.033	12.031	0.002	8929791		
	8 Endrin Ketone	13.032	13.032	0.000	122938966		

Endrin Breakdown = $\frac{8929791 + 122938966}{4852718640} \times 100 = 2.72\%$

DDT Breakdown = $\frac{41004624 + 278910761}{4118497270} \times 100 = 7.77\%$

Compound Listing

Modified TO-4A

CAS Number	Compound	Detection Limit ug	Type
33213-65-9	Endosulfan II	0.10	
309-00-2	Aldrin	0.10	
8001-35-2	Toxaphene	1.0	
9999-9999-098	Aroclor 1016/1242	1.0	
11141-16-5	Aroclor-1232	1.0	
12672-29-6	Aroclor-1248	1.0	
11097-69-1	Aroclor-1254	1.0	
11096-82-5	Aroclor-1260	1.0	
877-09-8	2,4,5,6-Tetrachloro-m-xylene		
2051-24-3	Decachlorobiphenyl		
11104-28-2	Aroclor-1221	1.0	
319-84-6	alpha-BHC	0.10	
319-85-7	beta-BHC	0.10	
319-86-8	delta-BHC	0.10	
58-89-9	gamma-BHC (Lindane)	0.10	
5103-71-9	alpha-Chlordane	0.10	
5103-74-2	gamma-Chlordane	0.10	
72-54-8	4,4'-DDD	0.10	
72-55-9	4,4'-DDE	0.10	
50-29-3	4,4'-DDT	0.10	
60-57-1	Dieldrin	0.10	
959-98-8	Endosulfan I	0.10	
1031-07-8	Endosulfan Sulfate	0.10	
72-20-8	Endrin	0.10	
7421-93-4	Endrin Aldehyde	0.10	
53494-70-5	Endrin Ketone	0.10	
76-44-8	Heptachlor	0.10	
1024-57-3	Heptachlor Epoxide	0.10	
72-43-5	4,4'-Methoxychlor	1.0	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0907252A

A_1	A_2	R	T	M	Q	
☐	☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
		☑	☐	NA	☐	Sample Discrepancy Report (SDR) is completed
☐	☐	☐	☐	NA	☐	Corrective Action issued - #
☐	☐	☐	☐	☑	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES / NO)***

☐	☐	☑	☐	☑	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☐	☐	☑	☐	☑	☐	Hold time is met for all samples
		☑	☐	NA	☐	Appropriate data qualifier flags are applied
		☑	☐	NA	☐	Manual integrations for samples and QC are properly documented
☐	☐	☑	☐		☐	Samples analyzed within the project or method specific clock
		☑	☐			Retention times have been verified
☐	☐	☑	☐		☐	Appropriate ICAL(s) included
		☑	☐	☑	☐	At least one result per sample is verified against the target quant sheets/raw data
☐	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☐	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		☐	☐			TICs resemble reference spectra
		☐	☐			TICs between duplicate samples are consistent
☐	☐	☑	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☐	☑	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☑		☑		Special units for all samples in the final report are correctly calculated
		☑	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
		☑				Date MDL(s) performed per instrument(s) 3/4/09, 3/23/09, 12/19/08
☐	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	☐	☐				Final pressure consistent with canister size (6L vs. 1L)
☐	☐	☐				Verify receipt pressures
☐	☐	☐				Verify canister ID #'s
		☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
				☑		MDL date(s) present for all instruments utilized
		☑	☐	NA	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: Dup 0&A (Analytical)
GMT.
Report in ug/m³. Vol. on COC.

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1:	R: 7/23/09	7/23/09	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 02/20/09

Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable