

November 20, 2008

Ms. Kelly Buettner
Air Toxics LTD.
180 Blue Ravine Road, Suite.B
Folsom, CA 95630-1020

Dear Ms. Buettner,

Enclosed are the results for Frontier Analytical Laboratory project **5183**. This corresponds to your project number **103P0333** and purchase order number **0811274C**. The four PUF/filter samples received on 11/13/2008 were extracted and analyzed by EPA Method TO-9 for tetra through octa chlorinated dibenzo dioxins and furans. Air Toxics LTD. requested a Level IV data package and a turnaround time of fifteen business days for project **5183**.

The following level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request sheet, the cartridge request form, an extraction bench sheet, and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. You also requested Electronic Data Deliverables (EDD) for this project. The EDD and Level I summary have been sent to you via email. A copy of the entire Level IV data package on compact disk has been sent to you via OnTrac. The enclosed results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **5183**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Director of Air Toxics

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5183**

Received on: **11/13/2008**

Project Due: **12/09/2008** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time
5183-001-SA	0	103PO333	OFF01-110708	EPA TO-9 D/F	PUF / Filter	11/07/2008	06:59 am
5183-002-SA	0	103PO333	OFF02-110708	EPA TO-9 D/F	PUF / Filter	11/07/2008	07:15 am
5183-003-SA	0	103PO333	OFF01-111108	EPA TO-9 D/F	PUF / Filter	11/11/2008	07:37 am
5183-004-SA	0	103PO333	OFF02-111108	EPA TO-9 D/F	PUF / Filter	11/11/2008	07:53 am

FAL
Sample ID

Notes

5183-003-SA Using hand written sampling time for our tracking purposes.

EPA Method TO-9 PCDD/F



FAL ID: 5183-001-MB
Client ID: Method Blank
Matrix: PUF / Filter
Batch No: X1568

Date Extracted: 11-13-2008
Date Received: NA
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample


Acquired: 11-18-2008
WHO TEQ: 0.00

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.39		-	0.779				
1,2,3,7,8-PeCDD	ND	1.18		-	0.866				
1,2,3,4,7,8-HxCDD	ND	2.24		-	2.25				
1,2,3,6,7,8-HxCDD	ND	2.36		-	2.20	Total TCDD	ND	1.39	
1,2,3,7,8,9-HxCDD	ND	2.62		-	2.18	Total PeCDD	ND	1.18	
1,2,3,4,6,7,8-HpCDD	ND	2.92		-	2.71	Total HxCDD	ND	2.62	
OCDD	ND	4.26		-	5.66	Total HpCDD	ND	2.92	
2,3,7,8-TCDF	ND	1.54		-	0.744				
1,2,3,7,8-PeCDF	ND	1.77		-	0.941				
2,3,4,7,8-PeCDF	ND	1.87		-	0.982				
1,2,3,4,7,8-HxCDF	ND	1.28		-	1.47				
1,2,3,6,7,8-HxCDF	ND	1.24		-	1.31				
2,3,4,6,7,8-HxCDF	ND	1.39		-	1.51				
1,2,3,7,8,9-HxCDF	ND	1.65		-	1.85	Total TCDF	ND	1.54	
1,2,3,4,6,7,8-HpCDF	ND	1.29		-	1.12	Total PeCDF	ND	1.87	
1,2,3,4,7,8,9-HpCDF	ND	1.68		-	1.53	Total HxCDF	ND	1.65	
OCDF	ND	2.84		-	4.19	Total HpCDF	ND	1.68	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	70.3	40.0 - 130	
13C-1,2,3,7,8-PeCDD	62.3	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	73.3	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	72.0	25.0 - 130	
13C-OCDD	73.1	25.0 - 130	
13C-2,3,7,8-TCDF	68.9	40.0 - 130	
13C-1,2,3,7,8-PeCDF	67.8	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	79.3	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	74.0	25.0 - 130	
13C-OCDF	83.0	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	85.5	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	106	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	108	70.0 - 130	
13C-2,3,4,7,8-PeCDF	70.4	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	106	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	126	70.0 - 130	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
 - B Analyte is present in Method Blank
 - C Chemical Interference
 - D Presence of Diphenyl Ethers
 - E Analyte concentration is above calibration range
 - F Analyte confirmation on secondary column
 - J Analyte concentration is below calibration range
 - M Maximum possible concentration
 - ND Analyte Not Detected
 - NP Not Provided
 - S Sample acceptance criteria not met
 - X Matrix interferences
 - * Result taken from dilution or reinjection

Analyst: 
Date: 11/19/08

Reviewed By: 
Date: 11/20/08

EPA Method TO-9 PCDD/F



FAL ID: 5183-001-LCS1/LCS2
Client ID: LCS1/LCS2
Matrix: PUF / Filter

Date Extracted: 11-13-2008
Date Received: NA
LCS1 Amount: 1.00 sample
LCS2 Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
Batch No: X1568
Units: pg/sample

LCS1 Acquired: 11-18-2008
LCS2 Acquired: 11-18-2008
GC Column: DB5

Compound	Amount Spiked (pg)	LCS1 Amount	LCS2 Amount	% RSD	Qual
2,3,7,8-TCDD	200	3.92	3.58	9.07	
1,2,3,7,8-PeCDD	1000	22.4	21.5	4.10	
1,2,3,4,7,8-HxCDD	1000	21.6	20.0	7.69	
1,2,3,6,7,8-HxCDD	1000	22.5	21.1	6.42	
1,2,3,7,8,9-HxCDD	1000	22.0	20.5	7.06	
1,2,3,4,6,7,8-HpCDD	1000	24.4	22.7	7.22	
OCDD	2000	45.5	42.1	7.76	
2,3,7,8-TCDF	200	4.37	4.10	6.38	
1,2,3,7,8-PeCDF	1000	22.9	21.5	6.31	
2,3,4,7,8-PeCDF	1000	22.8	22.0	3.57	
1,2,3,4,7,8-HxCDF	1000	20.6	19.8	3.96	
1,2,3,6,7,8-HxCDF	1000	21.7	20.2	7.16	
2,3,4,6,7,8-HxCDF	1000	21.4	20.8	2.84	
1,2,3,7,8,9-HxCDF	1000	21.8	21.5	1.39	
1,2,3,4,6,7,8-HpCDF	1000	24.0	22.8	5.13	
1,2,3,4,7,8,9-HpCDF	1000	28.8	27.1	6.08	
OCDF	2000	43.9	42.4	3.48	
Internal Standards		% Rec	% Rec	QC Limits	
13C-2,3,7,8-TCDD	4000	88.0	95.8	40.0 - 130	
13C-1,2,3,7,8-PeCDD	4000	82.6	85.2	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	4000	94.8	95.3	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	4000	91.9	91.1	25.0 - 130	
13C-OCDD	8000	96.7	94.0	25.0 - 130	
13C-2,3,7,8-TCDF	4000	88.7	90.4	40.0 - 130	
13C-1,2,3,7,8-PeCDF	4000	87.5	82.4	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	4000	101	98.9	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	4000	89.6	87.9	25.0 - 130	
13C-OCDF	8000	106	102	25.0 - 130	
Cleanup Surrogate					
13C-1,2,3,7,8,9-HxCDF	4000	107	101	40.0 - 130	
Pre Spike Surrogate		% Rec	% Rec	QC Limits	
37Cl-2,3,7,8-TCDD	4000	103	104	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	4000	101	102	70.0 - 130	
13C-2,3,4,7,8-PeCDF	4000	72.0	74.2	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	4000	102	104	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	4000	125	125	70.0 - 130	

Analyst:

Date: 11/19/08

Reviewed By:

Date: 11/20/08

EPA Method TO-9 PCDD/F



FAL ID: 5183-001-SA
Client ID: OFF01-110708
Matrix: PUF / Filter
Batch No: X1568

Date Extracted: 11-13-2008
Date Received: 11-13-2008
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 11-18-2008
WHO TEQ: 18.8

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.42		-	0.779				
1,2,3,7,8-PeCDD	ND	2.69		-	0.866				
1,2,3,4,7,8-HxCDD	3.34	-	J	0.334	2.25				
1,2,3,6,7,8-HxCDD	6.86	-	J	0.686	2.20	Total TCDD	10.9	-	
1,2,3,7,8,9-HxCDD	5.90	-	J	0.590	2.18	Total PeCDD	14.8	-	J
1,2,3,4,6,7,8-HpCDD	79.4	-		0.794	2.71	Total HxCDD	65.0	-	
OCDD	274	-		0.0274	5.66	Total HpCDD	167	-	
2,3,7,8-TCDF	11.2	-		1.12	0.744				
1,2,3,7,8-PeCDF	17.9	-	J	0.894	0.941				
2,3,4,7,8-PeCDF	5.83	-	J	2.91	0.982				
1,2,3,4,7,8-HxCDF	38.5	-	J	3.85	1.47				
1,2,3,6,7,8-HxCDF	28.0	-	J	2.80	1.31				
2,3,4,6,7,8-HxCDF	17.0	-	J	1.70	1.51				
1,2,3,7,8,9-HxCDF	12.8	-	J	1.28	1.85	Total TCDF	194	-	
1,2,3,4,6,7,8-HpCDF	127	-		1.27	1.12	Total PeCDF	175	-	
1,2,3,4,7,8,9-HpCDF	54.6	-		0.546	1.53	Total HxCDF	229	-	
OCDF	397	-		0.0397	4.19	Total HpCDF	259	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	80.7	40.0 - 130	
13C-1,2,3,7,8-PeCDD	71.1	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	82.7	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	77.1	25.0 - 130	
13C-OCDD	81.0	25.0 - 130	
13C-2,3,7,8-TCDF	77.9	40.0 - 130	
13C-1,2,3,7,8-PeCDF	75.0	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	87.5	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	78.2	25.0 - 130	
13C-OCDF	91.6	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	93.8	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	106	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	103	70.0 - 130	
13C-2,3,4,7,8-PeCDF	71.0	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	105	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	129	70.0 - 130	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 

Date: 11/19/08

Reviewed By: 

Date: 11/20/08

EPA Method TO-9 PCDD/F



FAL ID: 5183-002-SA
Client ID: OFF02-110708
Matrix: PUF / Filter
Batch No: X1568

Date Extracted: 11-13-2008
Date Received: 11-13-2008
Amount: 1.00 sample


ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: sample


Acquired: 11-18-2008
WHO TEQ: 10.6

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.74		-	0.779				
1,2,3,7,8-PeCDD	ND	1.65		-	0.866				
1,2,3,4,7,8-HxCDD	ND	2.34		-	2.25				
1,2,3,6,7,8-HxCDD	3.96	-	J	0.396	2.20	Total TCDD	5.72	-	J
1,2,3,7,8,9-HxCDD	3.38	-	J	0.338	2.18	Total PeCDD	7.83	-	J,M
1,2,3,4,6,7,8-HpCDD	41.5	-	J	0.415	2.71	Total HxCDD	35.1	-	J
OCDD	127	-		0.0127	5.66	Total HpCDD	86.1	-	
2,3,7,8-TCDF	7.03	-	J	0.703	0.744				
1,2,3,7,8-PeCDF	9.16	-	J	0.458	0.941				
2,3,4,7,8-PeCDF	4.34	-	J	2.17	0.982				
1,2,3,4,7,8-HxCDF	20.2	-	J	2.02	1.47				
1,2,3,6,7,8-HxCDF	14.8	-	J	1.48	1.31				
2,3,4,6,7,8-HxCDF	8.96	-	J	0.896	1.51				
1,2,3,7,8,9-HxCDF	7.21	-	J	0.721	1.85	Total TCDF	110	-	
1,2,3,4,6,7,8-HpCDF	65.7	-		0.657	1.12	Total PeCDF	92.8	-	
1,2,3,4,7,8,9-HpCDF	30.7	-	J	0.307	1.53	Total HxCDF	119	-	
OCDF	207	-		0.0207	4.19	Total HpCDF	137	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	97.8	40.0 - 130	
13C-1,2,3,7,8-PeCDD	85.3	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	104	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	96.7	25.0 - 130	
13C-OCDD	102	25.0 - 130	
13C-2,3,7,8-TCDF	101	40.0 - 130	
13C-1,2,3,7,8-PeCDF	91.4	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	110	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	101	25.0 - 130	
13C-OCDF	114	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	109	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	100	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	97.3	70.0 - 130	
13C-2,3,4,7,8-PeCDF	71.4	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	98.3	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	120	70.0 - 130	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/19/08

Reviewed By: 
Date: 11/20/08

EPA Method TO-9 PCDD/F



FAL ID: 5183-003-SA
Client ID: OFF01-111108
Matrix: PUF / Filter
Batch No: X1568

Date Extracted: 11-13-2008
Date Received: 11-13-2008
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 11-18-2008
WHO TEQ: 16.8

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.30		-	0.779				
1,2,3,7,8-PeCDD	ND	2.22		-	0.866				
1,2,3,4,7,8-HxCDD	6.26	-	J	0.626	2.25				
1,2,3,6,7,8-HxCDD	11.5	-	J	1.15	2.20	Total TCDD	9.89	-	J
1,2,3,7,8,9-HxCDD	10.4	-	J	1.04	2.18	Total PeCDD	17.0	-	J
1,2,3,4,6,7,8-HpCDD	247	-		2.47	2.71	Total HxCDD	152	-	
OCDD	693	-		0.0693	5.66	Total HpCDD	579	-	
2,3,7,8-TCDF	11.3	-		1.13	0.744				
1,2,3,7,8-PeCDF	12.0	-	J	0.601	0.941				
2,3,4,7,8-PeCDF	4.36	-	J	2.18	0.982				
1,2,3,4,7,8-HxCDF	24.9	-	J	2.49	1.47				
1,2,3,6,7,8-HxCDF	18.2	-	J	1.82	1.31				
2,3,4,6,7,8-HxCDF	11.2	-	J	1.12	1.51				
1,2,3,7,8,9-HxCDF	8.42	-	J	0.842	1.85	Total TCDF	230	-	
1,2,3,4,6,7,8-HpCDF	83.3	-		0.833	1.12	Total PeCDF	130	-	
1,2,3,4,7,8,9-HpCDF	36.5	-	J	0.365	1.53	Total HxCDF	152	-	
OCDF	233	-		0.0233	4.19	Total HpCDF	170	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	103	40.0 - 130	
13C-1,2,3,7,8-PeCDD	88.9	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	103	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	98.1	25.0 - 130	
13C-OCDD	99.4	25.0 - 130	
13C-2,3,7,8-TCDF	98.8	40.0 - 130	
13C-1,2,3,7,8-PeCDF	93.0	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	112	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	101	25.0 - 130	
13C-OCDF	110	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	117	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	101	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	100	70.0 - 130	
13C-2,3,4,7,8-PeCDF	70.2	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	100	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	122	70.0 - 130	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 

Date: 11/19/08

Reviewed By: 

Date: 11/20/08

EPA Method TO-9 PCDD/F



FAL ID: 5183-004-SA
Client ID: OFF02-111108
Matrix: PUF / Filter
Batch No: X1568

Date Extracted: 11-13-2008
Date Received: 11-13-2008
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 11-18-2008
WHO TEQ: 12.4

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.03		-	0.779				
1,2,3,7,8-PeCDD	ND	2.89		-	0.866				
1,2,3,4,7,8-HxCDD	7.20	-	J	0.720	2.25	Total TCDD	5.04	-	J
1,2,3,6,7,8-HxCDD	13.2	-	J	1.32	2.20	Total PeCDD	11.5	-	J
1,2,3,7,8,9-HxCDD	10.8	-	J	1.08	2.18	Total HxCDD	165	-	
1,2,3,4,6,7,8-HpCDD	293	-		2.93	2.71	Total HpCDD	684	-	
OCDD	828	-		0.0828	5.66				
2,3,7,8-TCDF	6.48	-	J	0.648	0.744				
1,2,3,7,8-PeCDF	5.70	-	J	0.285	0.941				
2,3,4,7,8-PeCDF	3.50	-	J	1.75	0.982				
1,2,3,4,7,8-HxCDF	12.3	-	J	1.23	1.47	Total TCDF	134	-	
1,2,3,6,7,8-HxCDF	8.29	-	J	0.829	1.31	Total PeCDF	62.6	-	
2,3,4,6,7,8-HxCDF	5.22	-	J	0.522	1.51	Total HxCDF	70.2	-	
1,2,3,7,8,9-HxCDF	4.40	-	J	0.440	1.85	Total HpCDF	74.5	-	
1,2,3,4,6,7,8-HpCDF	34.2	-	J	0.342	1.12				
1,2,3,4,7,8,9-HpCDF	16.4	-	J	0.164	1.53				
OCDF	103	-		0.0103	4.19				

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	40.0 - 130	
13C-1,2,3,7,8-PeCDD	87.8	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	101	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	97.8	25.0 - 130	
13C-OCDD	97.5	25.0 - 130	
13C-2,3,7,8-TCDF	98.9	40.0 - 130	
13C-1,2,3,7,8-PeCDF	91.4	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	110	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	98.7	25.0 - 130	
13C-OCDF	107	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	110	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	103	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	102	70.0 - 130	
13C-2,3,4,7,8-PeCDF	71.5	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	101	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	126	70.0 - 130	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 

Date: 11/19/08

Reviewed By: 

Date: 11/20/08



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. Relinquished signature also indicated 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.

AIR TOXICS LTD.
180 BLUE RAVINE RD, SUITE B
FOLSOM, CA 95630-1020
916-985-1000 main line
916-985-1020 fax line

Chain-of-Custody Record

Page 1 of 1

Contact Person Kelly Buettner Company Air Toxics Ltd. Address 180-B Blue Ravine City Folsom StateCA Zip 95630 Phone 916-605-3356 FAX 916-985-1020		Project Information: P.O. # 0811274C Project # 103PO333 Project Name BMI		Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify Pressurized by: Date: Press. Gas: N2 He			
Collected By: (Signature)		Date & Time		Analysis Requested		Canister Pressure/Vacuum Initial Final Receipt Final (psi)	
Lab I.D.	Field Sample I.D.	Canister I.D.					
	OFF01-110708		11/7/08 0659	TO-9	"Hg		
	OFF02-110708		11/7/08 0715	TO-9	"Hg		
	OFF01-111108		11/11/08	TO-9	"Hg		
	OFF02-111108		11/11/08 0753	TO-9	"Hg		
					"Hg		
					"Hg		
					"Hg		
					"Hg		
					"Hg		
					"Hg		
					"Hg		
					"Hg		
Relinquished By: (Signature) Date/Time 11/13/08 1440 - Kelly 500		Received By: (Signature) Date/Time 11/13/08 3:10		Notes: K.buettner@airtoxics.com			
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Shipper Name		Air Bill #	Opened By	Temp ©	Condition	Custody Seals Yes No None	Work Order #
Lab Use Only							

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5183**

Client:	Air Toxics
Client Project ID:	103PO333
Date Received:	11/13/2008
Time Received:	03:10 pm
Received By:	KZ
Logged In By:	BM
# of Samples Received:	4
Duplicates:	0
Storage Location:	R1

Method of Delivery:	Courier
Tracking Number:	NA
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	No
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	11/16/2008
Adequate Sample Volume	Yes
Anomalies or additional comments:	

**Air
Toxics LTD.**

Relinquishing signature on this document indicates the 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 materials. Relinquished signature also indicates agreement to hold harmless, defend and claim defense expenses of Frontier Analytical Laboratory.

ADD TOXICS-1-15
140 HILLDALE RD. SUITE B
EL DORADO HILLS, CA 95762
(916) 934-0900
(916) 934-0999 Fax
(916) 934-1020 Fax 2nd

Frontier Analytical Laboratory

5183-001-SA

Client ID: 00101-1000

Storage: 15

06FF01-110708
709
0659

0611274-150 C7
Duplicate Phys10

06FF01-110708

709A

110708-0659

06FF02-110708
709
0715

Frontier Analytical Laboratory

5183-002-SA

Client ID: 00101-1000

Storage: 15

0611274-150 C7

Duplicate Phys10

06FF02-110708

709A

110708-0715

