



AN ENVIRONMENTAL ANALYTICAL LABORATORY

1/13/2009

Mr. Doug Herlocker

Tetra Tech

3380 Americana Terrace, Suite 201

Boise ID 83706

Project Name: BMI

Project #: 103P0333

Dear Mr. Doug Herlocker

The following report includes the data for the above referenced project for sample(s) received on 12/30/2008 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-4A are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

A handwritten signature in black ink that reads 'Kelly Buettner'. The signature is fluid and cursive, with a horizontal line extending from the end.

Kelly Buettner

Project Manager

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0812697A

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 BMI |
| DATE RECEIVED: | 12/30/2008 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 01/13/2009 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> |
|-------------------|--------------|----------------|
| 01A | OFF01-122708 | Modified TO-4A |
| 02A | OFF02-122708 | Modified TO-4A |
| 03A | Lab Blank | Modified TO-4A |
| 04A | LCS | Modified TO-4A |

CERTIFIED BY:

Laboratory Director

DATE: 01/13/09

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

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/08, 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# 0812697A

Two PUF Cartridge samples were received on December 30, 2008. Two PUF Cartridge samples were received on December 30, 2008. 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 5890 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:

| <i>Requirement</i> | <i>Method TO-4A</i> | <i>ATL Modifications</i> |
|--|--|---|
| 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 360 m3 was assumed for all QC samples.

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



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

Client Sample ID: OFF01-122708

Lab ID#: 0812697A-01A

No Detections Were Found.

Client Sample ID: OFF02-122708

Lab ID#: 0812697A-02A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: OFF01-122708

Lab ID#: 0812697A-01A

MODIFIED EPA METHOD TO-4A GC/ECD

| | | |
|--------------|---------|------------------------------------|
| File Name: | 8011228 | Date of Collection: 12/27/08 |
| Dil. Factor: | 1.00 | Date of Analysis: 1/13/09 01:57 AM |
| | | Date of Extraction: 12/31/08 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (uG/m3) | Amount (ug) | Amount (uG/m3) |
|---------------------|--------------------|-----------------------|----------------|-------------------|
| Aldrin | 0.10 | 0.00028 | Not Detected | Not Detected |
| alpha-BHC | 0.10 | 0.00028 | Not Detected | Not Detected |
| beta-BHC | 0.10 | 0.00028 | Not Detected | Not Detected |
| delta-BHC | 0.10 | 0.00028 | Not Detected | Not Detected |
| gamma-BHC (Lindane) | 0.10 | 0.00028 | Not Detected | Not Detected |
| alpha-Chlordane | 0.10 | 0.00028 | Not Detected | Not Detected |
| gamma-Chlordane | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-DDD | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-DDE | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-DDT | 0.10 | 0.00028 | Not Detected | Not Detected |
| Dieldrin | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endosulfan I | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endosulfan II | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endosulfan Sulfate | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endrin | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endrin Aldehyde | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endrin Ketone | 0.10 | 0.00028 | Not Detected | Not Detected |
| Heptachlor | 0.10 | 0.00028 | Not Detected | Not Detected |
| Heptachlor Epoxide | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-Methoxychlor | 1.0 | 0.0028 | Not Detected | Not Detected |
| Toxaphene | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor 1016/1242 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1221 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1232 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1248 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1254 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1260 | 1.0 | 0.0028 | Not Detected | Not Detected |

Air Sample Volume(L): 355000

PCBs were reported from file #8011228a, analyzed on 1/13/09 with a dilution factor of 1.00.

Container Type: PUF Cartridge

| Surrogates | %Recovery | Method Limits |
|------------------------------|-----------|------------------|
| 2,4,5,6-Tetrachloro-m-xylene | 92 | 60-120 |
| Decachlorobiphenyl | 87 | 60-120 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: OFF02-122708

Lab ID#: 0812697A-02A

MODIFIED EPA METHOD TO-4A GC/ECD

| | | |
|--------------|---------|------------------------------------|
| File Name: | 8011229 | Date of Collection: 12/27/08 |
| Dil. Factor: | 1.00 | Date of Analysis: 1/13/09 02:36 AM |
| | | Date of Extraction: 12/31/08 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (uG/m3) | Amount (ug) | Amount (uG/m3) |
|---------------------|--------------------|-----------------------|----------------|-------------------|
| Aldrin | 0.10 | 0.00076 | Not Detected | Not Detected |
| alpha-BHC | 0.10 | 0.00076 | Not Detected | Not Detected |
| beta-BHC | 0.10 | 0.00076 | Not Detected | Not Detected |
| delta-BHC | 0.10 | 0.00076 | Not Detected | Not Detected |
| gamma-BHC (Lindane) | 0.10 | 0.00076 | Not Detected | Not Detected |
| alpha-Chlordane | 0.10 | 0.00076 | Not Detected | Not Detected |
| gamma-Chlordane | 0.10 | 0.00076 | Not Detected | Not Detected |
| 4,4'-DDD | 0.10 | 0.00076 | Not Detected | Not Detected |
| 4,4'-DDE | 0.10 | 0.00076 | Not Detected | Not Detected |
| 4,4'-DDT | 0.10 | 0.00076 | Not Detected | Not Detected |
| Dieldrin | 0.10 | 0.00076 | Not Detected | Not Detected |
| Endosulfan I | 0.10 | 0.00076 | Not Detected | Not Detected |
| Endosulfan II | 0.10 | 0.00076 | Not Detected | Not Detected |
| Endosulfan Sulfate | 0.10 | 0.00076 | Not Detected | Not Detected |
| Endrin | 0.10 | 0.00076 | Not Detected | Not Detected |
| Endrin Aldehyde | 0.10 | 0.00076 | Not Detected | Not Detected |
| Endrin Ketone | 0.10 | 0.00076 | Not Detected | Not Detected |
| Heptachlor | 0.10 | 0.00076 | Not Detected | Not Detected |
| Heptachlor Epoxide | 0.10 | 0.00076 | Not Detected | Not Detected |
| 4,4'-Methoxychlor | 1.0 | 0.0076 | Not Detected | Not Detected |
| Toxaphene | 1.0 | 0.0076 | Not Detected | Not Detected |
| Aroclor 1016/1242 | 1.0 | 0.0076 | Not Detected | Not Detected |
| Aroclor-1221 | 1.0 | 0.0076 | Not Detected | Not Detected |
| Aroclor-1232 | 1.0 | 0.0076 | Not Detected | Not Detected |
| Aroclor-1248 | 1.0 | 0.0076 | Not Detected | Not Detected |
| Aroclor-1254 | 1.0 | 0.0076 | Not Detected | Not Detected |
| Aroclor-1260 | 1.0 | 0.0076 | Not Detected | Not Detected |

Air Sample Volume(L): 131000

PCBs were reported from file #8011229a, analyzed on 1/13/09 with a dilution factor of 1.00.

Container Type: PUF Cartridge

| Surrogates | %Recovery | Method Limits |
|------------------------------|-----------|------------------|
| 2,4,5,6-Tetrachloro-m-xylene | 90 | 60-120 |
| Decachlorobiphenyl | 86 | 60-120 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0812697A-03A

MODIFIED EPA METHOD TO-4A GC/ECD

| | | |
|--------------|---------|------------------------------------|
| File Name: | 8011225 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 1/13/09 12:00 AM |
| | | Date of Extraction: 12/31/08 |

| Compound | Rpt. Limit (ug) | Rpt. Limit (uG/m3) | Amount (ug) | Amount (uG/m3) |
|---------------------|--------------------|-----------------------|----------------|-------------------|
| Aldrin | 0.10 | 0.00028 | Not Detected | Not Detected |
| alpha-BHC | 0.10 | 0.00028 | Not Detected | Not Detected |
| beta-BHC | 0.10 | 0.00028 | Not Detected | Not Detected |
| delta-BHC | 0.10 | 0.00028 | Not Detected | Not Detected |
| gamma-BHC (Lindane) | 0.10 | 0.00028 | Not Detected | Not Detected |
| alpha-Chlordane | 0.10 | 0.00028 | Not Detected | Not Detected |
| gamma-Chlordane | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-DDD | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-DDE | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-DDT | 0.10 | 0.00028 | Not Detected | Not Detected |
| Dieldrin | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endosulfan I | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endosulfan II | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endosulfan Sulfate | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endrin | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endrin Aldehyde | 0.10 | 0.00028 | Not Detected | Not Detected |
| Endrin Ketone | 0.10 | 0.00028 | Not Detected | Not Detected |
| Heptachlor | 0.10 | 0.00028 | Not Detected | Not Detected |
| Heptachlor Epoxide | 0.10 | 0.00028 | Not Detected | Not Detected |
| 4,4'-Methoxychlor | 1.0 | 0.0028 | Not Detected | Not Detected |
| Toxaphene | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor 1016/1242 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1221 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1232 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1248 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1254 | 1.0 | 0.0028 | Not Detected | Not Detected |
| Aroclor-1260 | 1.0 | 0.0028 | Not Detected | Not Detected |

Air Sample Volume(L): 360000

PCBs were reported from file #8011225a, analyzed on 1/13/09 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------------------------|-----------|------------------|
| 2,4,5,6-Tetrachloro-m-xylene | 93 | 60-120 |
| Decachlorobiphenyl | 85 | 60-120 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0812697A-04A

MODIFIED EPA METHOD TO-4A GC/ECD

| | | |
|--------------|---------|------------------------------------|
| File Name: | 8011226 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 1/13/09 12:39 AM |
| | | Date of Extraction: 12/31/08 |

| Compound | %Recovery |
|---------------------|------------|
| Aldrin | 85 |
| alpha-BHC | Not Spiked |
| beta-BHC | Not Spiked |
| delta-BHC | Not Spiked |
| gamma-BHC (Lindane) | 85 |
| alpha-Chlordane | Not Spiked |
| gamma-Chlordane | Not Spiked |
| 4,4'-DDD | Not Spiked |
| 4,4'-DDE | Not Spiked |
| 4,4'-DDT | 86 |
| Dieldrin | 89 |
| Endosulfan I | Not Spiked |
| Endosulfan II | Not Spiked |
| Endosulfan Sulfate | Not Spiked |
| Endrin | 87 |
| Endrin Aldehyde | Not Spiked |
| Endrin Ketone | Not Spiked |
| Heptachlor | 84 |
| Heptachlor Epoxide | Not Spiked |
| 4,4'-Methoxychlor | Not Spiked |
| Toxaphene | Not Spiked |
| Aroclor 1016/1242 | 82 |
| Aroclor-1221 | Not Spiked |
| Aroclor-1232 | Not Spiked |
| Aroclor-1248 | Not Spiked |
| Aroclor-1254 | Not Spiked |
| Aroclor-1260 | 86 |

Air Sample Volume(L): 360000

PCBs were reported from file #8011227, analyzed on 1/13/09 with a dilution factor of 1.00.

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|------------------------------|-----------|---------------|
| 2,4,5,6-Tetrachloro-m-xylene | 97 | 60-120 |
| Decachlorobiphenyl | 88 | 60-120 |