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Alameda County
Environmental Health

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Denis L. Brown
Shell Oil Products US

HSE - Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Subject: Soil Vapor Probe Sampling Report
Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
Agency Case No. RO0000415

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Soil Vapor Probe Sampling Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Project Manager



**CONESTOGA-ROVERS
& ASSOCIATES**

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
www.CRAworld.com

July 22, 2008

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Soil Vapor Probe Sampling Report**
Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
Agency Case No. RO0000415

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to present the recent soil vapor probe sampling results. CRA's March 13, 2008 *Subsurface Investigation Report* recommended resampling the nine soil vapor probes at the site, and Alameda County Health Care Services Agency's (ACHCSA's) April 4, 2008 letter concurred.

As was noted in a January 3, 2008 letter to ACHCSA, the proposed onsite vapor probes V-8 and V-9 could not be installed due to potential conflicts with underground utilities, and the proposed offsite groundwater monitoring wells S-10, S-11, and S-12 on the 4340 Bond Street property could not be installed because that site is currently being re-developed as a parking lot. As of June 26, 2008, work on the parking lot was still in progress. Due to reluctance of the property owner at 4320 Bond Street to allow access to their property to install wells, an access request was sent to the owners of 1724/1726/1728 High Street on May 20, 2008. As of this date, the property owners of 1724/1726/1728 High Street have not responded.

Site Location and Description

The site is a former Shell-branded service station located on the southern corner of the intersection of Foothill Boulevard and High Street in Oakland, California (Figure 1). The former station layout included three first-generation underground storage tanks (USTs) (1958 to 1971), three second-generation USTs (1971 to 1984), three third-generation gasoline USTs (1984 to 2002), a waste oil UST (removed 1992), and four product dispensers (Figure 2). Land use in the vicinity of the site is a mix of commercial and residential, with gasoline service stations occupying the northern and western corners of the intersection. The subject property is currently developed as a strip mall with a variety of commercial and retail uses.

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A summary of previous work performed at the site and additional background information is contained in CRA's March 13, 2008 *Soil Vapor Probe Installation and Sampling Report*.

Soil Vapor Probe Sampling Procedures

Personnel Present: CRA Staff Geologist Carmen Rodriguez sampled the soil vapor probes, under the supervision of California Professional Geologist Peter Schaefer.

Soil Vapor Sampling: Vapor probes V-2, V-3, V-5 through V-7, and V-10 were sampled on May 22, 2008. Sampling was attempted from vapor probes V-1, V-4 and V-11 but the samples were determined to be invalid due to sampling manifold leaks. Vapor probes V-1, V-4, and V-11 were sampled on June 26, 2008. Soil vapor sampling and leak testing were performed following Department of Toxic Substances Control's January 28, 2003 *Advisory-Active Soil Gas Investigation* guidelines. Paper towels with shaving cream were placed at sample system connections and wrapped in foil for the leak test.

Purging and sampling were conducted at a rate of approximately 200 milliliters per minute. Vapor samples were collected in 1-liter Summa™ canisters after removing approximately three purge volumes from the screen interval. Each sample was labeled, documented on a chain-of-custody, and submitted to Air Toxics, Ltd. of Folsom, California for analysis.

Soil Vapor Sample Analysis: Soil vapor samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method TO-3 (modified) and benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol and tracer compounds isobutane, butane, and propane (as tentatively identified compounds) by modified EPA Method TO-15. These tracer compounds were identified by EPA Method TO-15 as the most abundant compounds of the specific shaving cream analyzed and indicated by distinctive peaks on the petroleum hydrocarbon chromatograph, separate from TPH in the gasoline range. The laboratory analytical report is provided in Attachment A.

Soil Vapor Probe Sampling Results

Soil vapor samples were collected from the nine onsite soil vapor probes (V-1 through V-7, V-10, and V-11). TPHg was detected in the vapor samples collected from eight of the nine soil vapor probes at concentrations ranging from 750 to 22,000,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The TPHg concentrations in six of the probes (V-1 through V-6) exceeded the TPHg ESL of $29,000 \mu\text{g}/\text{m}^3$ for vapor intrusion from shallow soils on commercial sites. Benzene was detected in the vapor samples collected from vapor probes V-2 and V-3 at concentrations of 7,000 and



1,600 $\mu\text{g}/\text{m}^3$, respectively. These concentrations exceed the benzene ESL of 280 $\mu\text{g}/\text{m}^3$ for vapor intrusion from shallow soils on commercial sites.

Ethylbenzene was detected in the vapor sample collected from soil vapor probe V-2 at a concentration of 5,600 $\mu\text{g}/\text{m}^3$, which exceeds the ESL of 980 $\mu\text{g}/\text{m}^3$. Detectable concentrations of toluene were reported in the vapor samples collected from soil vapor probes V-2, V-3, and V-5, but these concentrations did not exceed the ESL for vapor intrusion from shallow soils on commercial sites.

No detectable concentrations of MTBE or TBA were reported in any of the vapor samples collected from the eight soil vapor probes.

Leak testing was performed during sampling using shaving cream to determine if ambient air was entering the Summa™ canisters during sampling by recognizing if the specific leak test compounds were identified in the chemical analysis. Isobutane (2-methyl propane) is the standard compound of the leak test (approximately 350,000 $\mu\text{g}/\text{m}^3$ in shaving cream) and was detected in samples from V-3, V-4, V-6, and V-11. The highest concentration of 22,000 $\mu\text{g}/\text{m}^3$ (9,300 parts per billion by volume) was detected in V-3, an amount over an order of magnitude below the amount in the tracer gas compound.

Table 1 summarizes the soil vapor analytical data, TPHg and benzene results are shown on Figure 2, and the laboratory analytical report is presented in Attachment A.

Conclusions and Recommendations

CRA recommends that the three proposed offsite monitoring wells and the two proposed onsite soil vapor probes be installed after the property owners of 4340 Bond Street have completed the redevelopment of their site as a parking lot. The groundwater monitoring wells will be added to the regular quarterly monitoring program and an additional round of soil vapor sampling from all of the probes is recommended following the installation of V-8 and V-9.



**CONESTOGA-ROVERS
& ASSOCIATES**

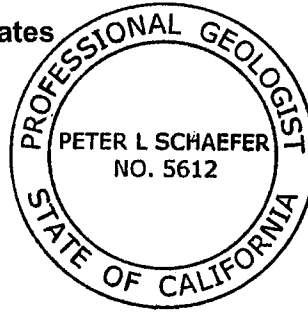
Mr. Jerry Wickham
July 22, 2008

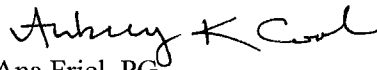
Closing

If you have any questions regarding this submittal, please call Peter Schaefer at (510) 420-3319.

Sincerely,
Conestoga-Rovers & Associates


Peter Schaefer, CEG, CHG
Project Manager




for: Ana Friel, PG
Professional Geologist

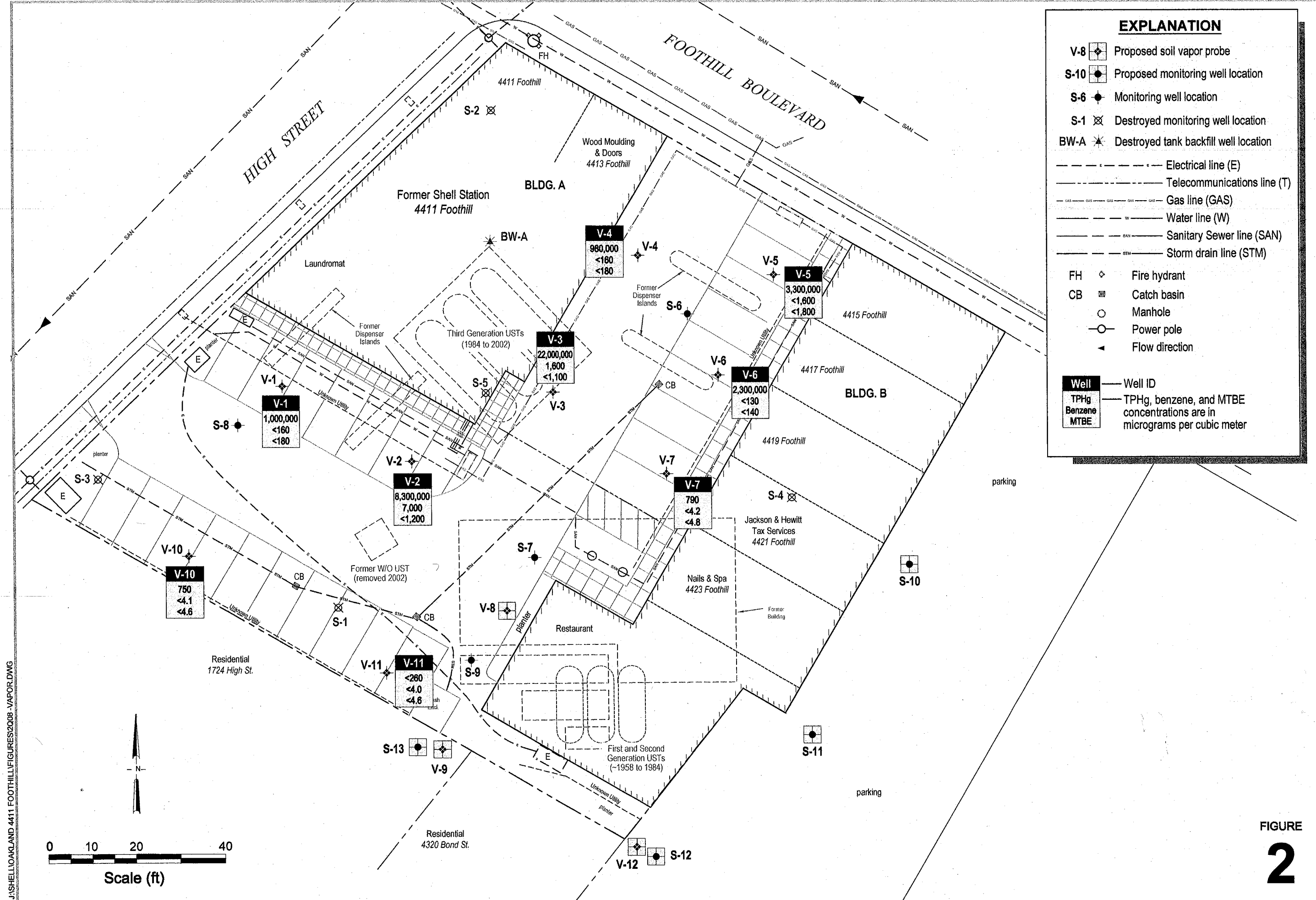
Figures: 1 - Vicinity Map
2 - Soil Vapor Chemical Concentration Map

Table: 1 - Soil Vapor Analytical Data

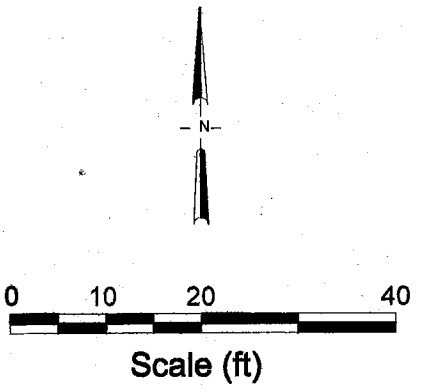
Attachment: A - Laboratory Analytical Reports

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810

\\son-s1\shared\Sonoma.Shell\Oakland 4411 Foothill\2Q08 SV sampling\Soil vapor Sampling report 4411 Foothill,Oak - July 08.doc



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Soil Vapor Chemical Concentration Map

May 22 and June 26, 2008



Former Shell Service Station
 4411 Foothill Boulevard
 Oakland, California

FIGURE 2

Table 1. Soil Vapor Analytical Data, Former Shell Service Station, 4411 Foothill Boulevard, Oakland, California

| Sample ID | Depth (fbg) | Date Sampled | TPHg ($\mu\text{g}/\text{m}^3$) | B ($\mu\text{g}/\text{m}^3$) | T ($\mu\text{g}/\text{m}^3$) | E ($\mu\text{g}/\text{m}^3$) | X ($\mu\text{g}/\text{m}^3$) | MTBE ($\mu\text{g}/\text{m}^3$) | TBA ($\mu\text{g}/\text{m}^3$) | | |
|-------------|-------------|--------------|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|----------------------------------|--|--|
| V-1 | 4.5-4.8 | 14-Jan-08 | 16,000,000 | <1,200 | <1,400 | <1,700 | <5,000 | <5,500 | <4,600 | | |
| V-1 | 4.5-4.8 | 26-Jun-08 | 1,000,000 | <160 | <190 | <220 | <220 | <180 | <610 | | |
| V-2 | 4.5-4.8 | 14-Jan-08 | 15,000,000 | 9,000 | <1,100 | 20,000 | 7,700 | <4,100 | <3,500 | | |
| V-2 | 4.5-4.8 | 22-May-08 | 8,300,000 | 7,000 | 2,400 | 5,600 | <1,400 | <1,200 | <4,000 | | |
| V-3 | 4.5-4.8 | 14-Jan-08 | 20,000,000 | 3,800 | <2,800 | <3,300 | <9,800 | <11,000 | <9,100 | | |
| V-3 | 4.5-4.8 | 22-May-08 | 22,000,000 | 1,600 | 1,700 | <1,300 | <1,300 | <1,100 | <3,700 | | |
| V-4 | 4.5-4.8 | 14-Jan-08 | 1,300,000 | <150 | <180 | <210 | <620 | <680 | <570 | | |
| V-4 | 4.5-4.8 | 26-Jun-08 | 980,000 | <160 | <190 | <220 | <220 | <180 | <620 | | |
| V-5 | 4.5-4.8 | 14-Jan-08 | 2,500,000 | <290 | <340 | <400 | <1,190 | <1,300 | <1,100 | | |
| V-5 | 4.5-4.8 | 22-May-08 | 3,300,000 | <1,600 | 3,100 | <2,200 | <2,200 | <1,800 | <6,100 | | |
| V-6 | 4.5-4.8 | 14-Jan-08 | 15,000,000 | 9,100 | <270 | <310 | <930 | <1,000 | <860 | | |
| V-6 | 4.5-4.8 | 22-May-08 | 2,300,000 | <130 | <150 | <180 | <180 | <140 | <490 | | |
| V-7 | 4.5-4.8 | 14-Jan-08 | 170,000 | <19 | <22 | <25 | <76 | <84 | <71 | | |
| V-7 | 4.5-4.8 | 22-May-08 | 790 | <4.2 | <5.0 | <5.7 | <5.7 | <4.8 | <16 | | |
| V-10 | 4.5-4.8 | 14-Jan-08 | Unable to sample due to water in sample tube | | | | | | | | |
| V-10 | 4.5-4.8 | 22-May-08 | 750 | <4.1 | <4.9 | <5.6 | <5.6 | <4.6 | <16 | | |
| V-11 | 4.5-4.8 | 14-Jan-08 | 18,000 | <2.2 | 5.1 | <3.0 | <8.9 | <9.8 | <8.2 | | |
| V-11 | 4.5-4.8 | 26-Jun-08 | <260 | <4.0 | <4.8 | <5.5 | <5.5 | <4.6 | <15 | | |
| Ambient Air | NA | 14-Jan-08 | <17,000 | <2.4 | 4.1 | <3.2 | <9.7 | <11 | <9.0 | | |

| | | | | | | | |
|--|---------------|------------|----------------|--------------|---------------|---------------|-----------|
| SFBRWQCB ESL's for Commercial Land Use | 29,000 | 280 | 180,000 | 3,300 | 58,000 | 31,000 | NA |
| Shallow Soil Gas * Residential Land Use | 10,000 | 84 | 63,000 | 980 | 21,000 | 9,400 | NA |

Abbreviations and Notes:

fbg = Feet below grade

 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

<x = Not detected at reporting limit x

--- = Not analyzed

TPHg = Total petroleum hydrocarbons as gasoline by Modified EPA Method TO-3 GC/FID

BTEX = Benzene, toluene, ethylbenzene, and xylenes by Modified EPA Method TO-15

Methyl tertiary butyl ether (MTBE) and tertiary butyl alcohol (TBA) by Modified EPA Method TO-15

NA = Not applicable or not available

Results in **bold** exceed Environmental Screening Level for commercial land use

* From Table E of SFBRWQCB ESLs. Ref: Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final - November 2007.

Attachment A
Laboratory Analytical Reports



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

**(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805566A

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-008 |
| DATE RECEIVED: | 05/28/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 06/10/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------------|-------------------------------|---------------------------|
| 01A | V-10 | Modified TO-15/TICs | 6.5 "Hg | 15 psi |
| 02A | V-2 | Modified TO-15/TICs | 7.0 "Hg | 15 psi |
| 03A | V-6 | Modified TO-15/TICs | 0.0 "Hg | 15 psi |
| 04A | V-7 | Modified TO-15/TICs | 7.0 "Hg | 15 psi |
| 05A | V-3 | Modified TO-15/TICs | 5.0 "Hg | 15 psi |
| 06A | V-5 | Modified TO-15/TICs | 6.0 "Hg | 15 psi |
| 07A | Lab Blank | Modified TO-15/TICs | NA | NA |
| 08A | CCV | Modified TO-15/TICs | NA | NA |
| 09A | LCS | Modified TO-15/TICs | NA | NA |

CERTIFIED BY: *Sandra A. Fumara*

DATE: 06/10/08

Laboratory Director

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: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 0805566A

Six 1 Liter Summa Canister (100% Certified) samples were received on May 28, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------|----------------------------|---|
| Daily CCV | +/- 30% Difference | <= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples V-6, V-3 and V-5 due to the presence of high level non-target species.

The recovery of surrogate 1,2-Dichloroethane-d4 in samples V-6 and V-3 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

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

J - Estimated value.

- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: V-10

Lab ID#: 0805566A-01A

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|------------|---------------|----------------|
| Butane | 106-97-8 | 5.0% | 11 |
| Propane, 2-methyl- | 75-28-5 | 38% | 970 |
| Propane | 74-98-6 | 9.0% | 68 |

Client Sample ID: V-2

Lab ID#: 0805566A-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---------------|----------------------|------------------|-----------------------|-------------------|
| Benzene | 330 | 2200 | 1000 | 7000 |
| Toluene | 330 | 630 | 1200 | 2400 |
| Ethyl Benzene | 330 | 1300 | 1400 | 5600 |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|----------|------------|---------------|----------------|
| Butane | 106-97-8 | 42% | 2100 |

Client Sample ID: V-6

Lab ID#: 0805566A-03A

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|------------|---------------|----------------|
| Butane | 106-97-8 | 72% | 3700 |
| Propane, 2-methyl- | 75-28-5 | 9.0% | 1900 |

Client Sample ID: V-7

Lab ID#: 0805566A-04A

No Detections Were Found.

Client Sample ID: V-3

Lab ID#: 0805566A-05A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------|----------------------|------------------|-----------------------|-------------------|
|----------|----------------------|------------------|-----------------------|-------------------|



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: V-3

Lab ID#: 0805566A-05A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------|-------------------|---------------|--------------------|----------------|
| Benzene | 300 | 500 | 970 | 1600 |
| Toluene | 300 | 460 | 1100 | 1700 |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|------------|---------------|-------------|
| Butane | 106-97-8 | 72% | 53000 |
| Propane, 2-methyl- | 75-28-5 | 40% | 9300 |

Client Sample ID: V-5

Lab ID#: 0805566A-06A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|----------|-------------------|---------------|--------------------|----------------|
| Toluene | 500 | 820 | 1900 | 3100 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-10

Lab ID#: 0805566A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|-----------------|
| File Name: | t060223 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.58 | Date of Analysis: | 6/3/08 03:46 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 1.3 | Not Detected | 4.6 | Not Detected |
| Benzene | 1.3 | Not Detected | 4.1 | Not Detected |
| Toluene | 1.3 | Not Detected | 4.9 | Not Detected |
| Ethyl Benzene | 1.3 | Not Detected | 5.6 | Not Detected |
| m,p-Xylene | 1.3 | Not Detected | 5.6 | Not Detected |
| o-Xylene | 1.3 | Not Detected | 5.6 | Not Detected |
| tert-Butyl alcohol | 5.2 | Not Detected | 16 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|------------|---------------|-------------|
| Butane | 106-97-8 | 5.0% | 11 |
| Propane, 2-methyl- | 75-28-5 | 38% | 970 |
| Propane | 74-98-6 | 9.0% | 68 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 94 | 70-130 |
| 1,2-Dichloroethane-d4 | 122 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-2

Lab ID#: 0805566A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|-----------------|
| File Name: | t060226 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 660 | Date of Analysis: | 6/3/08 05:54 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 330 | Not Detected | 1200 | Not Detected |
| Benzene | 330 | 2200 | 1000 | 7000 |
| Toluene | 330 | 630 | 1200 | 2400 |
| Ethyl Benzene | 330 | 1300 | 1400 | 5600 |
| m,p-Xylene | 330 | Not Detected | 1400 | Not Detected |
| o-Xylene | 330 | Not Detected | 1400 | Not Detected |
| tert-Butyl alcohol | 1300 | Not Detected | 4000 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | 42% | 2100 |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 101 | 70-130 |
| 1,2-Dichloroethane-d4 | 130 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-6

Lab ID#: 0805566A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|-----------------|
| File Name: | 1060224 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 80.8 | Date of Analysis: | 6/3/08 04:24 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 40 | Not Detected | 140 | Not Detected |
| Benzene | 40 | Not Detected | 130 | Not Detected |
| Toluene | 40 | Not Detected | 150 | Not Detected |
| Ethyl Benzene | 40 | Not Detected | 180 | Not Detected |
| m,p-Xylene | 40 | Not Detected | 180 | Not Detected |
| o-Xylene | 40 | Not Detected | 180 | Not Detected |
| tert-Butyl alcohol | 160 | Not Detected | 490 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|------------|---------------|--------------|
| Butane | 106-97-8 | 72% | 3700 |
| Propane, 2-methyl- | 75-28-5 | 9.0% | 1900 |
| Propane | 74-98-6 | NA | Not Detected |

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 104 | 70-130 |
| 1,2-Dichloroethane-d4 | 217 Q | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-7

Lab ID#: 0805566A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|---------------------|----------------|----------------------------|------------------------|
| File Name: | t060225 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.64 | Date of Analysis: | 6/3/08 05:12 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 1.3 | Not Detected | 4.8 | Not Detected |
| Benzene | 1.3 | Not Detected | 4.2 | Not Detected |
| Toluene | 1.3 | Not Detected | 5.0 | Not Detected |
| Ethyl Benzene | 1.3 | Not Detected | 5.7 | Not Detected |
| m,p-Xylene | 1.3 | Not Detected | 5.7 | Not Detected |
| o-Xylene | 1.3 | Not Detected | 5.7 | Not Detected |
| tert-Butyl alcohol | 5.3 | Not Detected | 16 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | NA | Not Detected |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 97 | 70-130 |
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-3

Lab ID#: 0805566A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|-----------------|
| File Name: | 1060227 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 605 | Date of Analysis: | 6/3/08 06:35 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 300 | Not Detected | 1100 | Not Detected |
| Benzene | 300 | 500 | 970 | 1600 |
| Toluene | 300 | 460 | 1100 | 1700 |
| Ethyl Benzene | 300 | Not Detected | 1300 | Not Detected |
| m,p-Xylene | 300 | Not Detected | 1300 | Not Detected |
| o-Xylene | 300 | Not Detected | 1300 | Not Detected |
| tert-Butyl alcohol | 1200 | Not Detected | 3700 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|------------|---------------|--------------|
| Butane | 106-97-8 | 72% | 53000 |
| Propane, 2-methyl- | 75-28-5 | 40% | 9300 |
| Propane | 74-98-6 | NA | Not Detected |

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 96 | 70-130 |
| 1,2-Dichloroethane-d4 | 159 Q | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-5

Lab ID#: 0805566A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|-----------------|
| File Name: | t060229 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 1010 | Date of Analysis: | 6/3/08 08:04 AM |

| Compound | Rot. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 500 | Not Detected | 1800 | Not Detected |
| Benzene | 500 | Not Detected | 1600 | Not Detected |
| Toluene | 500 | 820 | 1900 | 3100 |
| Ethyl Benzene | 500 | Not Detected | 2200 | Not Detected |
| m,p-Xylene | 500 | Not Detected | 2200 | Not Detected |
| o-Xylene | 500 | Not Detected | 2200 | Not Detected |
| tert-Butyl alcohol | 2000 | Not Detected | 6100 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | NA | Not Detected |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 98 | 70-130 |
| 1,2-Dichloroethane-d4 | 128 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805566A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|-----------------|
| File Name: | t060206 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/2/08 01:04 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected |
| Toluene | 0.50 | Not Detected | 1.9 | Not Detected |
| Ethyl Benzene | 0.50 | Not Detected | 2.2 | Not Detected |
| m,p-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| o-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| tert-Butyl alcohol | 2.0 | Not Detected | 6.1 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | NA | Not Detected |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 95 | 70-130 |
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805566A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------------|--|
| File Name: | t060204 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/2/08 10:54 AM |

| Compound | %Recovery |
|-------------------------|------------------|
| Methyl tert-butyl ether | 94 |
| Benzene | 90 |
| Toluene | 96 |
| Ethyl Benzene | 96 |
| m,p-Xylene | 99 |
| o-Xylene | 99 |
| tert-Butyl alcohol | 97 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| Toluene-d8 | 101 | 70-130 |
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805566A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|-----------------|
| File Name: | t060203 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/2/08 10:06 AM |

| Compound | %Recovery |
|-------------------------|-----------|
| Methyl tert-butyl ether | 90 |
| Benzene | 88 |
| Toluene | 100 |
| Ethyl Benzene | 93 |
| m,p-Xylene | 94 |
| o-Xylene | 96 |
| tert-Butyl alcohol | 94 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 117 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

**(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805566B

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-008 |
| DATE RECEIVED: | 05/28/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 06/09/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------------|---------------|-------------------------------|---------------------------|
| 01A | V-10 | Modified TO-3 | 6.5 "Hg | 15 psi |
| 02A | V-2 | Modified TO-3 | 7.0 "Hg | 15 psi |
| 03A | V-6 | Modified TO-3 | 0.0 "Hg | 15 psi |
| 04A | V-7 | Modified TO-3 | 7.0 "Hg | 15 psi |
| 05A | V-3 | Modified TO-3 | 5.0 "Hg | 15 psi |
| 05AA | V-3 Lab Duplicate | Modified TO-3 | 5.0 "Hg | 15 psi |
| 06A | V-5 | Modified TO-3 | 6.0 "Hg | 15 psi |
| 07A | Lab Blank | Modified TO-3 | NA | NA |
| 08A | LCS | Modified TO-3 | NA | NA |

CERTIFIED BY:

Laboratory Director

DATE: 06/09/08

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: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-3
Conestoga-Rovers Associates (CRA)
Workorder# 0805566B

Six 1 Liter Summa Canister (100% Certified) samples were received on May 28, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L. Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-3</i> | <i>ATL Modifications</i> |
|--------------------------------------|---|---|
| Daily Calibration Standard Frequency | Prior to sample analysis and every 4 - 6 hrs | Prior to sample analysis and after the analytical batch <=/ 20 samples |
| Initial Calibration Calculation | 4-point calibration using a linear regression model | 5-point calibration using average Response Factor |
| Initial Calibration Frequency | Weekly | When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation |
| Moisture Control | Nafion system | Sorbent system |
| Minimum Detection Limit (MDL) | Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard | 40 CFR Pt. 136 App. B |
| Preparation of Standards | Levels achieved through dilution of gas mixture | Levels achieved through loading various volumes of the gas mixture |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The recovery of surrogate Fluorobenzene in samples V-2, V-3 and V-3 Lab Duplicate was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: V-10

Lab ID#: 0805566B-01A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.064 | 0.26 | 0.18 | 0.75 |

Client Sample ID: V-2

Lab ID#: 0805566B-02A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 6.6 | 27 | 2000 | 8300 |

Client Sample ID: V-6

Lab ID#: 0805566B-03A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 5.0 | 21 | 560 | 2300 |

Client Sample ID: V-7

Lab ID#: 0805566B-04A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.066 | 0.27 | 0.19 | 0.79 |

Client Sample ID: V-3

Lab ID#: 0805566B-05A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 8.1 | 33 | 5300 | 22000 |

Client Sample ID: V-3 Lab Duplicate

Lab ID#: 0805566B-05AA

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 8.1 | 33 | 5300 | 22000 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID**

Client Sample ID: V-5

Lab ID#: 0805566B-06A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| TPH (Gasoline Range) | 2.5 | 10 | 810 | 3300 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-10

Lab ID#: 0805566B-01A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053018 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.58 | Date of Analysis: | 5/30/08 02:22 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|----------------------|----------------------|------------------|------------------|
| TPH (Gasoline Range) | 0.064 | 0.26 | 0.18 | 0.75 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|------------------|
| Fluorobenzene (FID) | 76 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-2

Lab ID#: 0805566B-02A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053020 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 264 | Date of Analysis: | 5/30/08 03:25 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|----------------------|----------------------|------------------|------------------|
| TPH (Gasoline Range) | 6.6 | 27 | 2000 | 8300 |

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|------------------|
| Fluorobenzene (FID) | 184 Q | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-6

Lab ID#: 0805566B-03A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053021 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 202 | Date of Analysis: | 5/30/08 04:29 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 5.0 | 21 | 560 | 2300 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 99 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-7

Lab ID#: 0805566B-04A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053022 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.64 | Date of Analysis: | 5/30/08 05:38 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.066 | 0.27 | 0.19 | 0.79 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 79 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-3

Lab ID#: 0805566B-05A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053025 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 323 | Date of Analysis: | 5/30/08 07:08 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 8.1 | 33 | 5300 | 22000 |

Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 152 Q | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-3 Lab Duplicate

Lab ID#: 0805566B-05AA

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053026 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 323 | Date of Analysis: | 5/30/08 07:38 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|----------------------|----------------------|------------------|------------------|
| TPH (Gasoline Range) | 8.1 | 33 | 5300 | 22000 |

Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|------------------|
| Fluorobenzene (FID) | 152 Q | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-5

Lab ID#: 0805566B-06A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053024 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 101 | Date of Analysis: | 5/30/08 06:38 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 2.5 | 10 | 810 | 3300 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 110 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805566B-07A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053009 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/30/08 08:13 AM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.025 | 0.10 | Not Detected | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 94 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805566B-08A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 6053030 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/30/08 09:55 PM |

| Compound | %Recovery |
|----------------------|-----------|
| TPH (Gasoline Range) | 84 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 97 | 75-150 |

LAB: TA

- TA - Irvine, California
- TA - Moraga, California
- TA - Sacramento, California
- TA - Nashville, Tennessee
- Oklahoma
- Other *As Told*



SHELL Chain Of Custody Record

0805566

NAME OF PERSON TO BILL: Denis Brown

CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (IF ONLY): 9 8 9 9 5 7 4 6

DATE: 5/22/09

PAGE: 1 of 2

SAMPLING COMPANY: Conestoga-Rovers & Associates (CRA) **LOG CODE:** CRAW

ADDRESS: 5900 Hollis St, Suite A, Emeryville, CA 94608

CLIENT ADDRESS: 4411 Foothills Blvd, Oakland, CA 94612

CLIENT CONTACT: Ballard, Felicia, CRA, Sonoma, 707 933 2360, sonomaedf@crawworld.com

LAB USE ONLY: Carner, Rodriguez

TAT (STD IS 10 BUSINESS DAYS / RUSHING CALENDAR DAYS): STD 5 DAY 7 DAY 2 DAY 4 HOURS RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

| | | | | | | |
|-------------|----------------------------|--------------|--------------|-------------|--------------------|-----------------------------|
| TPHd (TO-3) | TPHd - Extractable (8010M) | BTEX (TO-16) | MTBE (TO-15) | TBA (TO-18) | O2, CO2, & Methane | Isoprene, butane, & propene |
|-------------|----------------------------|--------------|--------------|-------------|--------------------|-----------------------------|

SPECIAL INSTRUCTIONS OR NOTES:

- EDD NOT NEEDED
- SHELL CONTRACT RATE APPLIES
- STATE REIMB RATE APPLIES
- RECEIPT VERIFICATION REQUESTED

FIELD NOTES:
Container/Preservative or P.D Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

| SAMPLE USE ONLY | Field Sample Identification | SAMPLING | | MATRIX | NO. OF CONT. | TPHd (TO-3) | TPHd - Extractable (8010M) | BTEX (TO-16) | MTBE (TO-15) | TBA (TO-18) | O2, CO2, & Methane | Isoprene, butane, & propene | TEMPERATURE ON RECEIPT C° |
|-----------------|-----------------------------|----------|------|--------|--------------|-------------|----------------------------|--------------|--------------|-------------|--------------------|-----------------------------|---------------------------|
| | | DATE | TIME | | | | | | | | | | |
| O1A | 0U-10 | 5/22 | 1257 | Air | 1 | X | X | X | X | X | X | X | 36410 |
| | V-1 | | 1322 | | | | | | | | | | 36413 do not analyze |
| O2A | V-2 | | 1409 | | | | | | | | | | 36548 |
| O3A | V-6 | | 1533 | | | | | | | | | | 34090 |
| | V-4 | | 1606 | | | | | | | | | | 36507 do not analyze |
| O4A | V-7 | | 1657 | | | | | | | | | | 36479 |
| O5A | V-3 | | 1742 | | | | | | | | | | 13387 |
| | V-11 | | 1824 | | | | | | | | | | 25281 do not analyze |
| O6A | V-5 | | 1912 | | | | | | | | | | 36375 |
| | Purge 2 | | | | | | | | | | | | 1421 |

Requested by (Signature): Carner Rodriguez **Received by (Signature):** Monica Bressan **Date:** 5/22/09 **Time:** 2020

Requested by (Signature): **Received by (Signature):** **Date:** **Time:**

Requested by (Signature): **Received by (Signature):** **Date:** **Time:**

CUSTODY SEAL INTACT?
Y N (NONE) TEMP *MT*



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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Hours 8:00 A.M to 6:00 P.M. Pacific**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805566C

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-008 |
| DATE RECEIVED: | 05/28/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 06/10/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|--------------------|----------------------|-------------------------------|---------------------------|
| 01A | V-10 | Modified ASTM D-1946 | 6.5 "Hg | 15 psi |
| 01AA | V-10 Lab Duplicate | Modified ASTM D-1946 | 6.5 "Hg | 15 psi |
| 02A | V-2 | Modified ASTM D-1946 | 7.0 "Hg | 15 psi |
| 03A | V-6 | Modified ASTM D-1946 | 0.0 "Hg | 15 psi |
| 04A | V-7 | Modified ASTM D-1946 | 7.0 "Hg | 15 psi |
| 05A | V-3 | Modified ASTM D-1946 | 5.0 "Hg | 15 psi |
| 06A | V-5 | Modified ASTM D-1946 | 6.0 "Hg | 15 psi |
| 07A | Lab Blank | Modified ASTM D-1946 | NA | NA |
| 08A | LCS | Modified ASTM D-1946 | NA | NA |

CERTIFIED BY: *Arinda J. Freeman*

Laboratory Director

DATE: 06/09/08

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: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
Conestoga-Rovers Associates (CRA)
Workorder# 0805566C

Six 1 Liter Summa Canister (100% Certified) samples were received on May 28, 2008. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>ASTM D-1946</i> | <i>ATL Modifications</i> |
|-------------------------|--|--|
| Calibration | A single point calibration is performed using a reference standard closely matching the composition of the unknown. | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples. |
| Reference Standard | The composition of any reference standard must be known to within 0.01 mol % for any component. | The standards used by ATL are blended to a $\geq 95\%$ accuracy. |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL. | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix. |
| Precision | Precision requirements established at each concentration level. | Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL. |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

- 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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: V-10

Lab ID#: 0805566C-01A

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.26 | 21 |
| Carbon Dioxide | 0.026 | 0.043 |

Client Sample ID: V-10 Lab Duplicate

Lab ID#: 0805566C-01AA

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.26 | 21 |
| Carbon Dioxide | 0.026 | 0.043 |

Client Sample ID: V-2

Lab ID#: 0805566C-02A

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.26 | 2.0 |
| Methane | 0.00026 | 0.46 |
| Carbon Dioxide | 0.026 | 9.8 |

Client Sample ID: V-6

Lab ID#: 0805566C-03A

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.20 | 10 |
| Methane | 0.00020 | 2.0 |
| Carbon Dioxide | 0.020 | 5.3 |

Client Sample ID: V-7

Lab ID#: 0805566C-04A

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.26 | 13 |
| Carbon Dioxide | 0.026 | 4.2 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: V-3

Lab ID#: 0805566C-05A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Oxygen | 0.24 | 4.3 |
| Methane | 0.00024 | 2.8 |
| Carbon Dioxide | 0.024 | 8.2 |

Client Sample ID: V-5

Lab ID#: 0805566C-06A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Oxygen | 0.25 | 1.3 |
| Methane | 0.00025 | 3.4 |
| Carbon Dioxide | 0.025 | 7.4 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-10

Lab ID#: 0805566C-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052916 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.58 | Date of Analysis: | 5/29/08 11:25 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|--------------|
| Oxygen | 0.26 | 21 |
| Methane | 0.00026 | Not Detected |
| Carbon Dioxide | 0.026 | 0.043 |

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-10 Lab Duplicate

Lab ID#: 0805566C-01AA

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052917 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.58 | Date of Analysis: | 5/29/08 12:50 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|--------------|
| Oxygen | 0.26 | 21 |
| Methane | 0.00026 | Not Detected |
| Carbon Dioxide | 0.026 | 0.043 |

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-2

Lab ID#: 0805566C-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052918 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.64 | Date of Analysis: | 5/29/08 01:20 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.26 | 2.0 |
| Methane | 0.00026 | 0.46 |
| Carbon Dioxide | 0.026 | 9.8 |

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-6

Lab ID#: 0805566C-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052919 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.02 | Date of Analysis: | 5/29/08 02:04 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.20 | 10 |
| Methane | 0.00020 | 2.0 |
| Carbon Dioxide | 0.020 | 5.3 |

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-7

Lab ID#: 0805566C-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052920 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.64 | Date of Analysis: | 5/29/08 02:49 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|--------------|
| Oxygen | 0.26 | 13 |
| Methane | 0.00026 | Not Detected |
| Carbon Dioxide | 0.026 | 4.2 |

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-3

Lab ID#: 0805566C-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052921 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.42 | Date of Analysis: | 5/29/08 03:08 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.24 | 4.3 |
| Methane | 0.00024 | 2.8 |
| Carbon Dioxide | 0.024 | 8.2 |

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-5

Lab ID#: 0805566C-06A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052922 | Date of Collection: | 5/22/08 |
| Dil. Factor: | 2.53 | Date of Analysis: | 5/29/08 03:33 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|------------|
| Oxygen | 0.25 | 1.3 |
| Methane | 0.00025 | 3.4 |
| Carbon Dioxide | 0.025 | 7.4 |

Container Type: 1 Liter Summa Canister (100% Certified)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805566C-07A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052902 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/29/08 12:39 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------------|----------------|--------------|
| Oxygen | 0.10 | Not Detected |
| Methane | 0.00010 | Not Detected |
| Carbon Dioxide | 0.010 | Not Detected |

Container Type: NA - Not Applicable



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Client Sample ID: LCS

Lab ID#: 0805566C-08A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 3052926 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 5/29/08 05:33 PM |

| Compound | %Recovery |
|----------------|-----------|
| Oxygen | 97 |
| Methane | 99 |
| Carbon Dioxide | 94 |

Container Type: NA - Not Applicable



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- Laboratory Narrative;
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- Chain of Custody (copy).

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806354BR1

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-2008 |
| DATE RECEIVED: | 06/18/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 06/26/2008 | | |
| DATE REISSUED: | 07/14/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------|-------------------------------|---------------------------|
| 01A | V-4 | Modified TO-3 | 6.5 "Hg | 15 psi |
| 02A | V-1 | Modified TO-3 | 6.0 "Hg | 15 psi |
| 03A | V-11 | Modified TO-3 | 6.0 "Hg | 15 psi |
| 04A | Lab Blank | Modified TO-3 | NA | NA |
| 05A | LCS | Modified TO-3 | NA | NA |

CERTIFIED BY: *Sandra J. Freeman*
 Laboratory Director

DATE: 07/14/08

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: 07/01/07, Expiration date: 06/30/08
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-3
Conestoga-Rovers Associates (CRA)
Workorder# 0806354BR1

Three 1 Liter Summa Canister (100% Certified) samples were received on June 18, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-3</i> | <i>ATL Modifications</i> |
|--------------------------------------|---|---|
| Daily Calibration Standard Frequency | Prior to sample analysis and every 4 - 6 hrs | Prior to sample analysis and after the analytical batch ≤ 20 samples |
| Initial Calibration Calculation | 4-point calibration using a linear regression model | 5-point calibration using average Response Factor |
| Initial Calibration Frequency | Weekly | When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation |
| Moisture Control | Nafion system | Sorbent system |
| Minimum Detection Limit (MDL) | Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard | 40 CFR Pt. 136 App. B |
| Preparation of Standards | Levels achieved through dilution of gas mixture | Levels achieved through loading various volumes of the gas mixture |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

THE WORK ORDER WAS REISSUED ON JULY 14, 2008 TO CORRECT IDENTIFICATION OF THE FOLLOWING SAMPLES V-4, V-1 AND V-11 PER CLIENT REQUEST.

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: V-4

Lab ID#: 0806354BR1-01A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|----------------------|----------------------|------------------|------------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 240 | 980 |

Client Sample ID: V-1

Lab ID#: 0806354BR1-02A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|----------------------|----------------------|------------------|------------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 250 | 1000 |

Client Sample ID: V-11

Lab ID#: 0806354BR1-03A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-4

Lab ID#: 0806354BR1-01A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062107 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 12.9 | Date of Analysis: | 6/21/08 02:09 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 240 | 980 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 110 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-1

Lab ID#: 0806354BR1-02A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062106 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 12.6 | Date of Analysis: | 6/21/08 01:30 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 250 | 1000 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 114 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: V-11

Lab ID#: 0806354BR1-03A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062105 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 2.53 | Date of Analysis: | 6/21/08 12:44 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.063 | 0.26 | Not Detected | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 85 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806354BR1-04A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|---------------------|---------|----------------------------|------------------|
| File Name: | d062102 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/21/08 10:45 AM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| TPH (Gasoline Range) | 0.025 | 0.10 | Not Detected | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|------------------|--------------------------|
| Fluorobenzene (FID) | 82 | 75-150 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0806354BR1-05A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062112 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/21/08 05:28 PM |

| Compound | %Recovery |
|----------------------|-----------|
| TPH (Gasoline Range) | 84 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 104 | 75-150 |



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806354AR1

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-2008 |
| DATE RECEIVED: | 06/18/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 07/01/2008 | | |
| DATE REISSUED: | 07/15/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------------|-------------------------------|---------------------------|
| 01A | V-4 | Modified TO-15/TICs | 6.5 "Hg | 15 psi |
| 02A | V-1 | Modified TO-15/TICs | 6.0 "Hg | 15 psi |
| 03A | V-11 | Modified TO-15/TICs | 6.0 "Hg | 15 psi |
| 04A | Lab Blank | Modified TO-15/TICs | NA | NA |
| 05A | CCV | Modified TO-15/TICs | NA | NA |
| 06A | LCS | Modified TO-15/TICs | NA | NA |

CERTIFIED BY: *Sandra J. Furrer*

DATE: 07/15/08

Laboratory Director

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: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 0806354AR1

Three 1 Liter Summa Canister (100% Certified) samples were received on June 18, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------|----------------------------|---|
| Daily CCV | <= 30% Difference | <= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated. |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples V-4 and V-1 due to the presence of high level non-target species.

The recovery of surrogate 1,2-Dichloroethane-d4 in samples V-4 and V-1 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

PER CLIENT REQUEST, THE WORKORDER WAS REISSUED ON 7/15/08 TO CHANGE IDENTIFICATION OF SAMPLES V-4, V-1 AND V-11 TO REFLECT THE AMENDED COC.

THE PRECEDING NARRATIVES HAVE BEEN AMENDED TO REFLECT THE NEW CHANGES.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



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**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: V-4

Lab ID#: 0806354AR1-01A

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|-------------------|----------------------|------------------------|
| Butane | 106-97-8 | 53% | 610 N J |
| Propane, 2-methyl- | 75-28-5 | 50% | 790 N J |

Client Sample ID: V-1

Lab ID#: 0806354AR1-02A

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------------|-------------------|----------------------|------------------------|
| Butane | 106-97-8 | 72% | 460 N J |

Client Sample ID: V-11

Lab ID#: 0806354AR1-03A

No Detections Were Found.



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Client Sample ID: V-4

Lab ID#: 0806354AR1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | t062615 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 103 | Date of Analysis: | 6/26/08 09:17 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 52 | Not Detected | 180 | Not Detected |
| Benzene | 52 | Not Detected | 160 | Not Detected |
| Toluene | 52 | Not Detected | 190 | Not Detected |
| Ethyl Benzene | 52 | Not Detected | 220 | Not Detected |
| m,p-Xylene | 52 | Not Detected | 220 | Not Detected |
| o-Xylene | 52 | Not Detected | 220 | Not Detected |
| tert-Butyl alcohol | 210 | Not Detected | 620 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|--------------------|------------|---------------|--------------|
| Butane | 106-97-8 | 53% | 610 N J |
| Propane, 2-methyl- | 75-28-5 | 50% | 790 N J |
| Propane | 74-98-6 | NA | Not Detected |

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 106 | 70-130 |
| 1,2-Dichloroethane-d4 | 152 Q | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



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Client Sample ID: V-1

Lab ID#: 0806354AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | t062617 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 101 | Date of Analysis: | 6/26/08 10:47 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 50 | Not Detected | 180 | Not Detected |
| Benzene | 50 | Not Detected | 160 | Not Detected |
| Toluene | 50 | Not Detected | 190 | Not Detected |
| Ethyl Benzene | 50 | Not Detected | 220 | Not Detected |
| m,p-Xylene | 50 | Not Detected | 220 | Not Detected |
| o-Xylene | 50 | Not Detected | 220 | Not Detected |
| tert-Butyl alcohol | 200 | Not Detected | 610 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | 72% | 460 N J |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 105 | 70-130 |
| 1,2-Dichloroethane-d4 | 153 Q | 70-130 |
| 4-Bromofluorobenzene | 95 | 70-130 |



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Client Sample ID: V-11

Lab ID#: 0806354AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | t062618 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 2.53 | Date of Analysis: | 6/26/08 11:44 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 1.3 | Not Detected | 4.6 | Not Detected |
| Benzene | 1.3 | Not Detected | 4.0 | Not Detected |
| Toluene | 1.3 | Not Detected | 4.8 | Not Detected |
| Ethyl Benzene | 1.3 | Not Detected | 5.5 | Not Detected |
| m,p-Xylene | 1.3 | Not Detected | 5.5 | Not Detected |
| o-Xylene | 1.3 | Not Detected | 5.5 | Not Detected |
| tert-Butyl alcohol | 5.1 | Not Detected | 15 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | NA | Not Detected |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 97 | 70-130 |
| 1,2-Dichloroethane-d4 | 112 | 70-130 |
| 4-Bromofluorobenzene | 94 | 70-130 |



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Client Sample ID: Lab Blank

Lab ID#: 0806354AR1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|---------|---|
| File Name: | t062606 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/08 12:15 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected |
| Toluene | 0.50 | Not Detected | 1.9 | Not Detected |
| Ethyl Benzene | 0.50 | Not Detected | 2.2 | Not Detected |
| m,p-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| o-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| tert-Butyl alcohol | 2.0 | Not Detected | 6.1 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | NA | Not Detected |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 95 | 70-130 |
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806354AR1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | t062605 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/08 11:19 AM |

| Compound | %Recovery |
|-------------------------|-----------|
| Methyl tert-butyl ether | 103 |
| Benzene | 101 |
| Toluene | 107 |
| Ethyl Benzene | 98 |
| m,p-Xylene | 96 |
| o-Xylene | 96 |
| tert-Butyl alcohol | 104 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 106 | 70-130 |
| 1,2-Dichloroethane-d4 | 122 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |



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Client Sample ID: LCS

Lab ID#: 0806354AR1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | t062604 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/08 10:37 AM |

| Compound | %Recovery |
|-------------------------|-----------|
| Methyl tert-butyl ether | 108 |
| Benzene | 106 |
| Toluene | 118 |
| Ethyl Benzene | 99 |
| m,p-Xylene | 97 |
| o-Xylene | 97 |
| tert-Butyl alcohol | 109 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 107 | 70-130 |
| 1,2-Dichloroethane-d4 | 127 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |



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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806354CR1

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-2008 |
| DATE RECEIVED: | 06/18/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 06/26/2008 | | |
| DATE REISSUED: | 07/15/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------------|-------------------------------|---------------------------|
| 01A | V-4 | Modified ASTM D-1946 | 6.5 "Hg | 15 psi |
| 02A | V-1 | Modified ASTM D-1946 | 6.0 "Hg | 15 psi |
| 03A | V-11 | Modified ASTM D-1946 | 6.0 "Hg | 15 psi |
| 04A | Lab Blank | Modified ASTM D-1946 | NA | NA |
| 05A | LCS | Modified ASTM D-1946 | NA | NA |

CERTIFIED BY: *Sandra J. Freeman*

DATE: 07/15/08

Laboratory Director

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: 07/01/07, Expiration date: 06/30/08
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LABORATORY NARRATIVE
Modified ASTM D-1946
Conestoga-Rovers Associates (CRA)
Workorder# 0806354CR1

Three 1 Liter Summa Canister (100% Certified) samples were received on June 18, 2008. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>ASTM D-1946</i> | <i>ATL Modifications</i> |
|-------------------------|--|--|
| Calibration | A single point calibration is performed using a reference standard closely matching the composition of the unknown. | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples. |
| Reference Standard | The composition of any reference standard must be known to within 0.01 mol % for any component. | The standards used by ATL are blended to a $\geq 95\%$ accuracy. |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL. | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix. |
| Precision | Precision requirements established at each concentration level. | Duplicates should agree within 25% RPD for detections > 5 X's the RL. |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

THE WORK ORDER WAS REISSUED ON JULY 15, 2008 TO CORRECT IDENTIFICATION OF THE FOLLOWING SAMPLES V-4, V-1 AND V-11 PER CLIENT REQUEST.

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 NATURAL GAS ANALYSIS BY ASTM D-1946

Client Sample ID: V-4

Lab ID#: 0806354CR1-01A

| Compound | Min. Det. Limit (%) | Amount (%) |
|-----------------|----------------------------|-------------------|
| Oxygen | 0.26 | 1.6 |
| Methane | 0.00026 | 0.36 |
| Carbon Dioxide | 0.026 | 7.6 |

Client Sample ID: V-1

Lab ID#: 0806354CR1-02A

| Compound | Min. Det. Limit (%) | Amount (%) |
|-----------------|----------------------------|-------------------|
| Oxygen | 0.25 | 1.9 |
| Methane | 0.00025 | 0.084 |
| Carbon Dioxide | 0.025 | 7.8 |

Client Sample ID: V-11

Lab ID#: 0806354CR1-03A

| Compound | Min. Det. Limit (%) | Amount (%) |
|-----------------|----------------------------|-------------------|
| Oxygen | 0.25 | 7.7 |
| Carbon Dioxide | 0.025 | 6.1 |



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Client Sample ID: V-4

Lab ID#: 0806354CR1-01A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 9061843 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 2.58 | Date of Analysis: | 6/19/08 01:22 AM |

| Compound | Min. Det. Limit (%) | Amount (%) |
|----------------|---------------------|------------|
| Oxygen | 0.26 | 1.6 |
| Methane | 0.00026 | 0.36 |
| Carbon Dioxide | 0.026 | 7.6 |

Container Type: 1 Liter Summa Canister (100% Certified)



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Client Sample ID: V-1

Lab ID#: 0806354CR1-02A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 9061844 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 2.53 | Date of Analysis: | 6/19/08 01:56 AM |

| Compound | Min. Det. Limit (%) | Amount (%) |
|----------------|---------------------|------------|
| Oxygen | 0.25 | 1.9 |
| Methane | 0.00025 | 0.084 |
| Carbon Dioxide | 0.025 | 7.8 |

Container Type: 1 Liter Summa Canister (100% Certified)



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Client Sample ID: V-11

Lab ID#: 0806354CR1-03A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 9061845 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 2.53 | Date of Analysis: | 6/19/08 03:00 AM |

| Compound | Min. Det. Limit (%) | Amount (%) |
|----------------|---------------------|--------------|
| Oxygen | 0.25 | 7.7 |
| Methane | 0.00025 | Not Detected |
| Carbon Dioxide | 0.025 | 6.1 |

Container Type: 1 Liter Summa Canister (100% Certified)



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Client Sample ID: Lab Blank

Lab ID#: 0806354CR1-04A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|----------|---------------------|------------------|
| File Name: | 9061829a | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/18/08 04:39 PM |

| Compound | Min. Det. Limit (%) | Amount (%) |
|----------------|---------------------|--------------|
| Oxygen | 0.10 | Not Detected |
| Methane | 0.00010 | Not Detected |
| Carbon Dioxide | 0.010 | Not Detected |

Container Type: NA - Not Applicable



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Client Sample ID: LCS

Lab ID#: 0806354CR1-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | 9061846 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/19/08 03:51 AM |

| Compound | %Recovery |
|----------------|-----------|
| Oxygen | 100 |
| Methane | 102 |
| Carbon Dioxide | 99 |

Container Type: NA - Not Applicable



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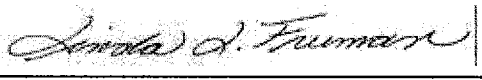
AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806376A

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-2008-13 |
| DATE RECEIVED: | 06/19/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 07/02/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------------|-------------------------------|---------------------------|
| 01A | Trip Blank | Modified TO-15/TICs | 28.5 "Hg | 15 psi |
| 02A | Lab Blank | Modified TO-15/TICs | NA | NA |
| 03A | CCV | Modified TO-15/TICs | NA | NA |
| 04A | LCS | Modified TO-15/TICs | NA | NA |

CERTIFIED BY: 

DATE: 07/02/08

Laboratory Director

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: 07/01/07, Expiration date: 06/30/08

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

**(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806354B

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-2008 |
| DATE RECEIVED: | 06/18/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 06/26/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------|-------------------------------|---------------------------|
| 01A | SVP-4 | Modified TO-3 | 6.5 "Hg | 15 psi |
| 02A | SVP-1 | Modified TO-3 | 6.0 "Hg | 15 psi |
| 03A | SVP-11 | Modified TO-3 | 6.0 "Hg | 15 psi |
| 04A | Lab Blank | Modified TO-3 | NA | NA |
| 05A | LCS | Modified TO-3 | NA | NA |

CERTIFIED BY:

Laboratory Director

DATE: 06/26/08

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: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-3
Conestoga-Rovers Associates (CRA)
Workorder# 0806354B

Three 1 Liter Summa Canister (100% Certified) samples were received on June 18, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-3</i> | <i>ATL Modifications</i> |
|--------------------------------------|---|---|
| Daily Calibration Standard Frequency | Prior to sample analysis and every 4 - 6 hrs | Prior to sample analysis and after the analytical batch ≤ 20 samples |
| Initial Calibration Calculation | 4-point calibration using a linear regression model | 5-point calibration using average Response Factor |
| Initial Calibration Frequency | Weekly | When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation |
| Moisture Control | Nafion system | Sorbent system |
| Minimum Detection Limit (MDL) | Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard | 40 CFR Pt. 136 App. B |
| Preparation of Standards | Levels achieved through dilution of gas mixture | Levels achieved through loading various volumes of the gas mixture |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.



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- 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-3 GC/FID

Client Sample ID: SVP-4

Lab ID#: 0806354B-01A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 240 | 980 |

Client Sample ID: SVP-1

Lab ID#: 0806354B-02A

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 250 | 1000 |

Client Sample ID: SVP-11

Lab ID#: 0806354B-03A

No Detections Were Found.



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Client Sample ID: SVP-4

Lab ID#: 0806354B-01A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062107 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 12.9 | Date of Analysis: | 6/21/08 02:09 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 240 | 980 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 110 | 75-150 |



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Client Sample ID: SVP-1

Lab ID#: 0806354B-02A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062106 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 12.6 | Date of Analysis: | 6/21/08 01:30 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.32 | 1.3 | 250 | 1000 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 114 | 75-150 |



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Client Sample ID: SVP-11

Lab ID#: 0806354B-03A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062105 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 2.53 | Date of Analysis: | 6/21/08 12:44 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.063 | 0.26 | Not Detected | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 85 | 75-150 |



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Client Sample ID: Lab Blank

Lab ID#: 0806354B-04A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062102 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/21/08 10:45 AM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.025 | 0.10 | Not Detected | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 82 | 75-150 |



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Client Sample ID: LCS

Lab ID#: 0806354B-05A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062112 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/21/08 05:28 PM |

| Compound | | %Recovery |
|-------------------------------------|-----------|---------------|
| TPH (Gasoline Range) | | 84 |
| Container Type: NA - Not Applicable | | |
| Surrogates | %Recovery | Method Limits |
| Fluorobenzene (FID) | 104 | 75-150 |



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806376B

Work Order Summary

| | | | |
|------------------------|--|------------------|--|
| CLIENT: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 | BILL TO: | Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608 |
| PHONE: | 510-420-0700 | P.O. # | |
| FAX: | 510-420-9170 | PROJECT # | 240897-2008-13 |
| DATE RECEIVED: | 06/19/2008 | CONTACT: | Kyle Vagadori |
| DATE COMPLETED: | 06/26/2008 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|---------------|-------------------------------|---------------------------|
| 01A | Trip Blank | Modified TO-3 | 28.5 "Hg | 15 psi |
| 02A | Lab Blank | Modified TO-3 | NA | NA |
| 03A | LCS | Modified TO-3 | NA | NA |

CERTIFIED BY:

Laboratory Director

DATE: 06/26/08

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: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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**LABORATORY NARRATIVE
Modified TO-3
Conestoga-Rovers Associates (CRA)
Workorder# 0806376B**

One 1 Liter Summa Canister (100% Certified) sample was received on June 19, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-3</i> | <i>ATL Modifications</i> |
|--------------------------------------|---|---|
| Daily Calibration Standard Frequency | Prior to sample analysis and every 4 - 6 hrs | Prior to sample analysis and after the analytical batch ≤ 20 samples |
| Initial Calibration Calculation | 4-point calibration using a linear regression model | 5-point calibration using average Response Factor |
| Initial Calibration Frequency | Weekly | When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation |
| Moisture Control | Nafion system | Sorbent system |
| Minimum Detection Limit (MDL) | Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard | 40 CFR Pt. 136 App. B |
| Preparation of Standards | Levels achieved through dilution of gas mixture | Levels achieved through loading various volumes of the gas mixture |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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-3 GC/FID**

Client Sample ID: Trip Blank

Lab ID#: 0806376B-01A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0806376B-01A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062232 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/23/08 12:34 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|----------------------|----------------------|------------------|------------------|
| TPH (Gasoline Range) | 0.025 | 0.10 | Not Detected | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|------------------|
| Fluorobenzene (FID) | 97 | 75-150 |



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Client Sample ID: Lab Blank

Lab ID#: 0806376B-02A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062203 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/22/08 03:54 PM |

| Compound | Rpt. Limit (ppmv) | Rpt. Limit (uG/L) | Amount (ppmv) | Amount (uG/L) |
|----------------------|-------------------|-------------------|---------------|---------------|
| TPH (Gasoline Range) | 0.025 | 0.10 | Not Detected | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|---------------------|-----------|---------------|
| Fluorobenzene (FID) | 86 | 75-150 |



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Client Sample ID: LCS

Lab ID#: 0806376B-03A

MODIFIED EPA METHOD TO-3 GC/FID

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | d062212 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/22/08 09:33 PM |

| Compound | | %Recovery |
|-------------------------------------|-----------|---------------|
| TPH (Gasoline Range) | | 86 |
| Container Type: NA - Not Applicable | | |
| Surrogates | %Recovery | Method Limits |
| Fluorobenzene (FID) | 107 | 75-150 |



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 0806376A

One 1 Liter Summa Canister (100% Certified) sample was received on June 19, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------|----------------------------|---|
| Daily CCV | +/- 30% Difference | <= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction no

performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Trip Blank

Lab ID#: 0806376A-01A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0806376A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | t062619 | Date of Collection: | 6/17/08 |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/27/08 12:55 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected |
| Toluene | 0.50 | Not Detected | 1.9 | Not Detected |
| Ethyl Benzene | 0.50 | Not Detected | 2.2 | Not Detected |
| m,p-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| o-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| tert-Butyl alcohol | 2.0 | Not Detected | 6.1 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | NA | Not Detected |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 120 | 70-130 |
| 4-Bromofluorobenzene | 95 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806376A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|------------------|
| File Name: | t062606 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 6/26/08 12:15 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|-------------------------|-------------------|---------------|--------------------|----------------|
| Methyl tert-butyl ether | 0.50 | Not Detected | 1.8 | Not Detected |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected |
| Toluene | 0.50 | Not Detected | 1.9 | Not Detected |
| Ethyl Benzene | 0.50 | Not Detected | 2.2 | Not Detected |
| m,p-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| o-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| tert-Butyl alcohol | 2.0 | Not Detected | 6.1 | Not Detected |

TENTATIVELY IDENTIFIED COMPOUNDS

| Compound | CAS Number | Match Quality | Amount ppbv |
|-----------|------------|---------------|--------------|
| Butane | 106-97-8 | NA | Not Detected |
| Isobutane | 75-28-5 | NA | Not Detected |
| Propane | 74-98-6 | NA | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 95 | 70-130 |
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806376A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | t062605 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/08 11:19 AM |

| Compound | %Recovery |
|-------------------------|-----------|
| Methyl tert-butyl ether | 103 |
| Benzene | 101 |
| Toluene | 107 |
| Ethyl Benzene | 98 |
| m,p-Xylene | 96 |
| o-Xylene | 96 |
| tert-Butyl alcohol | 104 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 106 | 70-130 |
| 1,2-Dichloroethane-d4 | 122 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0806376A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | t062604 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 6/26/08 10:37 AM |

| Compound | %Recovery |
|-------------------------|-----------|
| Methyl tert-butyl ether | 108 |
| Benzene | 106 |
| Toluene | 118 |
| Ethyl Benzene | 99 |
| m,p-Xylene | 97 |
| o-Xylene | 97 |
| tert-Butyl alcohol | 109 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| Toluene-d8 | 107 | 70-130 |
| 1,2-Dichloroethane-d4 | 127 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |