

C A M B R I A

April 8, 2004

Mr. Scott Seery
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: **Revised Table and Analytic Report
August 2003 Vapor Sampling Event**
Former Chevron Station 9-0260
21995 Foothill Blvd.
Hayward, California
Cambria Project No. 31E-1915

Alameda County
APR 09 2004
Environmental Health



Dear Mr. Seery:

Attached you will find a copy of the revised table documenting vapor sample results from the August 2003 sampling event at the site referenced above. Upon listening to your message of April 6 again, I realized the specific question you were seeking to have answered. I have enclosed here a copy of the laboratory analytic report and copies of the revised tables as well. They are both titled as Table 2, one showing August 2003 data only and the other showing both August 2003 and January 2004 data. Please insert both tables into Attachment L of the SCM you had referred to in your voice message.

If you have any other questions regarding data associated with this site please feel free to contact me at (510) 420-3348.

Sincerely,
Cambria Environmental Technology, Inc.

Robert C. Foss, R.G.
Senior Project Geologist

Attachments: Revised Tables of Soil Vapor Data (August 2003, January 2004)
Laboratory Report of Vapor Analyses, August 2003 Sampling Event

cc: Karen Streich, ChevronTexaco, P.O. Box 6012, San Ramon, CA 94583

i:\9-0260 Hayward\Revised vapor table and analytical.doc

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
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Table 2. Analytic Results for Soil Vapor - Chevron Station 9-0260, 21995 Foothill Blvd., Hayward

Sample ID	Sample Date	Probe Depth Interval (fbg)	Sample Collection Time (minutes)	TPHg	B	T	E	X ¹	MTBE ²	Oxygen (% volume)	Methane (% volume)	Carbon dioxide (% volume)
Concentrations reported in micrograms per cubic meter - $\mu\text{g}/\text{m}^3$												
VP-1	8/26/03	3.0-4.5	40	60,000	<21	26	<28	<28	<94	NA	NA	NA
VP-1	1/23/04	3.0-4.5	22	69,000	<39	<46	<54	<54	<180	8.0	0.00021	4.7
VP-1	1/23/04	3.0-4.5*	39	11,000	<6.3	<7.4	<8.6	<8.6	<28	9.5	0.00018	4.4
VP-1	8/26/03	8.0-9.5	90	81,000	<26	<31	<36	<36	<120	NA	NA	NA
VP-1	1/23/04	8.0-9.5	46	18,000	<9.4	<11	<13	<13	<42	16	0.00018	2.6
VP-1	1/23/04	8.0-9.5**	lab method dup	18,000	<9.4	<11	<13	<13	<42	NA	NA	NA
VP-1	8/26/03	12.0-13.5	120	160,000	26	25	<16	17	<52	NA	NA	NA
VP-1	1/23/04	12.0-13.5	62	75,000	<24	<28	<33	<33	<110	3.5	0.0038	6.0
VP-2	8/26/03	3.0-4.5	35	63,000***	<11	160	<15	18	<49	NA	NA	NA
VP-2	1/23/04	3.0-4.5	32	13,000	<6.4	9.6	<8.8	<8.8	<29	12	<0.00015	0.34
VP-2	8/26/03	8.0-9.5	45	66,000***	13	77	<15	<15	<50	NA	NA	NA
VP-2	1/26/04	8.0-9.5	36	47,000	<25	<29	<34	<34	<110	10	<0.00015	0.0050
VP-2	1/26/04	8.0-9.5**	lab method dup	NA	NA	NA	NA	NA	NA	10	<0.00015	0.0050
VP-2	8/26/03	12.0-13.5	35	96,000***	14	130	<15	26	95	NA	NA	NA
VP-2	1/26/04	12.0-13.5	95	2,500,000	<1400	<1600	<1900	<1900	<6200	17	0.0011	0.69
VP-3	8/26/03	3.0-4.5	37	53,000	<10	28	<14	<14	<45	NA	NA	NA
VP-3	1/26/04	3.0-4.5	75	22,000	<12	<15	<17	<17	<57	12	<0.00016	0.13
VP-3	8/26/03	8.0-9.5	35	68,000	17	46	<14	<14	<48	NA	NA	NA
VP-3	1/26/04	8.0-9.5	31	390,000	<260	<300	<350	<350	<1200	9.5	<0.00016	0.86
VP-3	8/26/03	12.0-13.5	35	140,000	54	27	<14	21	<46	NA	NA	NA
VP-3	1/26/04	12.0-13.5	56	11,000	11	24	<15	16	<49	14	<0.00067	1.0

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX), and oxygenates including methyl tertiary butyl ether (MTBE) by EPA T0-15.
and oxygenates including methyl tertiary butyl ether (MTBE) by EPA T0-15.

Oxygen, methane, and carbon dioxide by ASTM D-1946M.

<x = Not detected above method detection limit.

fbg = Feet below grade.

NA = Not analyzed.

1 = Values for m,p-xylenes only. No o-xylenes detected in any sample.

2 = Except for MTBE, no other analyzed oxygenates were detected.

* = Field duplicate.

** = Lab method duplicate.

*** = Values may contain up to an 11% error.

Table 2. Analytic Results for Soil Vapor - Chevron Station 9-0260, 21995 Foothill Blvd., Hayward

Sample ID	Sample Date	Probe Depth Interval (fbg)	Sample Collection Time (minutes)	TPHg	B	T	E	X ¹	MTBE ²	Oxygen (% volume)	Methane (% volume)	Carbon dioxide (% volume)
Concentrations reported in micrograms per cubic meter - µg/m ³												
VP-1	8/26/03	3.0-4.5	40	60,000	<21	26	<28	<28	<94	NA	NA	NA
VP-1	8/26/03	8.0-9.5	90	81,000	<26	<31	<36	<36	<120	NA	NA	NA
VP-1	8/26/03	12.0-13.5	120	160,000	26	25	<16	17	<52	NA	NA	NA
VP-2	8/26/03	3.0-4.5	35	63,000*	<11	160	<15	18	<49	NA	NA	NA
VP-2	8/26/03	8.0-9.5	45	66,000*	13	77	<15	<15	<50	NA	NA	NA
VP-2	8/26/03	12.0-13.5	35	96,000*	14	130	<15	26	95	NA	NA	NA
VP-3	8/26/03	3.0-4.5	37	53,000	<10	28	<14	<14	<45	NA	NA	NA
VP-3	8/26/03	8.0-9.5	35	68,000	17	46	<14	<14	<48	NA	NA	NA
VP-3	8/26/03	12.0-13.5	35	140,000	54	27	<14	21	<46	NA	NA	NA

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX), and oxygenates including methyl tertiary butyl ether (MTBE) by EPA T0-15.

and oxygenates including methyl tertiary butyl ether (MTBE) by EPA T0-15.

<x = Not detected above method detection limit.

fbg = Feet below grade.

1 = Values for m,p-xylenes only. No o-xylenes detected in any sample.

2 = Except for MTBE, no other analyzed oxygenates were detected.

* = Values may contain up to an 11% error.



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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

E-mail to: samplereceiving@airtoxics.com



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0308547

Work Order Summary

CLIENT:	Mr. Greg Bentley Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608	BILL TO:	Mr. Greg Bentley Cambria Environmental Technology 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-3346	P.O. #	
FAX:	510-420-9170	PROJECT #	310-1915 9-0260
DATE RECEIVED:	08/27/03	CONTACT:	Kelly Buettner
DATE COMPLETED:	09/12/03		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC/PRES.</u>
01A	VP-1@3'	Modified TO-15	5.0 "Hg
02A	VP-2@3'	Modified TO-15	6.0 "Hg
03A	VP-3@3'	Modified TO-15	4.0 "Hg
04A	VP-1@8'	Modified TO-15	5.0 "Hg
05A	VP-2@8'	Modified TO-15	6.5 "Hg
06A	VP-3@8'	Modified TO-15	5.5 "Hg
07A	VP-1@12'	Modified TO-15	7.5 "Hg
08A	VP-2@12'	Modified TO-15	6.5 "Hg
09A	VP-3@12'	Modified TO-15	4.5 "Hg
09AA	VP-3@12' Duplicate	Modified TO-15	4.5 "Hg
10A	Lab Blank	Modified TO-15	NA
10B	Lab Blank	Modified TO-15	NA
10C	Lab Blank	Modified TO-15	NA
11A	CCV	Modified TO-15	NA
11B	CCV	Modified TO-15	NA
11C	CCV	Modified TO-15	NA
12A	LCS	Modified TO-15	NA
12B	LCS	Modified TO-15	NA
12C	LCS	Modified TO-15	NA

CERTIFIED BY:

Laboratory Director

DATE: 09/12/03

Certification numbers: AR DEQ, CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892

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

Accreditation number: E87680, Effective date: 07/01/03, Expiration date: 06/30/04

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
Cambria Environmental Technology
Workorder# 0308547

Nine 6 Liter Summa Canister samples were received on September 2, 2003. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.5 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. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
BFB acceptance criteria	CLP protocol	SW-846 protocol
Concentration of IS spike	10 ppbv	25 ppbv when 0.5/2.0 ppbv is used for the reporting limit
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
Daily CCV	<= 30% Difference	<= 30% Difference with two allowed out up to <=40%.; flag and narrate outliers
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106
IS Recoveries	Within 40% of mean over ICAL for blanks, and w/in 40 % of daily CCV for samples	Within 40% of CCV recoveries for blank and samples

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples VP-1@3', VP-2@3', VP-3@3', VP-1@8', VP-2@8', VP-3@8', VP-1@12', VP-2@12' and VP-3@12' due to the presence of high level non-target species.

The reported CCV for each daily batch may be derived from more than one individual analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

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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SAMPLE NAME: VP-1@3'

ID#: 0308547-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	009061	Date of Collection	8/26/03
DI Factor	12.9	Date of Analysis	9/6/03 03:45 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	6.4	21	Not Detected	Not Detected
Toluene	6.4	25	6.8	26
Ethyl Benzene	6.4	28	Not Detected	Not Detected
m,p-Xylene	6.4	28	Not Detected	Not Detected
o-Xylene	6.4	28	Not Detected	Not Detected
Methyl tert-butyl ether	26	94	Not Detected	Not Detected
tert-Amyl methyl ether	26	110	Not Detected	Not Detected
Isopropyl ether	26	110	Not Detected	Not Detected
Ethyl-tert-butyl ether	26	110	Not Detected	Not Detected
tert-Butyl alcohol	26	79	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	130	540	14000	60000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: VP-2@3'

ID#: 0308547-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6090615	Date of Collection:	8/26/08
ID#:	672	Date of Analysis:	9/01/08-08:19

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.4	11	Not Detected	Not Detected
Toluene	3.4	13	42	160
Ethyl Benzene	3.4	15	Not Detected	Not Detected
m,p-Xylene	3.4	15	4.1	18
o-Xylene	3.4	15	Not Detected	Not Detected
Methyl tert-butyl ether	13	49	Not Detected	Not Detected
tert-Amyl methyl ether	13	57	Not Detected	Not Detected
Isopropyl ether	13	57	Not Detected	Not Detected
Ethyl-tert-butyl ether	13	57	Not Detected	Not Detected
tert-Butyl alcohol	13	41	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	67	280	15000	63000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: VP-3@3'

ID#: 0308547-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	b090516	Date of Collection:	8/26/03
Dil. Factor:	6.20	Date of Analysis:	9/6/03 06:37 PM

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.1	10	Not Detected	Not Detected
Toluene	3.1	12	7.3	28
Ethyl Benzene	3.1	14	Not Detected	Not Detected
m,p-Xylene	3.1	14	Not Detected	Not Detected
o-Xylene	3.1	14	Not Detected	Not Detected
Methyl tert-butyl ether	12	45	Not Detected	Not Detected
tert-Amyl methyl ether	12	53	Not Detected	Not Detected
Isopropyl ether	12	53	Not Detected	Not Detected
Ethyl-tert-butyl ether	12	53	Not Detected	Not Detected
tert-Butyl alcohol	12	38	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	62	260	13000	53000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	101	70-130

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SAMPLE NAME: VP-1@8'

ID#: 0308547-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	1097109	Date of Collection:	8/26/03
Dil Factor:	160	Date of Analysis:	9/1/03 04:07 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	8.0	26	Not Detected	Not Detected
Toluene	8.0	31	Not Detected	Not Detected
Ethyl Benzene	8.0	36	Not Detected	Not Detected
m,p-Xylene	8.0	36	Not Detected	Not Detected
o-Xylene	8.0	36	Not Detected	Not Detected
Methyl tert-butyl ether	32	120	Not Detected	Not Detected
tert-Amyl methyl ether	32	140	Not Detected	Not Detected
Isopropyl ether	32	140	Not Detected	Not Detected
Ethyl-tert-butyl ether	32	140	Not Detected	Not Detected
tert-Butyl alcohol	32	99	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	160	670	19000	81000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: VP-2@8'

ID#: 0308547-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	6090618	Date of Collection	8/26/03
Dil Factor	5.84	Date of Analysis	9/6/03 07:42 PM

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.4	11	4.1	13
Toluene	3.4	13	20	77
Ethyl Benzene	3.4	15	Not Detected	Not Detected
m,p-Xylene	3.4	15	Not Detected	Not Detected
o-Xylene	3.4	15	Not Detected	Not Detected
Methyl tert-butyl ether	14	50	Not Detected	Not Detected
tert-Amyl methyl ether	14	58	Not Detected	Not Detected
Isopropyl ether	14	58	Not Detected	Not Detected
Ethyl-tert-butyl ether	14	58	Not Detected	Not Detected
tert-Butyl alcohol	14	42	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	68	280	16000	66000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: VP-3@8'

ID#: 0308547-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	H090619	Date of Collection	8/26/03
Dil Factor	6.56	Date of Analysis	9/6/03 08:10 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.3	11	5.3	17
Toluene	3.3	12	12	46
Ethyl Benzene	3.3	14	Not Detected	Not Detected
m,p-Xylene	3.3	14	Not Detected	Not Detected
o-Xylene	3.3	14	Not Detected	Not Detected
Methyl tert-butyl ether	13	48	Not Detected	Not Detected
tert-Amyl methyl ether	13	56	Not Detected	Not Detected
Isopropyl ether	13	56	Not Detected	Not Detected
Ethyl-tert-butyl ether	13	56	Not Detected	Not Detected
tert-Butyl alcohol	13	40	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	66	270	16000	68000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	102	70-130

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SAMPLE NAME: VP-1@12'

ID#: 0308547-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	16090520	Date of Collection:	8/26/03
Dil Factor:	7.16	Date of Analysis:	9/6/03 08:47 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.6	12	8.2	26
Toluene	3.6	14	6.6	25
Ethyl Benzene	3.6	16	Not Detected	Not Detected
m,p-Xylene	3.6	16	3.9	17
o-Xylene	3.6	16	Not Detected	Not Detected
Methyl tert-butyl ether	14	52	Not Detected	Not Detected
tert-Amyl methyl ether	14	61	Not Detected	Not Detected
Isopropyl ether	14	61	Not Detected	Not Detected
Ethyl-tert-butyl ether	14	61	Not Detected	Not Detected
tert-Butyl alcohol	14	44	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	72	300	37000	160000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: VP-2@12'

ID#: 0308547-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	6090710	Date of Collection	8/26/03
Dil Factor	0.84	Date of Analysis	9/7/03 02:26 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.4	11	4.3	14
Toluene	3.4	13	34	130
Ethyl Benzene	3.4	15	Not Detected	Not Detected
m,p-Xylene	3.4	15	5.8	26
o-Xylene	3.4	15	Not Detected	Not Detected
Methyl tert-butyl ether	14	50	26	95
tert-Amyl methyl ether	14	58	Not Detected	Not Detected
Isopropyl ether	14	58	Not Detected	Not Detected
Ethyl-tert-butyl ether	14	58	Not Detected	Not Detected
tert-Butyl alcohol	14	42	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	68	280	23000	96000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	105	70-130

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SAMPLE NAME: VP-3@12'

ID#: 0308547-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	B090708	Date of Collection:	8/26/08
Dilution Factor:	1.00	Date of Analysis:	9/7/08 01:14 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.2	10	17	54
Toluene	3.2	12	7.1	27
Ethyl Benzene	3.2	14	Not Detected	Not Detected
m,p-Xylene	3.2	14	4.8	21
o-Xylene	3.2	14	Not Detected	Not Detected
Methyl tert-butyl ether	13	46	Not Detected	Not Detected
tert-Amyl methyl ether	13	54	Not Detected	Not Detected
Isopropyl ether	13	54	Not Detected	Not Detected
Ethyl-tert-butyl ether	13	54	Not Detected	Not Detected
tert-Butyl alcohol	13	39	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	63	260	34000	140000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	99	70-130

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SAMPLE NAME: VP-3@12' Duplicate

ID#: 0308547-09AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	16090709	Date of Collection	8/28/03
Dil Factor	1.02	Date of Analysis	9/7/03 01:51 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	3.2	10	16	53
Toluene	3.2	12	7.0	27
Ethyl Benzene	3.2	14	Not Detected	Not Detected
m,p-Xylene	3.2	14	5.4	24
o-Xylene	3.2	14	Not Detected	Not Detected
Methyl tert-butyl ether	13	46	Not Detected	Not Detected
tert-Amyl methyl ether	13	54	Not Detected	Not Detected
Isopropyl ether	13	54	Not Detected	Not Detected
Ethyl-tert-butyl ether	13	54	Not Detected	Not Detected
tert-Butyl alcohol	13	39	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	63	260	35000	140000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0308547-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	B090609	Date of Collection:	NA
D. Factor:	100	Date of Analysis:	06/03/02 3:51 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
tert-Amyl methyl ether	2.0	8.5	Not Detected	Not Detected
Isopropyl ether	2.0	8.5	Not Detected	Not Detected
Ethyl-tert-butyl ether	2.0	8.5	Not Detected	Not Detected
tert-Butyl alcohol	2.0	6.2	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	10	42	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0308547-10B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	0308547-10B	Date of Collection	NA
Dil. Factor	1.00	Date of Analysis	9/7/03 12:41 PM

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
tert-Amyl methyl ether	2.0	8.5	Not Detected	Not Detected
Isopropyl ether	2.0	8.5	Not Detected	Not Detected
Ethyl-tert-butyl ether	2.0	8.5	Not Detected	Not Detected
tert-Butyl alcohol	2.0	6.2	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	10	42	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0308547-10C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	0308547-10C	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	9/11/03 03:01 PM

Compound	Rot. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Benzene	0.50	1.6	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
tert-Amyl methyl ether	2.0	8.5	Not Detected	Not Detected
Isopropyl ether	2.0	8.5	Not Detected	Not Detected
Ethyl-tert-butyl ether	2.0	8.5	Not Detected	Not Detected
tert-Butyl alcohol	2.0	6.2	Not Detected	Not Detected
TPH ref. to Gasoline (MW=100)	10	42	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308547-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	6090602	Date of Collection	NA
DI Factor	1.00	Date of Analysis	9/6/04 08:46 AM

Compound	%Recovery
Benzene	109
Toluene	113
Ethyl Benzene	108
m,p-Xylene	110
o-Xylene	112
Methyl tert-butyl ether	107
tert-Amyl methyl ether	97
Isopropyl ether	103
Ethyl-tert-butyl ether	100
tert-Butyl alcohol	107
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308547-11B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	0090703	Date of Collection	NA
Dil. Factor	1.00	Date of Analysis	9/7/03 09:57 AM

Compound	%Recovery
Benzene	100
Toluene	102
Ethyl Benzene	100
m,p-Xylene	105
o-Xylene	105
Methyl tert-butyl ether	101
tert-Amyl methyl ether	105
Isopropyl ether	111
Ethyl-tert-butyl ether	109
tert-Butyl alcohol	118
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0308547-11C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	109-102	Date of Collection	NA
Dil Factor	1.00	Date of Analysis	9/11/04 10:27 AM

Compound	%Recovery
Benzene	109
Toluene	111
Ethyl Benzene	112
m,p-Xylene	110
o-Xylene	109
Methyl tert-butyl ether	118
tert-Amyl methyl ether	103
Isopropyl ether	103
Ethyl-tert-butyl ether	104
tert-Butyl alcohol	108
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308547-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name	10090603	Date of Collection	NA
Dil. Factor	100	Date of Analysis	9/8/03 09:24 AM

Compound	%Recovery
Benzene	124
Toluene	116
Ethyl Benzene	109
m,p-Xylene	113
o-Xylene	108
Methyl tert-butyl ether	111
tert-Amyl methyl ether	Not Spiked
Isopropyl ether	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
tert-Butyl alcohol	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308547-12B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	10040706	Date of Collection:	NA
Dil Factor:	1.00	Date of Analysis:	07/03/10 16:11

Compound	%Recovery
Benzene	119
Toluene	110
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	103
Methyl tert-butyl ether	108
tert-Amyl methyl ether	Not Spiked
Isopropyl ether	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
tert-Butyl alcohol	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	94	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0308547-12C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	1091103	Date of Collection:	NA
DI Factor:	1.00	Date of Analysis:	01/06/11 11:15 AM

Compound	%Recovery
Benzene	118
Toluene	113
Ethyl Benzene	112
m,p-Xylene	104
o-Xylene	102
Methyl tert-butyl ether	119
tert-Amyl methyl ether	Not Spiked
Isopropyl ether	Not Spiked
Ethyl-tert-butyl ether	Not Spiked
tert-Butyl alcohol	Not Spiked
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	98	70-130



Sample Transportation Notice

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Contact Person <u>Bob Foss</u> Company <u>Cambria</u> Address <u>5900 Hollis St., Suite A</u> City <u>Emeryville</u> State <u>CA</u> Zip <u>94608</u> Phone <u>510-420-0700</u> FAX <u>510-420-9170</u> Collected By: Signature <u>[Signature]</u>			Project Info: P.O. # _____ Project # <u>30-1915</u> Project Name <u>9-0260</u>		Turn Around Time: ☒ Normal ☐ Rush _____ Specify _____	
9/3/03						
Lab ID	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum		
				Initial	Final	Residual
01A	VSP-1@3	8/26/03 12:03	BTEX, TPH, TAME, TDA, MTBE, ETBE, DIPE, TO-15 (all samples)	-29	-4	5.0 Pa
04A	VSP-1@8	13:40		-30	-5	5.0 Pa
07A	VSP-1@12	16:00		-30	-5	7.5 Pa
02A	VSP-2@3	12:25		-30	-3	6.0 Pa
05A	VSP-2@8	14:55		-30	-5	6.5 Pa
08A	VSP-2@12	16:45		-30	-5	6.5 Pa
03A	VSP-3@3	13:03		-30	-3	4.0 Pa
06A	VSP-3@8	15:20		-30	-5	5.5 Pa
09A	VSP-3@12	17:00	-28	-5	1.5 Pa	
Relinquished By (Signature) <u>[Signature]</u> Date/Time <u>9/3/03 14:45</u> Relinquished By (Signature) _____ Date/Time _____ Relinquished By (Signature) _____ Date/Time _____				Received By (Signature) <u>[Signature]</u> Date/Time <u>9/2/03 1625</u> Received By (Signature) _____ Date/Time _____ Received By (Signature) _____ Date/Time _____		
Notes:						
Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (°C)	Condition	Custody Seal Intact?
			<u>[Signature]</u>	-	<u>Good</u>	Yes No <u>(None)</u>
						Work Order # <u>0308547</u>

0 Samples arrived on 8/27/03 without a COC. 9/2/03.