

Residential ESL (Table E)

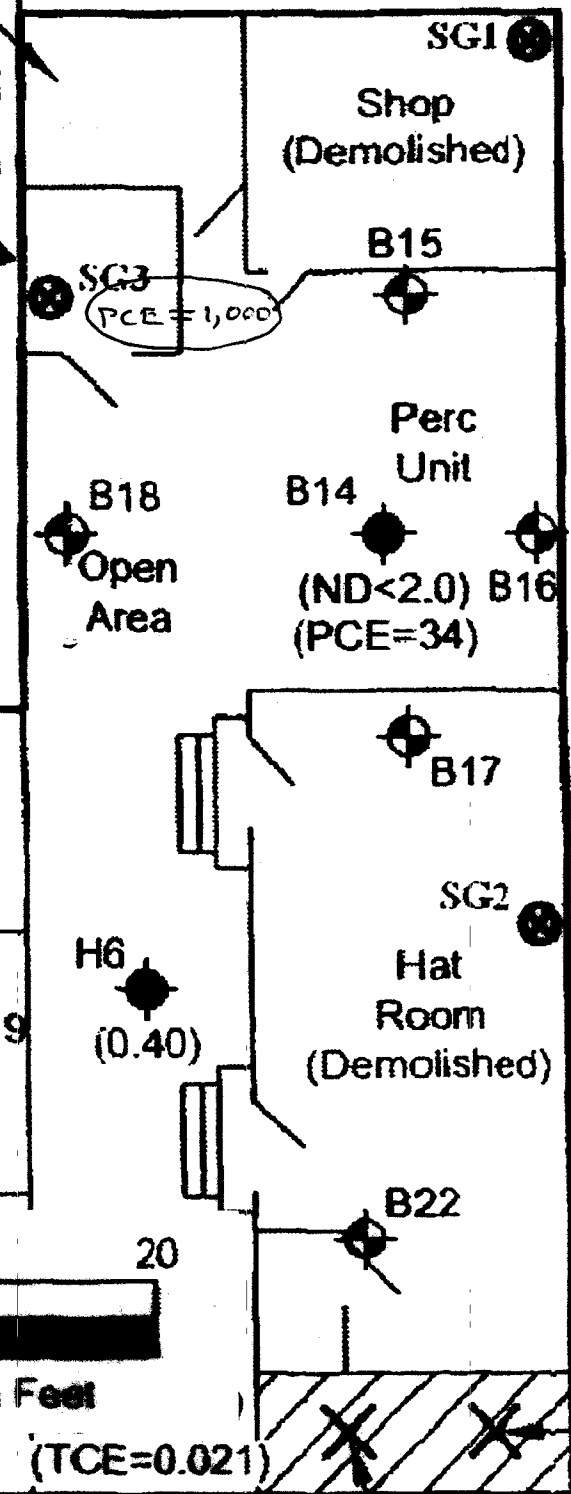
PCE	= 410
Vinyl Chloride	= 31
Benzene	= 84

Storage Area (Demolished)

Boiler Room (Demolished)

All concentrations in $\mu\text{g}/\text{m}^3$

Storage Buildings



PCE = 990

SG3
PCE = 1,000

Vinyl Chloride = 60
PCE = 8300
Benzene = 110



Scale in Feet



Stairs

Comp D
Comp E

Building



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WVOCs

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

Client Sample ID: SG1

Lab ID#: 0807090A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Trichloroethene	1.1	1.6	6.2	8.9	12,000
Tetrachloroethene	1.1	140	7.8	990	410
Benzene	1.1	19	3.6	61	84
Toluene	1.1	160	4.3	590	63,000
Ethyl Benzene	1.1	13	5.0	57	210,000
m,p-Xylene	1.1	52	5.0	230	} 21,000 combined
o-Xylene	1.1	17	5.0	74	

↓
ESL (uG/m³)

Client Sample ID: SG2

Lab ID#: 0807090A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Vinyl Chloride	9.4	23	24	* 60	31
cis-1,2-Dichloroethene	9.4	920	37	* 3700	7300
Trichloroethene	9.4	2300	50	12000	12,000
Tetrachloroethene	9.4	1200	64	* 8300	410
trans-1,2-Dichloroethene	9.4	27	37	110	15,000
Benzene	9.4	33	30	* 110	84
Toluene	9.4	280	35	1000	63,000
Ethyl Benzene	9.4	24	41	* 100	210,000
m,p-Xylene	9.4	81	41	350	
o-Xylene	9.4	25	41	110	

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090A-02AA

* indicates highest result for the sample and the lab duplicate. Dash indicates same result for the sample and the lab duplicate.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Vinyl Chloride	9.4	22	24	57	
cis-1,2-Dichloroethene	9.4	880	37	3500	
Trichloroethene	9.4	2300	50	12000	
Tetrachloroethene	9.4	1200	64	8300	
trans-1,2-Dichloroethene	9.4	28	37	110	
Benzene	9.4	33	30	100	
Toluene	9.4	280	35	1000	
Ethyl Benzene	9.4	22	41	98	
m,p-Xylene	9.4	88	41	* 380	} 21,000



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

HVOCs

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090A-02AA

o-Xylene	9.4	27	41	120
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Client Sample ID: SG3

Lab ID#: 0807090A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Trichloroethene	1.1	1.8	6.0	10	12,000
Tetrachloroethene	1.1	160	7.6	1000	410
Benzene	1.1	13	3.6	40	84
Toluene	1.1	140	4.2	510	63,000
Ethyl Benzene	1.1	14	4.9	62	210,000
m,p-Xylene	1.1	55	4.9	240	Σ 21,000
o-Xylene	1.1	17	4.9	74	

Client Sample ID: SG4

Lab ID#: 0807090A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Tetrachloroethene	1.2	26	8.2	180	410
Benzene	1.2	16	3.9	52	84
Toluene	1.2	120	4.6	440	63,000
Ethyl Benzene	1.2	11	5.2	48	210,000
m,p-Xylene	1.2	41	5.2	180	Σ 21,000
o-Xylene	1.2	13	5.2	58	

Client Sample ID: SG5

Lab ID#: 0807090A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)	
Trichloroethene	1.2	1.2	6.4	6.7	12,000
Tetrachloroethene	1.2	26	8.1	170	410
Benzene	1.2	16	3.8	53	84
Toluene	1.2	130	4.5	500	63,000
Ethyl Benzene	1.2	13	5.2	57	210,000
m,p-Xylene	1.2	50	5.2	220	Σ 21,000
o-Xylene	1.2	16	5.2	70	

TTA

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

multiply liters by 0.001 to get m³
 $\mu\text{g}/\text{m}^3$ \downarrow sample results = SL $\mu\text{g}/\text{m}^3$

Client Sample ID: **SG1**

Lab ID#: 0807090B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount $\mu\text{g}/\text{m}^3$	Amount (uG/L)	
Stoddard Solvent	0.14	0.82	0.94	0.0055	5.5	10,000

Client Sample ID: **SG2**

Lab ID#: 0807090B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)		
Stoddard Solvent	0.17	1.0	14	0.082	82	10,000

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090B-02AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)		
Stoddard Solvent	0.23	1.4	14	0.083	83	10,000

Client Sample ID: **SG3**

Lab ID#: 0807090B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)		
Stoddard Solvent	0.14	0.81	0.48	0.0028	2.8	10,000

Client Sample ID: **SG4**

Lab ID#: 0807090B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)		
Stoddard Solvent	0.15	0.87	0.37	0.0021	2.1	10,000

Client Sample ID: **SG5**

Lab ID#: 0807090B-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)		
Stoddard Solvent	0.15	0.86	0.43	0.0025	2.5	10,000

**Table E. Environmental Screening Levels (ESLs)
Indoor Air and Soil Gas
(Vapor Intrusion Concerns)**



Chemical	Indoor Air Screening Levels		² Shallow Soil Gas Screening Levels	
	¹ Residential Land Use (µg/m ³)	Commercial/Industrial Land Use Only (µg/m ³)	¹ Residential Land Use (µg/m ³)	Commercial/Industrial Land Use Only (µg/m ³)
Acenaphthene	4.4E+01	6.1E+01	4.4E+04	1.2E+05
Acenaphthylene	2.2E+01	3.1E+01	2.2E+04	6.1E+04
Acetone	6.6E+02	9.2E+02	6.6E+05	1.8E+06
Aldrin				
Anthracene	2.2E+02	3.1E+02	2.2E+05	6.1E+05
Antimony				
Arsenic				
Barium				
* Benzene	8.4E-02	1.4E-01	8.4E+01	2.8E+02
Benzo(a)anthracene				
Benzo(b)fluoranthene				
Benzo(k)fluoranthene				
Benzo(g,h,i)perylene				
Benzo(a)pyrene				
Beryllium				
1,1-Biphenyl				
Bis(2-chloroethyl) ether	7.4E-03	1.2E-02	7.4E+00	2.5E+01
Bis(2-chloroisopropyl) ether	3.4E-03	5.8E-03	3.4E+00	1.2E+01
Bis(2-ethylhexyl) phthalate				
Boron				
Bromodichloromethane	1.4E-01	2.3E-01	1.4E+02	4.6E+02
Bromoform (Tribromomethane)				
Bromomethane	1.0E+00	1.5E+00	1.0E+03	2.9E+03
Cadmium				
Carbon tetrachloride	1.9E-02	3.1E-02	1.9E+01	6.3E+01
Chlordane				
p-Chloroaniline				
Chlorobenzene	2.1E+02	2.9E+02	2.1E+05	5.8E+05
Chloroethane	2.1E+01	2.9E+01	2.1E+04	5.8E+04
Chloroform	4.6E-01	7.7E-01	4.6E+02	1.5E+03
Chloromethane	1.9E+01	2.6E+01	1.9E+04	5.3E+04
2-Chlorophenol	3.7E+00	5.1E+00	3.7E+03	1.0E+04
Chromium (total)				
Chromium III				
Chromium VI				
Chrysene				
Cobalt				
Copper				
Cyanide	1.5E+01	2.0E+01	1.5E+04	4.1E+04
Dibenz(a,h)anthracene				
Dibromochloromethane				
1,2-dibromo-3-chloropropane	1.3E-03	2.2E-03	1.3E+00	4.3E+00
1,2-Dibromoethane	4.1E-03	6.8E-03	4.1E+00	1.4E+01
1,2-Dichlorobenzene	4.2E+01	5.8E+01	4.2E+04	1.2E+05

**Table E. Environmental Screening Levels (ESLs)
Indoor Air and Soil Gas
(Vapor Intrusion Concerns)**

Chemical	Indoor Air Screening Levels		² Shallow Soil Gas Screening Levels	
	¹ Residential Land Use (µg/m ³)	Commercial/Industrial Land Use Only (µg/m ³)	¹ Residential Land Use (µg/m ³)	Commercial/Industrial Land Use Only (µg/m ³)
1,3-Dichlorobenzene	2.2E+01	3.1E+01	2.2E+04	6.1E+04
1,4-Dichlorobenzene	2.2E-01	3.7E-01	2.2E+02	7.4E+02
3,3-Dichlorobenzidine				
Dichlorodiphenyldichloroethane (DDD)				
Dichlorodiphenyldichloroethene (DDE)				
Dichlorodiphenyltrichloroethane (DDT)				
1,1-Dichloroethane	1.5E+00	2.6E+00	1.5E+03	5.1E+03
1,2-Dichloroethane	9.4E-02	1.6E-01	9.4E+01	3.1E+02
1,1-Dichloroethene	4.9E-02	8.2E-02	4.9E+01	1.6E+02
<i>cis</i> -1,2-Dichloroethene	7.3E+00	1.0E+01	7.3E+03	2.0E+04
<i>trans</i> -1,2-Dichloroethene	1.5E+01	2.0E+01	1.5E+04	4.1E+04
2,4-Dichlorophenol				
1,2-Dichloropropane	2.4E-01	4.1E-01	2.4E+02	8.2E+02
1,3-Dichloropropane	1.5E-01	2.6E-01	1.5E+02	5.1E+02
Dieldrin				
Diethyl phthalate				
Dimethyl phthalate				
2,4-Dimethylphenol				
2,4-Dinitrophenol				
2,4-Dinitrotoluene				
1,4-Dioxane				
Dioxin (2,3,7,8-TCDD)				
Endosulfan				
Endrin				
Ethylbenzene	2.1E+02	2.9E+02	2.1E+05	5.8E+05
Fluoranthene				
Fluorene	2.9E+01	4.1E+01	2.9E+04	8.2E+04
Heptachlor				
Heptachlor epoxide				
Hexachlorobenzene				
Hexachlorobutadiene				
γ-Hexachlorocyclohexane (Lindane)				
Hexachloroethane				
Indeno(1,2,3-c,d)pyrene				
Lead				
Mercury (elemental)	1.9E-02	2.6E-02	1.9E+01	5.3E+01
Methoxychlor				
Methylene chloride	5.2E+00	8.7E+00	5.2E+03	1.7E+04
Methyl ethyl ketone	1.0E+03	1.5E+03	1.0E+06	2.9E+06
Methyl isobutyl ketone	6.3E+02	8.8E+02	6.3E+05	1.8E+06
Methyl mercury				
2-Methylnaphthalene				
<i>tert</i> -Butyl methyl ether	9.4E+00	1.6E+01	9.4E+03	3.1E+04
Molybdenum				

*
*

7300
15,000

*

210,000

**Table E. Environmental Screening Levels (ESLs)
Indoor Air and Soil Gas
(Vapor Intrusion Concerns)**

Chemical	Indoor Air Screening Levels		² Shallow Soil Gas Screening Levels	
	¹ Residential Land Use (µg/m ³)	Commercial/Industrial Land Use Only (µg/m ³)	¹ Residential Land Use (µg/m ³)	Commercial/Industrial Land Use Only (µg/m ³)
Naphthalene	7.2E-02	1.2E-01	7.2E+01	2.4E+02
Nickel				
Pentachlorophenol				
Perchlorate				
Phenanthrene	2.2E+01	3.1E+01	2.2E+04	6.1E+04
Phenol				
Polychlorinated biphenyls (PCBs)				
Pyrene	2.2E+01	3.1E+01	2.2E+04	6.1E+04
Selenium				
Silver				
Styrene	1.9E+02	2.6E+02	1.9E+05	5.3E+05
tert-Butyl alcohol				
1,1,1,2-Tetrachloroethane	3.2E-01	5.4E-01	3.2E+02	1.1E+03
1,1,2,2-Tetrachloroethane	4.2E-02	7.0E-02	4.2E+01	1.4E+02
* Tetrachloroethene	410 4.1E-01	6.9E-01	4.1E+02	1.4E+03
Thallium				
* Toluene	63,000 6.3E+01	8.8E+01	6.3E+04	1.8E+05
Toxaphene				
TPH (gasolines)	1.0E+01	1.4E+01	1.0E+04	2.9E+04
* TPH (middle distillates)	10,000 1.0E+01	1.4E+01	1.0E+04	2.9E+04
TPH (residual fuels)				
1,2,4-Trichlorobenzene	8.3E-01	1.2E+00	8.3E+02	2.3E+03
1,1,1-Trichloroethane	4.6E+02	6.4E+02	4.6E+05	1.3E+06
1,1,2-Trichloroethane	1.5E-01	2.6E-01	1.5E+02	5.1E+02
* Trichloroethene	1200 1.2E+00	2.0E+00	1.2E+03	4.1E+03
2,4,5-Trichlorophenol	7.3E+01	1.0E+02	7.3E+04	2.0E+05
2,4,6-Trichlorophenol				
Vanadium				
* Vinyl chloride	31 3.1E-02	5.2E-02	3.1E+01	1.0E+02
* Xylenes	21,000 2.1E+01	2.9E+01	2.1E+04	5.8E+04
Zinc				

Notes:

1. Category "Residential Land Use" generally considered adequate for other sensitive uses (e.g., day-care centers, hospitals, etc.)
2. Soil Gas: Screening levels based on soil gas data collected less than 1.5 meters (five feet) below a building foundation or the ground surface. Intended for evaluation of potential indoor-air impacts.

Soil gas data should be collected and evaluated at all sites with significant areas of VOC-impacted soil. Screening levels also apply to areas over of impacted groundwater.

TPH -Total Petroleum Hydrocarbons. TPH ESLs must be used in conjunction with ESLs for related chemicals (e.g., BTEX, PAHs, oxidizers, etc.).



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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 #: 0807090A

Work Order Summary

CLIENT:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610	BILL TO:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610
PHONE:	510-658-6916	P.O. #	0298
FAX:	510-834-0772	PROJECT #	0298 Snow Cleaners
DATE RECEIVED:	07/03/2008	CONTACT:	Kyle Vagadori
DATE COMPLETED:	07/17/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SG1	Modified TO-15	3.5 "Hg	15 psi
02A	SG2	Modified TO-15	8.5 "Hg	15 psi
02AA	SG2 Lab Duplicate	Modified TO-15	8.5 "Hg	15 psi
03A	SG3	Modified TO-15	3.0 "Hg	15 psi
04A	SG4	Modified TO-15	5.0 "Hg	15 psi
05A	SG5	Modified TO-15	4.5 "Hg	15 psi
06A	Trip Blank	Modified TO-15	28.0 "Hg	15 psi
07A	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 07/17/08

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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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
P & D Environmental
Workorder# 0807090A

Six 1 Liter Summa Canister samples were received on July 03, 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

The Chain of Custody (COC) was not relinquished properly. A signature and date were not provided by the field sampler.

Analytical Notes

There were no analytical discrepancies.

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

Client Sample ID: SG1

Lab ID#: 0807090A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	1.1	1.6	6.2	8.9
Tetrachloroethene	1.1	140	7.8	990
Benzene	1.1	19	3.6	61
Toluene	1.1	160	4.3	590
Ethyl Benzene	1.1	13	5.0	57
m,p-Xylene	1.1	52	5.0	230
o-Xylene	1.1	17	5.0	74

Client Sample ID: SG2

Lab ID#: 0807090A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	9.4	23	24	60
cis-1,2-Dichloroethene	9.4	920	37	3700
Trichloroethene	9.4	2300	50	12000
Tetrachloroethene	9.4	1200	64	8300
trans-1,2-Dichloroethene	9.4	27	37	110
Benzene	9.4	33	30	110
Toluene	9.4	280	35	1000
Ethyl Benzene	9.4	24	41	100
m,p-Xylene	9.4	81	41	350
o-Xylene	9.4	25	41	110

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090A-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	9.4	22	24	57
cis-1,2-Dichloroethene	9.4	880	37	3500
Trichloroethene	9.4	2300	50	12000
Tetrachloroethene	9.4	1200	64	8300
trans-1,2-Dichloroethene	9.4	28	37	110
Benzene	9.4	33	30	100
Toluene	9.4	280	35	1000
Ethyl Benzene	9.4	22	41	98
m,p-Xylene	9.4	88	41	380



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090A-02AA

o-Xylene	9.4	27	41	120
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Client Sample ID: SG3

Lab ID#: 0807090A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	1.1	1.8	6.0	10
Tetrachloroethene	1.1	160	7.6	1000
Benzene	1.1	13	3.6	40
Toluene	1.1	140	4.2	510
Ethyl Benzene	1.1	14	4.9	62
m,p-Xylene	1.1	55	4.9	240
o-Xylene	1.1	17	4.9	74

Client Sample ID: SG4

Lab ID#: 0807090A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.2	26	8.2	180
Benzene	1.2	16	3.9	52
Toluene	1.2	120	4.6	440
Ethyl Benzene	1.2	11	5.2	48
m,p-Xylene	1.2	41	5.2	180
o-Xylene	1.2	13	5.2	58

Client Sample ID: SG5

Lab ID#: 0807090A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	1.2	1.2	6.4	6.7
Tetrachloroethene	1.2	26	8.1	170
Benzene	1.2	16	3.8	53
Toluene	1.2	130	4.5	500
Ethyl Benzene	1.2	13	5.2	57
m,p-Xylene	1.2	50	5.2	220
o-Xylene	1.2	16	5.2	70



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: Trip Blank

Lab ID#: 0807090A-06A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG1

Lab ID#: 0807090A-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071511	Date of Collection: 6/30/08
Dil. Factor:	2.29	Date of Analysis: 7/15/08 04:17 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	1.6	6.2	8.9
Tetrachloroethene	1.1	140	7.8	990
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Benzene	1.1	19	3.6	61
Toluene	1.1	160	4.3	590
Ethyl Benzene	1.1	13	5.0	57
m,p-Xylene	1.1	52	5.0	230
o-Xylene	1.1	17	5.0	74

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	99	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG2

Lab ID#: 0807090A-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071507	Date of Collection: 6/30/08
Dil. Factor:	18.8	Date of Analysis: 7/15/08 01:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	9.4	23	24	60
Methylene Chloride	9.4	Not Detected	33	Not Detected
cis-1,2-Dichloroethene	9.4	920	37	3700
Trichloroethene	9.4	2300	50	12000
Tetrachloroethene	9.4	1200	64	8300
trans-1,2-Dichloroethene	9.4	27	37	110
Benzene	9.4	33	30	110
Toluene	9.4	280	35	1000
Ethyl Benzene	9.4	24	41	100
m,p-Xylene	9.4	81	41	350
o-Xylene	9.4	25	41	110

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090A-02AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071509	Date of Collection: 6/30/08
Dil. Factor:	18.8	Date of Analysis: 7/15/08 02:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	9.4	22	24	57
Methylene Chloride	9.4	Not Detected	33	Not Detected
cis-1,2-Dichloroethene	9.4	880	37	3500
Trichloroethene	9.4	2300	50	12000
Tetrachloroethene	9.4	1200	64	8300
trans-1,2-Dichloroethene	9.4	28	37	110
Benzene	9.4	33	30	100
Toluene	9.4	280	35	1000
Ethyl Benzene	9.4	22	41	98
m,p-Xylene	9.4	88	41	380
o-Xylene	9.4	27	41	120

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG3

Lab ID#: 0807090A-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071510	Date of Collection: 6/30/08
Dil. Factor:	2.24	Date of Analysis: 7/15/08 03:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	1.8	6.0	10
Tetrachloroethene	1.1	160	7.6	1000
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Benzene	1.1	13	3.6	40
Toluene	1.1	140	4.2	510
Ethyl Benzene	1.1	14	4.9	62
m,p-Xylene	1.1	55	4.9	240
o-Xylene	1.1	17	4.9	74

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG4

Lab ID#: 0807090A-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071506	Date of Collection: 6/30/08
Dil. Factor:	2.42	Date of Analysis: 7/15/08 12:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	26	8.2	180
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Benzene	1.2	16	3.9	52
Toluene	1.2	120	4.6	440
Ethyl Benzene	1.2	11	5.2	48
m,p-Xylene	1.2	41	5.2	180
o-Xylene	1.2	13	5.2	58

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG5

Lab ID#: 0807090A-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071508	Date of Collection: 6/30/08
Dil. Factor:	2.38	Date of Analysis: 7/15/08 02:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	1.2	6.4	6.7
Tetrachloroethene	1.2	26	8.1	170
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Benzene	1.2	16	3.8	53
Toluene	1.2	130	4.5	500
Ethyl Benzene	1.2	13	5.2	57
m,p-Xylene	1.2	50	5.2	220
o-Xylene	1.2	16	5.2	70

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	98	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0807090A-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071505	Date of Collection: 6/30/08
Dil. Factor:	1.00	Date of Analysis: 7/15/08 12:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0807090A-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/15/08 10:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807090A-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/15/08 09:15 AM

Compound	%Recovery
Vinyl Chloride	100
Methylene Chloride	90
cis-1,2-Dichloroethene	101
Trichloroethene	101
Tetrachloroethene	104
trans-1,2-Dichloroethene	99
Benzene	101
Toluene	101
Ethyl Benzene	102
m,p-Xylene	101
o-Xylene	105

Container Type: NA - Not Applicable

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0807090A-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	7071503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/15/08 10:00 AM

Compound	%Recovery
Vinyl Chloride	101
Methylene Chloride	98
cis-1,2-Dichloroethene	105
Trichloroethene	107
Tetrachloroethene	109
trans-1,2-Dichloroethene	103
Benzene	107
Toluene	113
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	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 #: 0807090B

Work Order Summary

CLIENT:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610	BILL TO:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610
PHONE:	510-658-6916	P.O. #	0298
FAX:	510-834-0772	PROJECT #	0298 Snow Cleaners
DATE RECEIVED:	07/03/2008	CONTACT:	Kyle Vagadori
DATE COMPLETED:	07/17/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SG1	Modified TO-3	3.5 "Hg	15 psi
02A	SG2	Modified TO-3	8.5 "Hg	15 psi
02AA	SG2 Lab Duplicate	Modified TO-3	8.5 "Hg	15 psi
03A	SG3	Modified TO-3	3.0 "Hg	15 psi
04A	SG4	Modified TO-3	5.0 "Hg	15 psi
05A	SG5	Modified TO-3	4.5 "Hg	15 psi
06A	Trip Blank	Modified TO-3	28.0 "Hg	15 psi
07A	Lab Blank	Modified TO-3	NA	NA
08A	CCV	Modified TO-3	NA	NA

CERTIFIED BY: 

DATE: 07/17/08

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-3
P & D Environmental
Workorder# 0807090B

Six 1 Liter Summa Canister samples were received on July 03, 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. See the data sheets for the reporting limits for each compound.

<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 \leq 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

The Chain of Custody (COC) was not relinquished properly. A signature and date were not provided by the field sampler.

Analytical Notes

The reporting limit for Stoddard Solvent was raised to 0.062 ppmv.

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: SG1

Lab ID#: 0807090B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.14	0.82	0.94	5.5

Client Sample ID: SG2

Lab ID#: 0807090B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.17	1.0	14	82

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090B-02AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.23	1.4	14	83

Client Sample ID: SG3

Lab ID#: 0807090B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.14	0.81	0.48	2.8

Client Sample ID: SG4

Lab ID#: 0807090B-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.15	0.87	0.37	2.1

Client Sample ID: SG5

Lab ID#: 0807090B-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.15	0.86	0.43	2.5



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: Trip Blank

Lab ID#: 0807090B-06A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG1

Lab ID#: 0807090B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071619	Date of Collection:	6/30/08
Dil. Factor:	2.29	Date of Analysis:	7/16/08 07:00 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.14	0.82	0.94	5.5

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	96	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG2

Lab ID#: 0807090B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071623	Date of Collection:	6/30/08
Dil. Factor:	2.82	Date of Analysis:	7/16/08 09:27 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.17	1.0	14	82

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG2 Lab Duplicate

Lab ID#: 0807090B-02AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071624	Date of Collection:	6/30/08	
Dil. Factor:	3.76	Date of Analysis:	7/16/08 10:17 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.23	1.4	14	83

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG3

Lab ID#: 0807090B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071620	Date of Collection:	6/30/08
Dil. Factor:	2.24	Date of Analysis:	7/16/08 07:39 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.14	0.81	0.48	2.8

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	96	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG4

Lab ID#: 0807090B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071621	Date of Collection:	6/30/08
Dil. Factor:	2.42	Date of Analysis:	7/16/08 08:15 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.15	0.87	0.37	2.1

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SG5

Lab ID#: 0807090B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071625	Date of Collection:	6/30/08
Dil. Factor:	2.38	Date of Analysis:	7/17/08 05:26 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.15	0.86	0.43	2.5

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	98	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0807090B-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071622	Date of Collection:	6/30/08	
Dil. Factor:	1.00	Date of Analysis:	7/16/08 08:48 PM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.062	0.36	Not Detected	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	96	75-150



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0807090B-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071618	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/16/08 06:19 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
Stoddard Solvent	0.062	0.36	Not Detected	Not Detected

Container Type: NA - Not Applicable

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807090B-08A

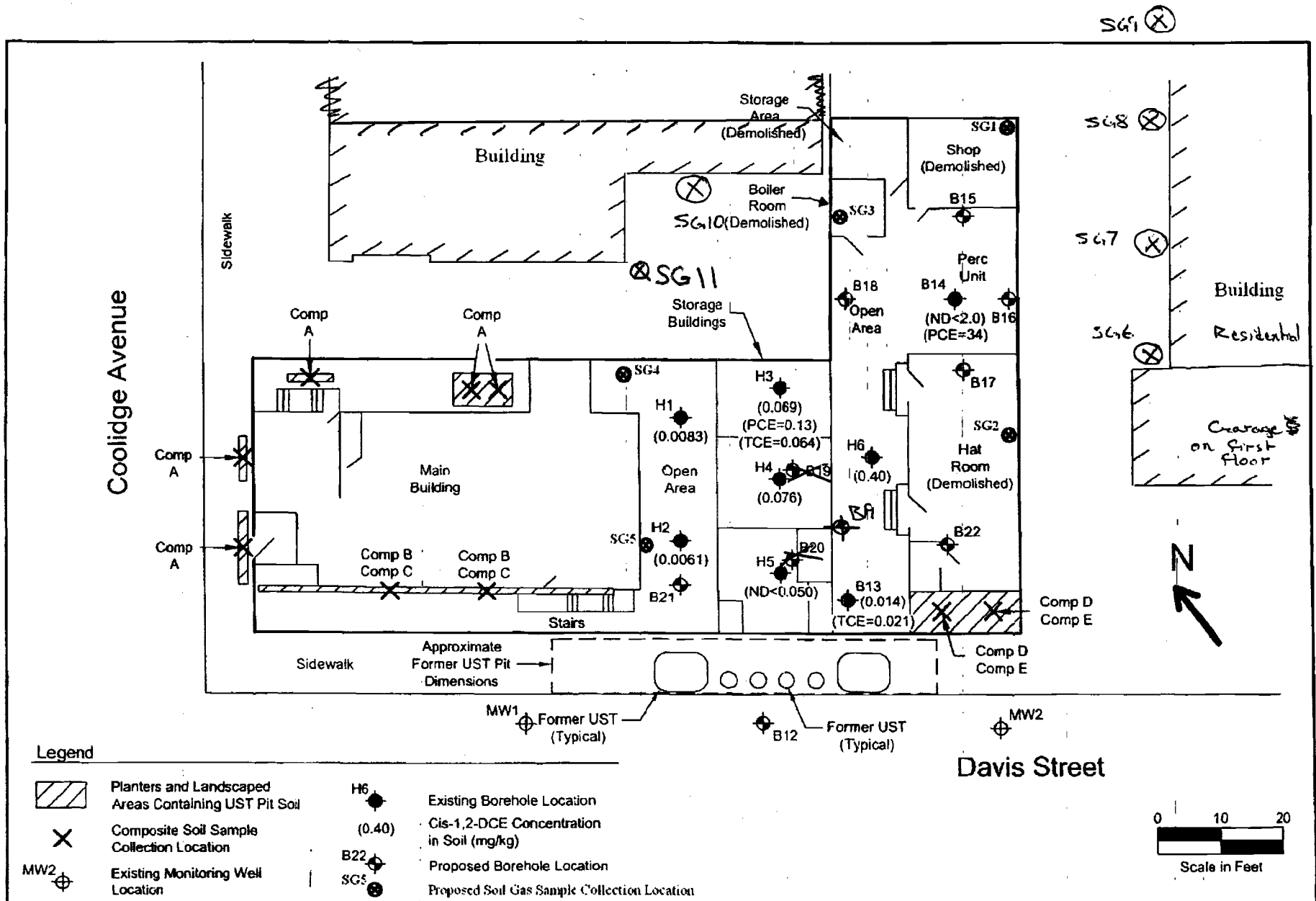
MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d071612a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/16/08 02:03 PM

Compound	%Recovery
Stoddard Solvent	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	102	75-150



Base Map From:
Underground Tank
Closure/Modification Plans
June 16, 1990

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

Figure 2
Site Plan Showing Cis-1,2-DCE Concentrations in Soil at 5-Foot Depth and Proposed Sample Collection Locations
Snow Cleaners
2678 Coolidge Ave
Oakland, CA

From: Wickham, Jerry, Env. Health
Sent: Friday, July 18, 2008 4:58 PM
To: 'PDKing0000@aol.com'
Subject: RE: RO357 Snow Cleaners Soil Gas Sample Results

Attachments: RO0357 Proposed soil gas spl locations 2008-07-18.pdf

Paul,

Based on the results of the initial sampling, your proposal to collect soil vapor samples at the additional proposed locations is acceptable. However, we request that you collect one additional soil vapor sample SG-11 in the proximity of the residential building shown on the attached figure. The results of all soil vapor sampling are to be presented in the pending Site Investigation Report.

Regards,

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: PDKing0000@aol.com [mailto:PDKing0000@aol.com]
Sent: Friday, July 18, 2008 10:11 AM
To: Wickham, Jerry, Env. Health
Subject: RO357 Snow Cleaners Soil Gas Sample Results

Hi Jerry,

You will find attached the following documents related to soil gas sample results for RO357 Snow Cleaners.

- o 0807090A_d.pdf (HVOC results)
- o 0807090B_d.pdf (TPH Stoddard solvent results)
- o First Soil Gas Results Summary.pdf
- o Proposed Soil Gas Sample Collection Locations.pdf

Please note that an enlarged site plan showing the soil gas sample collection locations is provided with the First Soil Gas Results Summary, and that the site plan shows the locations and concentrations of detected compounds that exceeded November 2007 residential Table E ESLs. The map shows that only PCE exceeded ESL values at locations SG1 and SG3 by a factor of less than 3. For location SG2, the portion of the apartment building directly across the driveway from SG2 and closest to Davis Street is a parking garage on the first floor. For this reason proposed location SG6 was moved northward to be in a direct line between SG2 and the portion of the apartment building that is not a garage. Proposed location SG7 is directly between the apartment building and the perc unit room at Snow Cleaners. Proposed location SG8

is directly between SG1 and the apartment building. Proposed location SG9 is further north, between SG1 and the apartment building. Proposed location SG10 is in the vicinity of the building, near SG5.

All samples will be collected at a depth of 5 feet and analyzed for HVOCs using EPA Method TO15 on a normal turn around basis in accordance with procedures set forth in previous work plans for the subject site.

Please call me at your earliest convenience to discuss the results. Thank you!

Best Regards,
Paul King

P&D Environmental, Inc.
510-658-6916

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