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11:47 am, Sep 23, 2010

Alameda County
Environmental Health

September 15, 2010

Mr. Jerry Wickham
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: CRAWL SPACE AIR SAMPLING REPORT CERTIFICATION
ACEH Case # RO 0000357
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

Dear Mr. Wickham:

You will find enclosed one copy of the following document prepared by P&D Environmental, Inc.

- Crawl Space Air Sampling Report (CS4-CS6) dated September 15, 2010 (document 0298.R10).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned work plan for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to call me at (800) 818-7669.

Cordially,
Snow Cleaners, Inc.

Harold Turner
President

Cc: Mr. LeRoy Griffin, Oakland Fire Department, Emergency Services, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612 (with enclosure)

0298.L56

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240
Oakland, CA 94610
(510) 658-6916

September 15, 2010
Report 0298.R10

Mr. Harold Turner
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

SUBJECT: CRAWL SPACE AIR SAMPLING REPORT
(CS4-CS6)
ACDEH Case # RO 0000357
Snow Cleaners
2678 Coolidge Avenue
Oakland, CA

Dear Mr. Turner:

P&D Environmental Inc. (P&D) is pleased to present this report documenting the collection of crawl space air samples at the residential buildings at 3220 Davis Street and 2682 Coolidge Avenue in the vicinity of the subject site. In addition, one ambient air sample was collected at 3319 Davis Street. The samples were collected on August 9, 2010 at locations where air samples had previously been collected on February 19, 2010. This work was performed in accordance with a letter from the Alameda County Department of Environmental Health (ACDEH) dated April 8, 2010. A Site Location Map is attached as Figure 1 and a Site Vicinity Map Detail showing sample collection locations is attached as Figure 2.

All work was performed under the direct supervision of a professional geologist and in accordance with guidelines set forth in the following documents.

- Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" dated August 10, 1990 and "Appendix A - Workplan for Initial Subsurface Investigation" dated August 20, 1991,
- California Code of Regulations Title 23 Sections 2720-2728;
- San Francisco Bay Regional Water Quality Control Board (SFRWQCB) "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater" dated May 2008,
- Department of Toxic Substances Control (DTSC) "Advisory - Active Soil Gas Investigations" dated January 13, 2003,
- DTSC "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" dated December 15, 2004, revised February 7, 2005,
- DTSC "Vapor Intrusion Mitigation Advisory" revised May 8, 2009,
- DTSC "Advisory - Active Soil Gas Investigations" dated March 3, 2010.

BACKGROUND

A detailed site history is provided in P&D's Subsurface Investigation Report dated August 19, 2009 (document 0298.R6). Additional subsequent document review results for historic topographic maps, City of Oakland storm drain and sanitary sewer maps, Alameda County Flood Control District maps and a creek and watershed map of Oakland and Berkeley are provided in P&D's November 24, 2009 Subsurface Investigation Work Plan (document 0298.W4). Additional subsequent results for soil gas sample collection and crawl space air sample collection on February 19, 2010 are provided in P&D's Soil Gas and Crawl Space Air Investigation Report (document 0298.R8) dated March 22, 2010. Historical crawl space air sample results are summarized in Table 1.

FIELD ACTIVITIES

Prior to performing field activities, a health and safety plan was prepared, and site access was obtained from offsite property owners. Notification of the sample collection date was also provided to the ACDEH.

Crawl Space Air Sample Collection

The building construction at 3320 Davis Street and at 2682 Coolidge Avenue is not slab on grade. Both structures were observed to have crawl spaces with no visible means of access to the crawl space other than through mesh-covered ventilation holes measuring approximately 4 inches tall and 12 inches long. On August 9, 2010 two crawl space air samples designated as CS4 and CS5 (previously sampled at locations CS1 and CS2 in February 2010) were collected from the crawl space at 3320 Davis Street and one air sample designated as CS6 (previously sampled at location CS3 in February 2010) was collected from the crawl space at 2682 Coolidge Avenue. In addition, one duplicate crawl space air sample (CS6-DUP) was collected location CS6 at the time that sample CS6 was collected using a stainless steel sampling tee, and one ambient air sample was collected with the flow controller intake at a height of approximately 4.5 feet above the ground surface on the rear porch of the property located at 3319 Davis Street (at the same location previously sampled for ambient air in February 2010). The sample collection locations are shown in Figure 2.

The crawl space air samples and the ambient air sample were collected during business hours into SIM-certified 6-liter Summa canisters equipped with SIM-certified 8-hour flow controllers. The duplicate sample was collected with a SIM-certified stainless steel tee.

The building width at 3320 Davis Street is approximately 30 feet, and the building width at 2682 Coolidge Avenue in the vicinity of SG3 is approximately 12 feet wide. A high density polyethylene tube was secured with wire to the end of a steel rod and the steel rod was inserted through the vents into the crawl spaces so that the end of the tube was located at the crawl space air sample collection locations shown on Figure 2. Following placement of the rod and tubing beneath the building, an air pump was used to purge air from each tube for approximately one minute. The end of each tube was

then connected to a flow controller inlet that was located on top of a Summa canister, and the valve to the Summa canister was then opened for collection of each of the samples.

For the duplicate sample, the end of the tube from the crawl space was connected to the stainless steel tee, and the stainless steel tee was connected to two Summa canisters. After approximately 8 hours, the valves to the Summa canisters were closed, and the Summa canisters were stored in a box and subsequently shipped to the laboratory for extraction and analysis. Chain of custody procedures were observed for all sample handling. Measurements of Summa canister initial and final vacuums, the flow rate during initial purging of the tubing prior to sample collection, beginning and ending sample collection times, and PID readings collected from the sample tubing at the end of sample collection were recorded on Crawl Space Air Sampling Data Sheets that is provided in Appendix A of this report.

No precipitation occurred during the week preceding the soil gas sampling or on the day of soil gas sampling (August 9, 2010). Weather data, including precipitation and barometric pressure for the day of the sampling event and also for the months of July and August 2010 is provided as Appendix B. The weather station is located at the intersection of Encinal Avenue and Lafayette Street in Alameda at an elevation of 15 feet, approximately 2.5 miles to the southeast of the subject site. The subject site is located at an elevation of approximately 135 feet above sea level. An internet link to the weather station information is provided in Appendix B.

LABORATORY RESULTS

All of the crawl space and ambient air samples were analyzed at Air Toxics Limited of Folsom, California for the following analytes.

- VOCs, including PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, vinyl chloride, MTBE, BTEX, and Total Petroleum Hydrocarbons as Gasoline (TPH-G) by modified EPA Method TO15.

The sample results are summarized in table 2 attached with this report. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report as Appendix C.

RISK AND HAZARD EVALUATION

The only complete pathway for exposure at the properties evaluated is considered to be potential vapor intrusion from soil gas to indoor air. In accordance with DTSC guidance recommendations, a concentration of one half of the detection limit was used for compounds that were not detected but which were suspected of potentially being present at the air sample collection locations (PCE for crawl space air samples CS4 and CS6, and PCE, TCE, ethylbenzene, m,p-xylenes, and o-xylenes for the ambient air sample).

Ambient and Crawl Space Air

The incremental risk and hazard from vapor intrusion for the ambient air sample and for each of the crawl space air samples was calculated by using equations identified in Appendix C of the DTSC

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“Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air” dated December 15, 2004, revised February 7, 2005.

The ambient and indoor air incremental risk calculation results are provided in Table 3A, and the ambient and indoor air hazard calculation results are provided in Table 3B. The ambient and indoor air risk and hazard calculation results are summarized in Table 3C.

The cumulative hazard quotient was calculated to be less than one for each of the samples. The incremental risk for each sample was calculated to be as follows.

3320 Davis Street

Sample CS4 - 23 per million.

Sample CS5 - 22 per million.

2682 Coolidge Avenue

Sample CS6 - 38 per million.

Ambient Air

4 per million.

DISCUSSION AND RECOMMENDATIONS

Bay Area Air Quality Management District ambient air monitoring station data was not readily available for comparison with the ambient air or crawl space air sample results.

In accordance with DTSC “Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air” dated December 15, 2004, revised February 7, 2005 Appendix B, the attenuation factor for a building with a crawl space is considered to be 1.0, meaning that no attenuation is considered to occur between the crawl space and the building interior.

The DTSC recommends that when the calculated cumulative incremental risk for indoor air exceeds one per million, or when the calculated cumulative hazard quotient for indoor air exceeds one, that indoor air samples be collected on a semi-annual basis and that permanent sub-slab monitoring points and/or permanent vadose zone monitoring points be installed. However, the DTSC also states that representative samples from two different seasons need to be collected and evaluated prior to determining actual risk and hazard at a site. Crawl space and ambient air samples have now been collected on February 19, 2010 and August 9, 2010 during two different seasons.

Review of Tables 3A and 3B for the most recent sampling event in August 2010 shows that almost all of the risk and almost all of the hazard for each of the samples is from benzene. Similarly, Review of Tables 3A and 3B for the February 2010 sampling event shows that almost all of the risk and almost all of the hazard for each of the samples was also from benzene.

Comparisons of the calculated incremental risk and hazard for the samples collected on February 19, 2010 and August 9, 2010 are provided in Tables 4A and 4B, respectively. Review of Table 4A shows that risk decreased at 3320 Davis Street and in the ambient air sample, and increased at 2682

Coolidge Avenue. However, all of the results obtained in August 2010 are similar to the results obtained in February 2010, and none of the results indicate that mitigation measures are warranted at this time. Similarly, review of Table 4B shows similar trends of decreased hazard at 3320 Davis Street and in the ambient air sample, and increased hazard at 2682 Coolidge Avenue, and that the results obtained in August 2010 are similar to the results obtained in February 2010. None of the calculated hazard values exceed one, indicating that neither mitigation or monitoring are warranted based on hazard values.

In accordance with DTSC guidance, P&D recommends that air sampling be performed at locations previously sampled at six month intervals to verify that future air quality conditions are not changing from the conditions detected to date.

DISTRIBUTION

A copy of this report will be uploaded to the ACDEH website, in accordance with ACDEH requirements. In addition, a copy of this report will be uploaded to the GeoTracker database, and one copy of this report will be mailed to LeRoy Griffin of the City of Oakland Fire Department

LIMITATIONS

This report was prepared solely for the use of Snow Cleaners. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

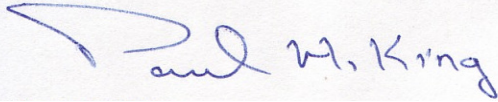
This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

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Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King
President
Professional Geologist #5901
Expires: 12/31/11



Attachments:

Table 1 - Summary of Historical Ambient Air and Crawl Space Air Sample Results
Table 2 - Summary of Ambient Air and Crawl Space Air Sample Results - Current Investigation
Table 3A - Ambient and Indoor Air Risk Calculation Results
Table 3B - Ambient and Indoor Air Hazard Calculation Results
Table 3C - Ambient and Indoor Air Risk and Hazard Calculation Results Summary
Table 4A - Ambient and Indoor Air Risk Calculation Comparison
Table 4B - Ambient and Indoor Air Hazard Calculation Comparison

Figure 1 - Site Location Map

Figure 2 - Site Vicinity Map Detail Showing Sample Collection Locations

Appendix A - Crawl Space Air Sampling Data Sheet

Appendix B - Weather Information

Appendix C - Laboratory Analytical Reports and Chain of Custody Documentation

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TABLES

TABLE 1
SUMMARY OF HISTORICAL AMBIENT AIR AND CRAWL SPACE AIR SAMPLE RESULTS

Sample ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	TPH-SS	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Naphthalene
CS1	2/19/2010	0.38	0.44	ND<0.12	ND<0.60	ND< 0.039	310	4.7	48	9.4	36	11	ND< 4.0
CS1-Lab Duplicate		NA	NA	NA	NA	NA	280	NA	NA	NA	NA	NA	NA
CS2	2/19/2010	1.2	3.2	ND<0.13	ND<0.64	ND< 0.041	300	5.3	50	9.3	35	10	ND< 4.2
CS3	2/19/2010	0.23	ND<0.17	ND<0.12	ND<0.63	ND< 0.040	ND< 230	0.65	3.7	0.77	3.6	1.0	ND< 4.1
CS3-DUP	2/19/2010	ND<0.21	ND<0.17	ND<0.12	ND<0.63	ND< 0.040	ND< 230	0.64	3.9	0.79	3.7	1.0	ND< 4.1
AMBIENT	2/19/2010	ND<0.22	ND<0.17	ND<0.13	ND<0.64	ND< 0.041	ND< 230	0.56	1.3	0.29	0.98	0.34	ND< 4.2
<i>ESL</i>		<i>0.41</i>	<i>1.2</i>	<i>7.3</i>	<i>15</i>	<i>0.031</i>	<i>10</i>	<i>0.084</i>	<i>63</i>	<i>0.98</i>	<i>Combined = 21</i>		<i>0.072</i>
<p>Abbreviations and Notes: PCE = Tetrachloroethene TCE = Trichloroethene cis-1,2-DCE = cis-1,2-Dichloroethene trans-1,2-DCE = trans-1,2-Dichloroethene TPH-SS = Total Petroleum Hydrocarbons as Stoddard solvent. ND = Not Detected. NA = Not Analyzed. ESL= Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table E – Indoor Air Screening Levels (Vapor Intrusion Concerns) for Residential Land Use. Values in bold exceed their respective ESL values. Results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), unless otherwise indicated.</p>													

TABLE 2
SUMMARY OF AMBIENT AIR AND CRAWL SPACE AIR SAMPLE RESULTS - CURRENT INVESTIGATION

Sample ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	m,p-Xylenes	o-Xylenes	Naphthalene
CS4	8/9/2010	ND<0.22	1.3	ND<0.13	ND<0.65	ND< 0.042	570	ND<0.59	1.8	4.0	0.37	1.0	0.56	ND< 4.3
CS5	8/9/2010	0.36	1.7	ND<0.12	ND<0.61	ND< 0.040	530	ND<0.56	1.6	4.1	0.38	1.0	0.56	ND< 4.1
CS6	8/9/2010	ND<0.24	0.64	ND<0.14	ND<0.71	ND< 0.046	1,000	ND<0.64	3.1	2.9	0.39	1.1	0.65	ND< 4.7
CS6-DUP	8/9/2010	ND<0.24	0.64	ND<0.14	ND<0.69	ND< 0.045	1,100	ND<0.63	3.1	2.9	0.39	1.1	0.63	ND< 4.6
AMBIENT	8/9/2010	ND<0.26	ND<0.21	ND<0.16	ND<0.78	ND< 0.050	ND< 200	ND<0.71	0.31, a	0.66	ND<0.17	ND<0.34	ND<0.17	ND< 5.1
<i>ESL</i>		<i>0.41</i>	<i>1.2</i>	<i>7.3</i>	<i>15</i>	<i>0.031</i>	<i>10</i>	<i>9.4</i>	<i>0.084</i>	<i>63</i>	<i>0.98</i>	<i>Combined = 21</i>		<i>0.072</i>
Abbreviations and Notes:														
PCE = Tetrachloroethene														
TCE = Trichloroethene														
cis-1,2-DCE = cis-1,2-Dichloroethene														
trans-1,2-DCE = trans-1,2-Dichloroethene														
TPH-G = Total Petroleum Hydrocarbons as Gasoline.														
MTBE = Methyl tertiary-butyl ether														
ND = Not Detected.														
a = Laboratory Analytical note: Estimated Value.														
ESL= Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), from Table E – Indoor Air Screening Levels (Vapor Intrusion Concerns) for Residential Land Use.														
Values in bold exceed their respective ESL values.														
Results in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), unless otherwise indicated.														

TABLE 3A

AMBIENT AND INDOOR AIR RISK CALCULATION RESULTS

BASED ON AUGUST 9,2010 SAMPLING EVENT ONLY													Calculated		
RESIDENTIAL EXPOSURE SCENARIO													Individual	Calculated	
Formula		Unit Risk Factor	X	Exposure Frequency	X	Exposure Duration	X	Concentration in Air	all divided by	Averaging Time	X	365	Incremental Carcinogenic Risk	Incremental Carcinogenic Risk	Notes
Units		ug/m3		350 days/yr		30 yrs		ug/m3		70 yrs		days/yr			
Location	Compound														
CS4	PCE	5.9E-06		350		30		0.11		70		365	2.6671E-07		Not detected.
	TCE	2.0E-06		350		30		1.3		70		365	1.06849E-06		
	Benzene	2.9E-05		350		30		1.8		70		365	2.1452E-05		
	Toluene	0.0E+00		350		30		4.0		70		365	0.0000E+00		
	Ethylbenzene	2.5E-06		350		30		0.37		70		365	3.8014E-07		
	m,p-Xylenes	0.0E+00		350		30		1.0		70		365	0.0000E+00		
	o-Xylenes	0.0E+00		350		30		0.56		70		365	0.0000E+00	2.3167E-05	
CS5	PCE	5.9E-06		350		30		0.36		70		365	8.72877E-07		
	TCE	2.0E-06		350		30		1.7		70		365	1.39726E-06		
	Benzene	2.9E-05		350		30		1.6		70		365	1.90685E-05		
	Toluene	0.0E+00		350		30		4.1		70		365	0.0000E+00		
	Ethylbenzene	2.5E-06		350		30		0.38		70		365	3.90411E-07		
	m,p-Xylenes	0.0E+00		350		30		1.0		70		365	0.0000E+00		
	o-Xylenes	0.0E+00		350		30		0.56		70		365	0.0000E+00	2.1729E-05	
CS6	PCE	5.9E-06		350		30		0.12		70		365	2.910E-07		Not detected.
	TCE	2.0E-06		350		30		0.64		70		365	5.26027E-07		
	Benzene	2.9E-05		350		30		3.1		70		365	3.695E-05		
	Toluene	0.0E+00		350		30		2.9		70		365	0.000E+00		
	Ethylbenzene	2.5E-06		350		30		0.39		70		365	4.007E-07		
	m,p-Xylenes	0.0E+00		350		30		1.1		70		365	0.000E+00		
	o-Xylenes	0.0E+00		350		30		0.65		70		365	0.000E+00	3.816E-05	
Ambient	PCE	5.9E-06		350		30		0.13		70		365	3.15205E-07		Not detected.
	TCE	2.0E-06		350		30		0.105		70		365	8.63014E-08		Not detected.
	Benzene	2.9E-05		350		30		0.31		70		365	3.69452E-06		
	Toluene	0.0E+00		350		30		0.66		70		365	0.000E+00		
	Ethylbenzene	2.5E-06		350		30		0.085		70		365	8.73288E-08		Not detected.
	m,p-Xylenes	0.0E+00		350		30		0.17		70		365	0.000E+00		Not detected.
	o-Xylenes	0.0E+00		350		30		0.085		70		365	0.000E+00	4.18336E-06	Not detected.
NOTES:															
For dimensional analysis, the Unit Risk Factor units are expressed as 1 over ug/m3, but the Unit Risk Factor value used for calculation is not.															
Unit Risk Factor value obtained from HERD Soil Gas Screening Model VLOOK sheet (last updated 2/4/09).															
Yellow high light indicates compound was not detected and value of one half of the detection limit was used for risk calculation.															
Where duplicate samples were analyzed, the highest concentration for all analyses was used.															

TABLE 3B

AMBIENT AND INDOOR AIR HAZARD CALCULATION RESULTS

BASED ON AUGUST 9,2010 SAMPLING EVENT ONLY																	
RESIDENTIAL EXPOSURE SCENARIO																	
Formula		1 Over Reference Factor Concentration	X	Exposure Frequency	X	Exposure Duration	X	Concentration in Air	X	Conversion of Air Conc from ug/m3 to mg/m3	all divided by	Averaging Time	X	365	Calculated Individual Compound Hazard Quotient	Calculated Cumulative Hazard Quotient	Notes
Units		1/(mg/m3)		350 days/yr		30 yrs		ug/m3		(mg/m3)/(ug/m3)		30 yrs		days/yr			
Location	Compound																
CS4	PCE	28.57		350		30		0.11		0.001		30		365	3.0137E-03		Not detected.
	TCE	1.67		350		30		1.3		0.001		30		365	2.0776E-03		
	Benzene	33.33		350		30		1.8		0.001		30		365	5.7534E-02		
	Toluene	3.33		350		30		4.0		0.001		30		365	1.2785E-02		
	Ethylbenzene	1.0		350		30		0.37		0.001		30		365	3.5479E-04		
	m,p-Xylenes	10		350		30		1.0		0.001		30		365	9.5890E-03		
	o-Xylenes	10		350		30		0.56		0.001		30		365	5.3699E-03	9.0725E-02	
CS5	PCE	28.57		350		30		0.36		0.001		30		365	9.8630E-03		
	TCE	1.67		350		30		1.7		0.001		30		365	2.7169E-03		
	Benzene	33.33		350		30		1.6		0.001		30		365	5.1136E-02		
	Toluene	3.33		350		30		4.1		0.001		30		365	1.3092E-02		
	Ethylbenzene	1.0		350		30		0.38		0.001		30		365	3.6438E-04		
	m,p-Xylenes	10		350		30		1.0		0.001		30		365	9.5890E-03		
	o-Xylenes	10		350		30		0.56		0.001		30		365	5.3699E-03	9.2132E-02	
CS6	PCE	28.57		350		30		0.12		0.001		30		365	3.2877E-03		Not detected.
	TCE	1.67		350		30		0.64		0.001		30		365	1.0228E-03		
	Benzene	33.33		350		30		3.1		0.001		30		365	9.9077E-02		
	Toluene	3.33		350		30		2.9		0.001		30		365	9.2601E-03		
	Ethylbenzene	1.0		350		30		0.39		0.001		30		365	3.7397E-04		
	m,p-Xylenes	10		350		30		1.1		0.001		30		365	1.0548E-02		
	o-Xylenes	10		350		30		0.65		0.001		30		365	6.2329E-03	1.2980E-01	
Ambient	PCE	28.57		350		30		0.13		0.001		30		365	3.5616E-03		Not detected.
	TCE	1.67		350		30		0.105		0.001		30		365	1.6781E-04		Not detected.
	Benzene	33.33		350		30		0.31		0.001		30		365	9.9077E-03		
	Toluene	3.33		350		30		0.66		0.001		30		365	2.1075E-03		
	Ethylbenzene	1.0		350		30		0.085		0.001		30		365	8.1507E-05		Not detected.
	m,p-Xylenes	10		350		30		0.17		0.001		30		365	1.6301E-03		Not detected.
	o-Xylenes	10		350		30		0.085		0.001		30		365	8.1507E-04	1.8271E-02	Not detected.
NOTES:																	
Reference Factor Concentration value obtained from HERD Soil Gas Screening Model VLOOK sheet (last updated 2/4/09).																	
Reference Factor Concentration values used were as follows (values in mg/m3):																	
	PCE	0.035															
	TCE	0.60															
	Benzene	0.03															
	Toluene	0.30															
	Ethylbenzene	1.0															
	m,p-Xylenes																
	o-Xylenes	0.1 is RFC for each m,p,o															
Yellow high light indicates compound was not detected and value of one half of the detection limit was used for hazard calculation.																	
Where duplicate samples were analyzed, the highest concentration for all analyses was used.																	

TABLE 3C

AMBIENT AND INDOOR AIR RISK AND HAZARD CALCULATION RESULTS SUMMARY

BASED ON AUGUST 9,2010 SAMPLING EVENT ONLY						
RESIDENTIAL EXPOSURE SCENARIO						
		Calculated Cumulative	Calculated Cumulative	Calculated Cumulative		Recommendations Based on DTSC-Recommended
Air Sample Designation	Sample Collection Date	Incremental Carcinogenic Risk	Incremental Carcinogenic Risk	Hazard Quotient	Calculated Incremental Carcinogenic Risk Alternate Description	Guidance for Action or Response (Minimum of Two Adequately-Spaced (With Respect To Time) Indoor Air Sampling Events Needed)
CS4	8/9/2010	2.32E-05	0.0000232	0.091	23.2 in a million	Monitoring based on incremental carcinogenic risk
CS5	8/9/2010	2.17E-05	0.0000217	0.092	21.7 in a million	Monitoring based on incremental carcinogenic risk
CS6	8/9/2010	3.82E-05	0.0000382	0.13	38.2 in a million	Monitoring based on incremental carcinogenic risk
Ambient	8/9/2010	4.18E-06	0.00000418	0.018	4.18 in a million	None- sample is outdoor ambient air
NOTES:						
DTSC-Recommended Response Guidelines						
		Risk		Hazard	Response	Activities
		Less than 1 in a million		less than 1.0	Minimal	Determine that the soil vapor plume is stable.
		1 to 100 in a million		1.0 to 3.0	Monitoring	Install permanent subsab monitoring points and collect soil gas samples and indoor air samples semi-annually.
		More than 100 in a million		more than 3.0	Mitigation	Institute engineering controls to mitigate exposure and collect soil gas samples and indoor air samples semi-annually to verify mitigation of exposure.

TABLE 4A

AMBIENT AND INDOOR AIR RISK CALCULATION COMPARISON

BASED ON TWO SAMPLING EVENTS ONLY				
RESIDENTIAL EXPOSURE SCENARIO				
			2/19/2010	8/9/2010
			Calculated	Calculated
			Cumulative	Cumulative
			Incremental	Incremental
Air Sample			Carcinogenic	Carcinogenic
<u>Designation</u>	<u>Address</u>		<u>Risk</u>	<u>Risk</u>
CS1, CS4	3320 Davis St.		6.70E-05	2.32E-05
CS2, CS5	3320 Davis St.		7.83E-05	2.17E-05
CS3, CS6	2682 Coolidge Ave.		9.17E-06	3.82E-05
Ambient	3319 Davis St.		7.31E-06	4.18E-06

TABLE 4B

AMBIENT AND INDOOR AIR HAZARD CALCULATION COMPARISON

BASED ON TWO SAMPLING EVENTS ONLY					
RESIDENTIAL EXPOSURE SCENARIO					
			2/19/2010		8/9/2010
			Calculated		Calculated
			Cumulative		Cumulative
Air Sample			Hazard		Hazard
<u>Designation</u>		<u>Address</u>	<u>Quotient</u>		<u>Quotient</u>
CS1, CS4		3320 Davis St.	0.77		0.091
CS2, CS5		3320 Davis St.	0.81		0.092
CS3, CS6		2682 Coolidge Ave.	0.084		0.13
Ambient		3319 Davis St.	0.038		0.018

FIGURES

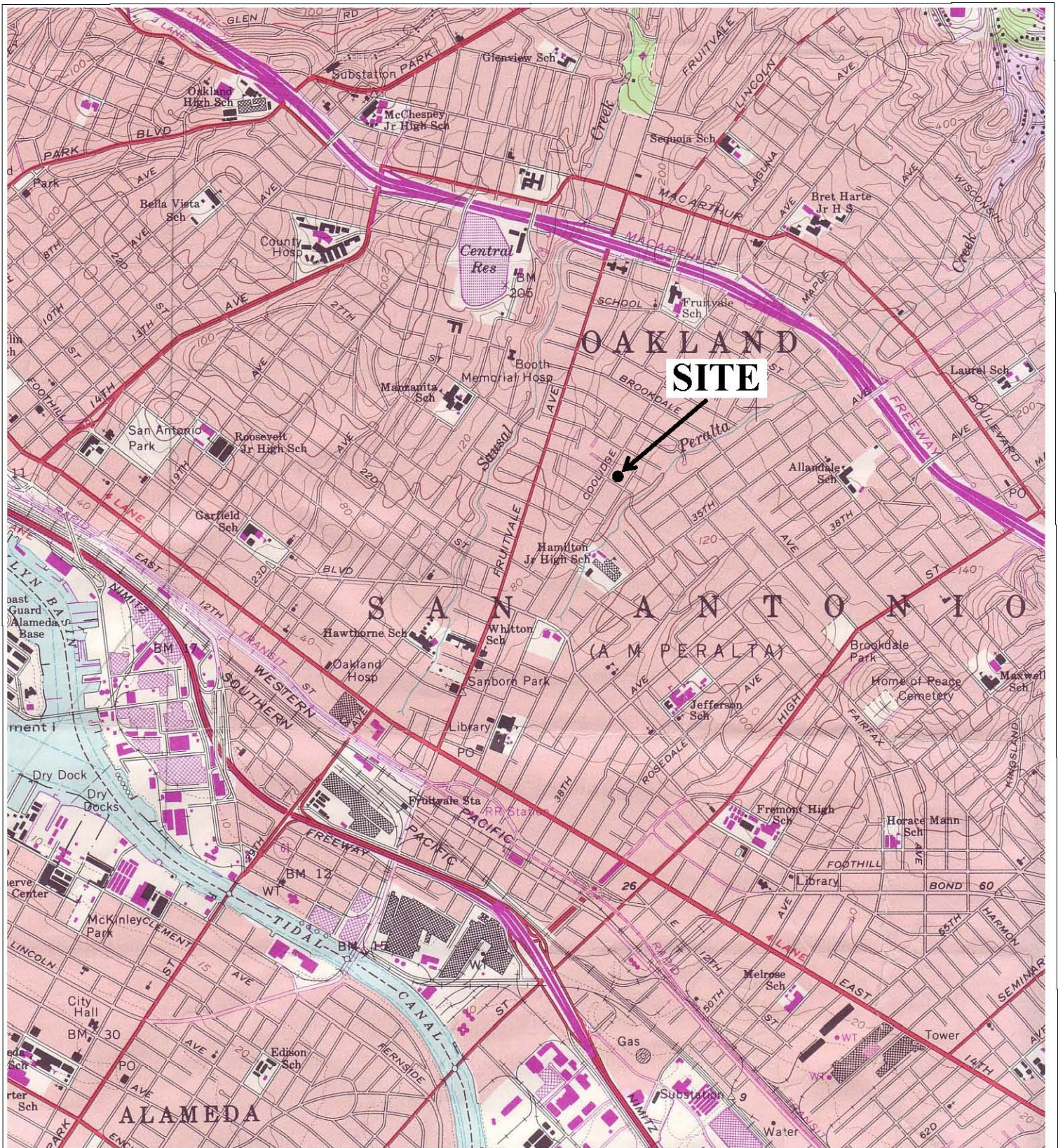


Figure 1
 Site Location Map
 Snow Cleaners
 2678 Coolidge Avenue
 Oakland, California



Base Map From:
 U.S. Geological Survey
 Oakland East, California
 7.5-Minute Quadrangle
 Photorevised 1980

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610



LEGEND

- SG18 Soil Gas Sample Collected by P&D, 2008
- SG23 Soil Gas Sample Collected by P&D, 2010
- CS3 Crawl Space Air Sample Collected by P&D, February and August 2010
- CS6 Crawl Space Air Sample Collected by P&D, February and August 2010
- AMBIENT Ambient Air Sample Collected by P&D, February and August 2010
- MW4 Existing Monitoring Well Location
- B28 Borehole Drilled by P&D, 2008
- H6 Existing Borehole Location
- B36 Proposed Borehole Location
- Planters and Landscaped Areas Containing UST Pit Soil
- Property Line
- Composite Soil Sample Collection Location

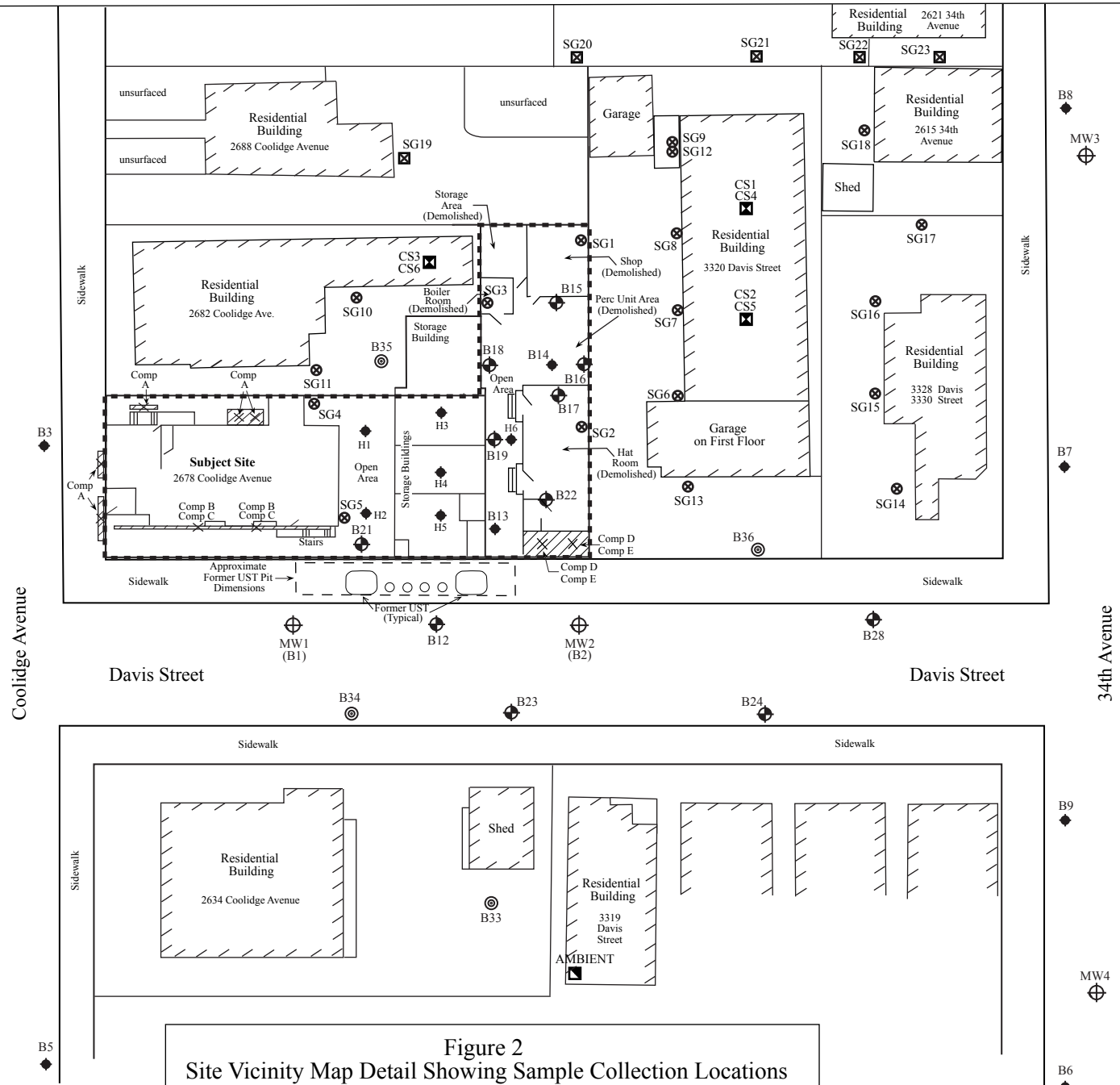
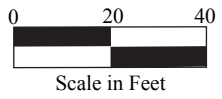


Figure 2
Site Vicinity Map Detail Showing Sample Collection Locations
Snow Cleaners
2678 Coolidge Avenue
Oakland, California

Base Map from:
 Kier & Wright Engineers Surveyors, Inc.
 September 2008 survey

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610



APPENDIX A

Crawl Space Air Sampling Field Data Sheets

CRAWLSPACE AIR

SOIL GAS SAMPLING DATA SHEET

Address **2678 COOLIDGE AVE, OAKLAND**
 Job # **8798**
 Date **8/9/16**
 P&D Sampler **MLO**
 Drilling Company
 Probe Method (check one) **CRAWL SPACE AIR SAMPLE**
 PRT
 Temp Well

Soil Gas Location Designation	Probe Depth (Ft.)	Time Probe Installed	Canister #	Sample Canister Initial Vacuum Check (In. Hg) and time	Start leak check vacuum (In. Hg) and time	End leak check vacuum (In. Hg) and time	ADDITIONAL leak check vacuum (In. Hg) and time	Start PURGE time	End PURGE time	Start of tracer gas equilibration time	Time and conc. (ppm) of tracer gas equilibration	Begin sample collection vacuum (In. Hg) and time	End sample collection vacuum (In. Hg) and time	NOTES
CS4 CS4			23924	vac 29 time 0830	vac time	vac time	vac time	10:05:30	10:06:30		conc.	vac 30 time 10:07:15	vac 7 time 181300	Flow RATE 7204/min PID: 0 ppm
CS5 CS5			21012	vac 29.5 time 0835	vac time	vac time	vac time	10:24:20	10:25:30		conc.	vac 30 time 10:25:30	vac 6 time 182600	Flow RATE 7204/min PID: 0 ppm
CS6 CS6			25257	vac 29.5 time 0840	vac time	vac time	vac time	09:54:00	09:55:00		conc.	vac 30 time 095800	vac 7.5 time 175800	Flow RATE: 7204/min PID: 0 ppm
CS6-DWP CS6-DWP			12941	vac 29.5 time 0845	vac time	vac time	vac time	09:54:00	09:55:00		conc.	vac 30 time 095800	vac 6.5 time 175800	
AMBIENT AMBIENT			35249	vac 28 time 0730	vac time	vac time	vac time				conc.	vac 28.5 time 074300	vac 7 time 182800	
CS4				vac time	vac time	vac time	vac time				conc.	vac time	vac time	
CS5				vac time	vac time	vac time	vac time				conc.	vac time	vac time	
CS6				vac time	vac time	vac time	vac time				conc.	vac time	vac time	
CS6				vac time	vac time	vac time	vac time				conc.	vac time	vac time	
CS6				vac time	vac time	vac time	vac time				conc.	vac time	vac time	
CS6				vac time	vac time	vac time	vac time				conc.	vac time	vac time	
CS6				vac time	vac time	vac time	vac time				conc.	vac time	vac time	

APPENDIX B

Weather Information

About This PWS:

Lat: N 37 ° 46 ' 3 " (37.768 °)
Lon: W 122 ° 15 ' 18 " (-122.255 °)
Elevation (ft): 15
Hardware: Davis Vantage Pro 2
Weather Station Software

Encinal Avenue & Lafayette St., Alameda, CA

<http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=KCAALAME1&graphspan=day&month=8&day=9&year=2010>

[« Previous Day](#)

August	▼	9	▼	2010	▼	View
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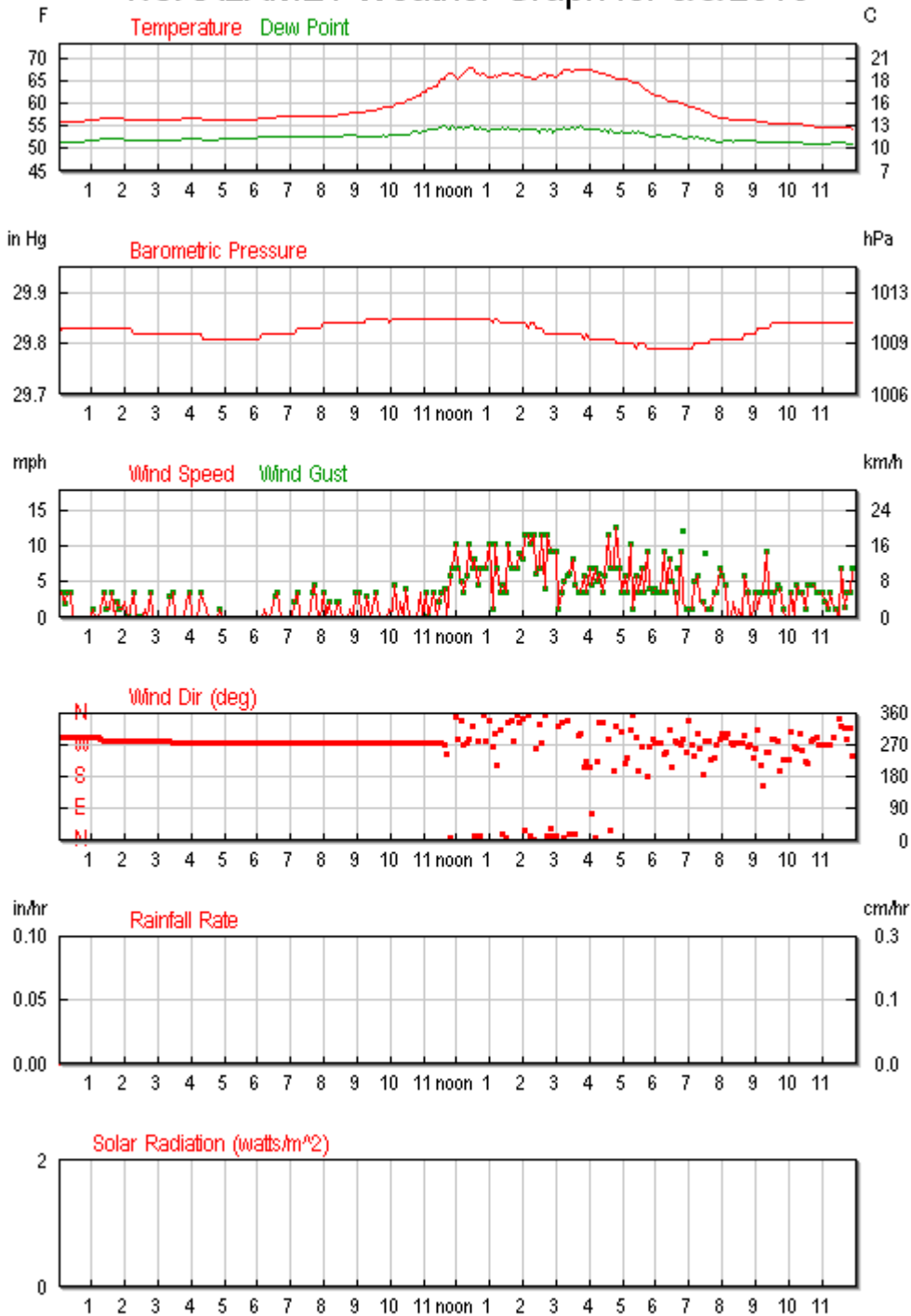
[Next Day »](#)

Daily	Weekly	Monthly	Yearly	Custom
	Current:	High:	Low:	Average:
Temperature:	76.8 °F	68.3 °F	54.7 °F	59.9 °F
Dew Point:	53.2 °F	55.3 °F	51.2 °F	53.0 °F
Humidity:	44%	88%	62%	78%
Wind Speed:	2.3mph	12.7mph	-	3.0mph
Wind Gust:	2.3mph	12.7mph	-	-
Wind:	West	-	-	WNW
Pressure:	29.89in	29.85in	29.79in	-
Precipitation:	0.00in			
Solar Radiation:	497.0			
	watts/m ²			

Statistics for the rest of the month:

	High:	Low:	Average:
Temperature:	102.8 °F	52.6 °F	61.3 °F
Dew Point:	60.7 °F	43.9 °F	53.0 °F
Humidity:	93.0%	15.0%	76.3%
Wind Speed:	23.0mph from the North	-	3.8mph
Wind Gust:	23.0mph from the North	-	-
Wind:	-	-	West
Pressure:	29.98in	29.67in	-
Precipitation:	0.00in		

KCAALAME1 Weather Graph for 8/9/2010



http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=KCAALAME1&day=9&year=2010&month=7&graphspan=month

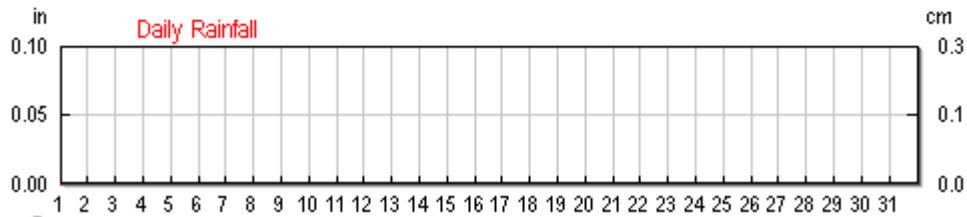
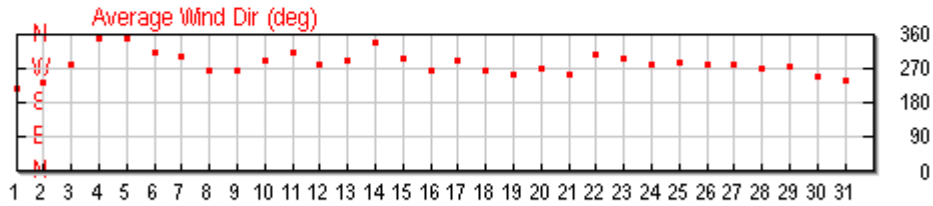
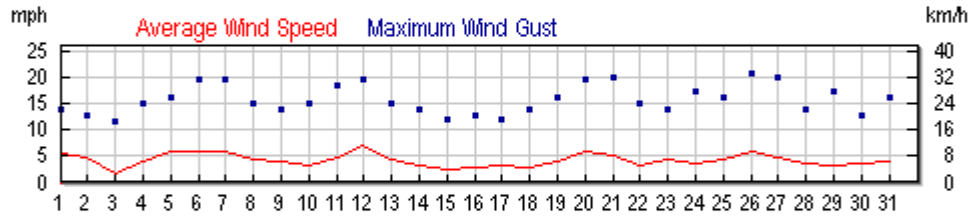
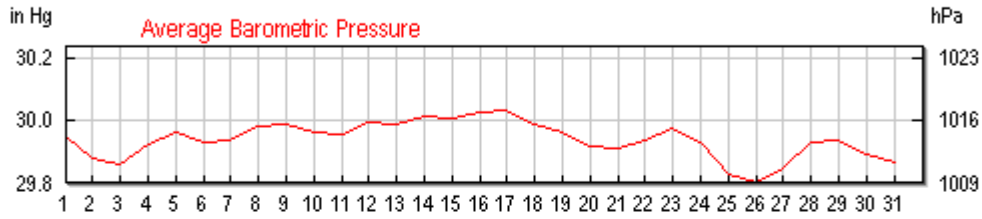
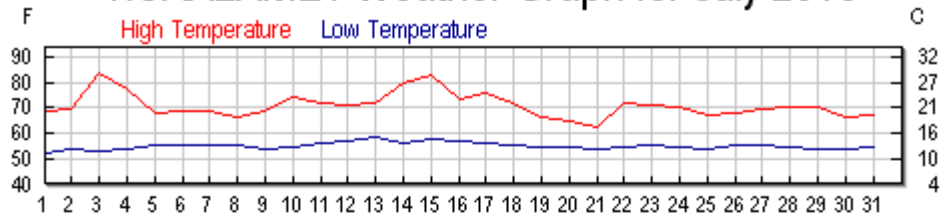
[« Previous Month](#)

[Next Month »](#)

July	▼	9	▼	2010	▼	View
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<u>Daily</u>	<u>Weekly</u>	Monthly	<u>Yearly</u>	<u>Custom</u>
		High:	Low:	Average:
Temperature:		83.8 °F	52.3 °F	61.1 °F
Dew Point:		59.4 °F	45.7 °F	52.7 °F
Humidity:		91.0%	28.0%	75.2%
Wind Speed:		21.0 mph from the SW	-	4.3 mph
Wind Gust:		21.0 mph from the SW	-	-
Wind:		-	-	WNW
Pressure:		30.08 in	29.78 in	-
Precipitation:		0.00 in		

KCAALAME1 Weather Graph for July 2010



<http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=KCAALAME1&day=9&year=2010&month=8&graphspan=month>

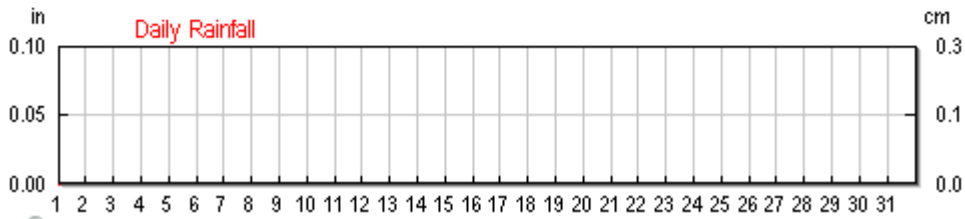
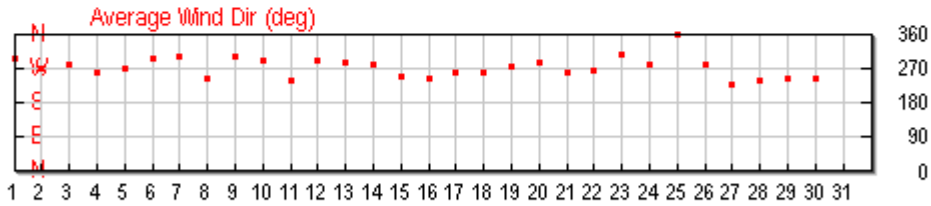
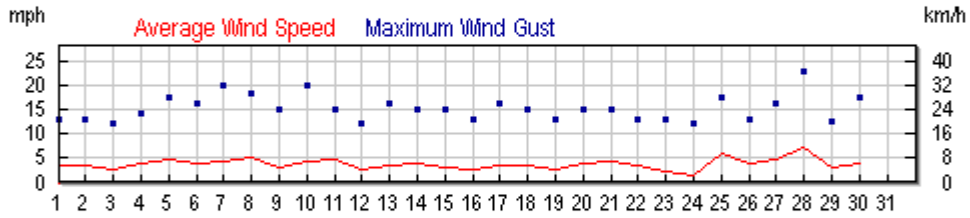
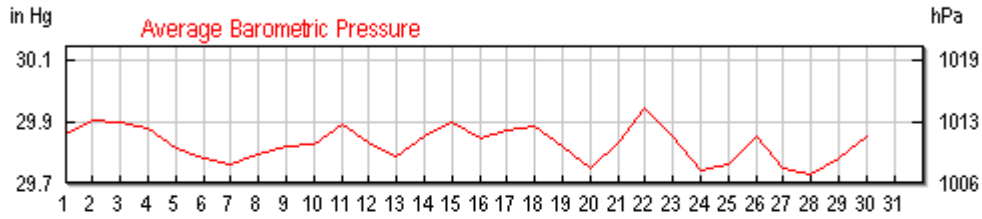
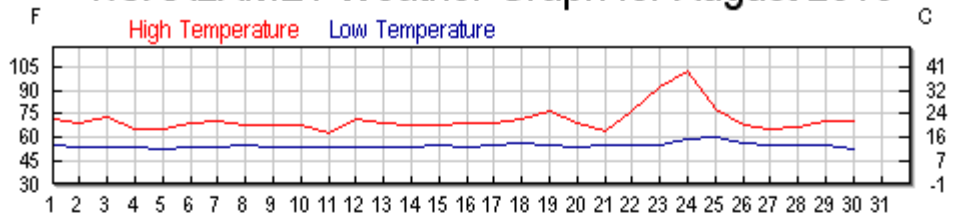
[« Previous Month](#)

[Next Month »](#)

August	▼	9	▼	2010	▼	View
--------	---	---	---	------	---	------

<u>Daily</u>	<u>Weekly</u>	Monthly	<u>Yearly</u>	<u>Custom</u>
		High:	Low:	Average:
Temperature:		102.8 °F	52.6 °F	61.3 °F
Dew Point:		60.7 °F	43.9 °F	53.0 °F
Humidity:		93.0%	15.0%	76.3%
Wind Speed:		23.0mph from the North	-	3.8mph
Wind Gust:		23.0mph from the North	-	-
Wind:		-	-	West
Pressure:		29.98in	29.67in	-
Precipitation:		0.00in		

KCAALAME1 Weather Graph for August 2010



APPENDIX C

Laboratory Analytical Reports and Chain of Custody Documentation

9/20/2010
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: SNOW CLEANERS 2678 COOLIDGE AVE OAKLAND
Project #: 0298.R10
Workorder #: 1008356R1

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 8/16/2010 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,



Kyle Vagadori
Project Manager

WORK ORDER #: 1008356R1

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. #	
FAX:	510-834-0772	PROJECT #	0298.R10 SNOW CLEANERS 2678
DATE RECEIVED:	08/16/2010	CONTACT:	COOLIDGE AVE OAKLAND Kyle Vagadori
DATE COMPLETED:	08/30/2010		
DATE REISSUED:	09/20/2010		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	CS-4	Modified TO-15	5.5 "Hg	5 psi
01B	CS-4	Modified TO-15	5.5 "Hg	5 psi
02A	CS-5	Modified TO-15	4.0 "Hg	5 psi
02B	CS-5	Modified TO-15	4.0 "Hg	5 psi
03A	CS-6	Modified TO-15	7.5 "Hg	5 psi
03B	CS-6	Modified TO-15	7.5 "Hg	5 psi
04A	CS-6 DUP	Modified TO-15	7.0 "Hg	5 psi
04B	CS-6 DUP	Modified TO-15	7.0 "Hg	5 psi
05A	AMBIENT	Modified TO-15	9.5 "Hg	5 psi
05B	AMBIENT	Modified TO-15	9.5 "Hg	5 psi
06A	Lab Blank	Modified TO-15	NA	NA
06B	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
07B	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08B	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 09/20/10

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
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: 07/01/09, Expiration date: 06/30/10

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 Full Scan/SIM
P & D Environmental
Workorder# 1008356R1**

Five 6 Liter Summa Canister (SIM Certified) samples were received on August 16, 2010. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 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>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
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 was missing method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The reported CCV for each daily batch may be derived from more than one 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.

THE WORKORDER WAS REISSUED ON 09-20-10 TO REPORT VINYL CHLORIDE AND NAPHTHALENE PER CLIENT'S REQUEST.

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

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

Client Sample ID: CS-4

Lab ID#: 1008356R1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.033	0.24	0.18	1.3
Benzene	0.082	0.57	0.26	1.8
Toluene	0.033	1.1	0.12	4.0
Ethyl Benzene	0.033	0.086	0.14	0.37
m,p-Xylene	0.066	0.24	0.28	1.0
o-Xylene	0.033	0.13	0.14	0.56

Client Sample ID: CS-4

Lab ID#: 1008356R1-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	41	140	170	570

Client Sample ID: CS-5

Lab ID#: 1008356R1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.031	0.053	0.21	0.36
Trichloroethene	0.031	0.31	0.17	1.7
Benzene	0.078	0.50	0.25	1.6
Toluene	0.031	1.1	0.12	4.1
Ethyl Benzene	0.031	0.087	0.13	0.38
m,p-Xylene	0.062	0.23	0.27	1.0
o-Xylene	0.031	0.13	0.13	0.56

Client Sample ID: CS-5

Lab ID#: 1008356R1-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	39	130	160	530

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

Client Sample ID: CS-6

Lab ID#: 1008356R1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.036	0.12	0.19	0.64
Benzene	0.090	0.98	0.28	3.1
Toluene	0.036	0.78	0.13	2.9
Ethyl Benzene	0.036	0.089	0.16	0.39
m,p-Xylene	0.072	0.25	0.31	1.1
o-Xylene	0.036	0.15	0.16	0.65

Client Sample ID: CS-6

Lab ID#: 1008356R1-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	45	250	180	1000

Client Sample ID: CS-6 DUP

Lab ID#: 1008356R1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.035	0.12	0.19	0.64
Benzene	0.088	0.97	0.28	3.1
Toluene	0.035	0.78	0.13	2.9
Ethyl Benzene	0.035	0.089	0.15	0.39
m,p-Xylene	0.070	0.26	0.30	1.1
o-Xylene	0.035	0.14	0.15	0.63

Client Sample ID: CS-6 DUP

Lab ID#: 1008356R1-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	44	270	180	1100



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

Client Sample ID: AMBIENT

Lab ID#: 1008356R1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.098	0.097 J	0.31	0.31 J
Toluene	0.039	0.17	0.15	0.66

Client Sample ID: AMBIENT

Lab ID#: 1008356R1-05B

No Detections Were Found.

Client Sample ID: CS-4

Lab ID#: 1008356R1-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082623r1	Date of Collection: 8/9/10 6:13:00 PM
Dil. Factor:	1.64	Date of Analysis: 8/27/10 03:14 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.65	Not Detected
Tetrachloroethene	0.033	Not Detected	0.22	Not Detected
Trichloroethene	0.033	0.24	0.18	1.3
Benzene	0.082	0.57	0.26	1.8
Toluene	0.033	1.1	0.12	4.0
Ethyl Benzene	0.033	0.086	0.14	0.37
m,p-Xylene	0.066	0.24	0.28	1.0
o-Xylene	0.033	0.13	0.14	0.56
Methyl tert-butyl ether	0.16	Not Detected	0.59	Not Detected
Vinyl Chloride	0.016	Not Detected	0.042	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	0-0
Toluene-d8	90	0-0
4-Bromofluorobenzene	102	0-0

Client Sample ID: CS-4

Lab ID#: 1008356R1-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082707r1	Date of Collection: 8/9/10 6:13:00 PM
Dil. Factor:	1.64	Date of Analysis: 8/27/10 06:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.82	Not Detected	4.3	Not Detected
TPH ref. to Gasoline (MW=100)	41	140	170	570

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	0-0
Toluene-d8	96	0-0
4-Bromofluorobenzene	103	0-0

Client Sample ID: CS-5

Lab ID#: 1008356R1-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082624r1	Date of Collection: 8/9/10 6:26:00 PM
Dil. Factor:	1.55	Date of Analysis: 8/27/10 03:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Tetrachloroethene	0.031	0.053	0.21	0.36
Trichloroethene	0.031	0.31	0.17	1.7
Benzene	0.078	0.50	0.25	1.6
Toluene	0.031	1.1	0.12	4.1
Ethyl Benzene	0.031	0.087	0.13	0.38
m,p-Xylene	0.062	0.23	0.27	1.0
o-Xylene	0.031	0.13	0.13	0.56
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	0-0
Toluene-d8	93	0-0
4-Bromofluorobenzene	102	0-0

Client Sample ID: CS-5

Lab ID#: 1008356R1-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082708r1	Date of Collection: 8/9/10 6:26:00 PM
Dil. Factor:	1.55	Date of Analysis: 8/27/10 08:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.78	Not Detected	4.1	Not Detected
TPH ref. to Gasoline (MW=100)	39	130	160	530

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	0-0
Toluene-d8	97	0-0
4-Bromofluorobenzene	103	0-0

Client Sample ID: CS-6

Lab ID#: 1008356R1-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082621r1	Date of Collection: 8/9/10 5:58:00 PM
Dil. Factor:	1.79	Date of Analysis: 8/27/10 01:16 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.036	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Tetrachloroethene	0.036	Not Detected	0.24	Not Detected
Trichloroethene	0.036	0.12	0.19	0.64
Benzene	0.090	0.98	0.28	3.1
Toluene	0.036	0.78	0.13	2.9
Ethyl Benzene	0.036	0.089	0.16	0.39
m,p-Xylene	0.072	0.25	0.31	1.1
o-Xylene	0.036	0.15	0.16	0.65
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	0-0
Toluene-d8	91	0-0
4-Bromofluorobenzene	102	0-0

Client Sample ID: CS-6

Lab ID#: 1008356R1-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082709r1	Date of Collection: 8/9/10 5:58:00 PM
Dil. Factor:	1.79	Date of Analysis: 8/27/10 09:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.90	Not Detected	4.7	Not Detected
TPH ref. to Gasoline (MW=100)	45	250	180	1000

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	0-0
Toluene-d8	95	0-0
4-Bromofluorobenzene	102	0-0

Client Sample ID: CS-6 DUP

Lab ID#: 1008356R1-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082622r1	Date of Collection: 8/9/10 5:58:00 PM
Dil. Factor:	1.75	Date of Analysis: 8/27/10 01:52 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.69	Not Detected
Tetrachloroethene	0.035	Not Detected	0.24	Not Detected
Trichloroethene	0.035	0.12	0.19	0.64
Benzene	0.088	0.97	0.28	3.1
Toluene	0.035	0.78	0.13	2.9
Ethyl Benzene	0.035	0.089	0.15	0.39
m,p-Xylene	0.070	0.26	0.30	1.1
o-Xylene	0.035	0.14	0.15	0.63
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	0-0
Toluene-d8	89	0-0
4-Bromofluorobenzene	101	0-0

Client Sample ID: CS-6 DUP

Lab ID#: 1008356R1-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082710r1	Date of Collection: 8/9/10 5:58:00 PM
Dil. Factor:	1.75	Date of Analysis: 8/27/10 10:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.88	Not Detected	4.6	Not Detected
TPH ref. to Gasoline (MW=100)	44	270	180	1100

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	0-0
Toluene-d8	94	0-0
4-Bromofluorobenzene	102	0-0

Client Sample ID: AMBIENT

Lab ID#: 1008356R1-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082625r1	Date of Collection:	8/9/10 6:28:00 PM
Dil. Factor:	1.96	Date of Analysis:	8/27/10 04:21 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.039	Not Detected	0.16	Not Detected
trans-1,2-Dichloroethene	0.20	Not Detected	0.78	Not Detected
Tetrachloroethene	0.039	Not Detected	0.26	Not Detected
Trichloroethene	0.039	Not Detected	0.21	Not Detected
Benzene	0.098	0.097 J	0.31	0.31 J
Toluene	0.039	0.17	0.15	0.66
Ethyl Benzene	0.039	Not Detected	0.17	Not Detected
m,p-Xylene	0.078	Not Detected	0.34	Not Detected
o-Xylene	0.039	Not Detected	0.17	Not Detected
Methyl tert-butyl ether	0.20	Not Detected	0.71	Not Detected
Vinyl Chloride	0.020	Not Detected	0.050	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	0-0
Toluene-d8	93	0-0
4-Bromofluorobenzene	91	0-0

Client Sample ID: AMBIENT

Lab ID#: 1008356R1-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082711r1	Date of Collection: 8/9/10 6:28:00 PM
Dil. Factor:	1.96	Date of Analysis: 8/27/10 10:47 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.98	Not Detected	5.1	Not Detected
TPH ref. to Gasoline (MW=100)	49	Not Detected	200	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	0-0
Toluene-d8	94	0-0
4-Bromofluorobenzene	101	0-0

Client Sample ID: Lab Blank

Lab ID#: 1008356R1-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082607	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/26/10 12:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	83	70-130

Client Sample ID: Lab Blank

Lab ID#: 1008356R1-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/27/10 05:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	0.50	Not Detected	2.6	Not Detected
TPH ref. to Gasoline (MW=100)	25	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: CCV

Lab ID#: 1008356R1-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/26/10 09:02 AM

Compound	%Recovery
cis-1,2-Dichloroethene	87
trans-1,2-Dichloroethene	90
Tetrachloroethene	95
Trichloroethene	93
Benzene	108
Toluene	102
Ethyl Benzene	110
m,p-Xylene	104
o-Xylene	103
Methyl tert-butyl ether	83
Vinyl Chloride	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: CCV

Lab ID#: 1008356R1-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/27/10 01:58 PM

Compound	%Recovery
Naphthalene	125
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 1008356R1-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	c082603	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	8/26/10 09:42 AM

Compound	%Recovery
cis-1,2-Dichloroethene	80
trans-1,2-Dichloroethene	84
Tetrachloroethene	90
Trichloroethene	85
Benzene	99
Toluene	91
Ethyl Benzene	105
m,p-Xylene	99
o-Xylene	98
Methyl tert-butyl ether	78
Vinyl Chloride	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: LCS

Lab ID#: 1008356R1-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	u082703	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/27/10 02:43 PM

Compound	%Recovery
Naphthalene	119
TPH ref. to Gasoline (MW=100)	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 0298, R10		PROJECT NAME: SNOW CLEANERS 2678 COOLIDGE AVE. OAKLAND			NUMBER OF CONTAINERS	ANALYSIS(ES):	PRESERVATIVE	REMARKS
SAMPLED BY: (PRINTED AND SIGNATURE) MICHAEL DESCHENES <i>Michael Deschenes</i>								
SAMPLE NUMBER	DATE	TIME	TYPE	INIT. VACUUM	SAMPLE LOCATION SUMMA #	FINAL VACUUM		
O1A • CS-4	8/9/10	181300	AIR	-30	SUMMA#23924	-7	1	PID: 0 PPM
O2A • CS-5	8/9/10	182600	↓	-30	21012	-6	1	PID: 0 PPM
O3A • CS-6	8/9/10	175200	↓	-30	25257	-7.5	1	PID: 0 PPM
O4A • CS-6 DUP	8/9/10	175300	↓	-30	12941	-6.5	1	
O5A • AMBIENT	8/9/10	182800	AIR	-28.5	35249	-7	1	
RELINQUISHED BY: (SIGNATURE) <i>Michael Deschenes</i>		DATE 8/9/10	TIME 1020	RECEIVED BY: (SIGNATURE) <i>Monica Green</i>		TOTAL NO. OF SAMPLES (THIS SHIPMENT) 5	TOTAL NO. OF CONTAINERS (THIS SHIPMENT) 5	LABORATORY: AIR TOXICS, LTD.
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE) <i>Kyle Vagadri</i>		LABORATORY CONTACT: KYLE VAGADRI	LABORATORY PHONE NUMBER: (916) 985-1000	
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>ML 8/10/10</i>		SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO		
Results and billing to: P&D Environmental, Inc. lab@pdenviro.com				REMARKS: CUSTODY SEAL INTACT? Y N <input checked="" type="checkbox"/> NONE TEMP <i>ML</i>		1050		

O1A •
O2A •
O3A •
O4A •
O5A •

Fed Ex