

WEINGARTEN REALTY

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Houston, TX 77008
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www.weingarten.com

RECEIVED

By Alameda County Environmental Health 2:00 pm, Oct 03, 2016

Mr. Gabe Stivala, P.G
Cardno ATC
701 University Drive Suite 701
Sacramento, CA 95825

**Subject: Indoor Air Assessment Report
580 Market Place Shopping Center
Alameda County LOP No. RO 3097**

Dear Mr. Stivala:

I have reviewed and approved the subject report. Please submit it to the regulatory agencies listed in the distribution section of the report. Should any of the agencies require it, I am prepared to declare, under penalty of perjury, that to the best of my knowledge, the information contained in the report is true and correct.

Sincerely,



Charles Gurney

Weingarten Realty Investors

2600 Citadel Plaza Drive, Suite 300

Houston, Texas 77008

Date:

9/27/16

People-to-People. Coast-to-Coast.

Weingarten Realty is the trade name of Weingarten Realty Investors (the "trust") which is an unincorporated trust organized under the Texas Real Estate Investment Trust Act. Neither the shareholders of the trust, nor its trust managers, officers, employees or other agents are personally, corporately or individually liable for any debt, act, omission, or obligation of the trust, and all persons having claims of any kind against the trust must look solely to the property of the trust for the enforcement of their rights.

September 27, 2016

Ms. Karel Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

SUBJECT **Indoor Air Assessment Report**
580 Market Place
3735 East Castro Valley Boulevard
Alameda County LOP No. RO 3097

Dear Ms. Detterman:

On behalf of Weingarten Realty Investors (Weingarten), ATC Group Services LLC (ATC) conducted indoor air assessment at the subject site. The sampling was performed at the request of Alameda County Environmental Health (ACEH) in a conference call between ACEH, Weingarten, and ATC on July 6, 2016. This sampling was performed to address concerns regarding previously reported trichloroethene (TCE) indoor air concentrations exceeding screening levels established in the San Francisco Bay Regional Water Quality Control Board's Summary Table E3, 2016 Environmental Screening Levels (ESLs) for Commercial/Industrial Indoor Air, and United States Environmental Protection Agency (EPA) Region 9 Interim TCE Indoor Air Response Action Levels for Commercial TCE Inhalation Exposure from Vapor Intrusion (EPA, 2014). Exceedances were reported for samples AI-1 and AI-2 collected from the DryClean 580 tenant unit on March 3, 2016 and had TCE concentrations of 19 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and 7.2 $\mu\text{g}/\text{m}^3$, respectively; the ESL is 3.0 $\mu\text{g}/\text{m}^3$ and the EPA Response Action Level for an 8-hour work day is 8.0 $\mu\text{g}/\text{m}^3$.

This Indoor Air Assessment Report summarizes indoor air sampling performed on August 4, 2016. The indoor air sampling methods used were in general accordance with ATC's *Indoor Air Quality Assessment Work Plan* (Scope of Work), emailed on October 31, 2014 (ATC, 2014a) and later submitted to ACEH on December 19, 2014, and the *Sub-Slab Vapor and Indoor Air Assessment Work Plan Addendum* (Work Plan), dated December 5, 2014. The Work Plan was revised in response to the ACEH directive letter dated November 17, 2014 for the Scope of Work. The ACEH approved the Scope of Work and Work Plan, upon contingent submittals via email dated January 8, 2015. The ACEH requested an additional round of sampling using the 2014 work plan on January 14, 2016.



SITE DESCRIPTION

The site is located in the 580 Market Place Shopping Center in Castro Valley, California (**Figure 1**) and the study area consists of the tenant units in the vicinity of the DryClean 580 as well as the paved areas south of these units. An extended Site Plan illustrating the layout of pertinent areas of the shopping center is shown on **Figure 2**. The assessment target for this report is the DryClean 580 facility. For this specific indoor air sampling event, samples were collected from the DryClean 580 tenant unit only.

PRIOR INVESTIGATION

On March 4, 2015, ATC conducted indoor air and ambient outdoor air sampling. Indoor air sampling preparations were also started on this date, and indoor and outdoor air samples were subsequently collected on March 2 and March 3, 2016. As discussed in the introduction of this report, TCE concentrations in DryClean 580 tenant space exceeded applicable screening levels for TCE. No other exceedances were reported.

APPLICABLE SCREENING LEVELS

ATC compared the analytical results to San Francisco Bay Regional Water Quality Control Board's Summary Table E3, 2016 ESLs for Commercial/Industrial Indoor Air, the California Department of Toxic Substance Control (DTSC) Human Health Risk Assessment (HHRA) HERO Health Note Number 5, dated August 23, 2014, and EPA Region 9 Interim TCE Indoor Air Response Action Levels for Commercial TCE Inhalation Exposure from Vapor Intrusion (EPA, 2014).

INDOOR AND OUTDOOR AIR SAMPLING

Pre-Sampling Identification and Removal of Chemical Products

ATC met onsite with tenants of the Dryclean 580 unit on July 29, 2016 and conducted a visual inventory of the products stored in the units that could affect the indoor air results. The tenants were provided instructions regarding removal of products or storage and non-use of products and chemicals, until completion of the assessment. ATC identified numerous chemical products (spot removers, etc.) stored in the Dryclean 580 unit. The products were surveyed, removed from the active dry cleaning area, and stored in airtight plastic containers. Two 5-gallon drums of the main dry cleaning product (Exxon 2000) is used during daily operations and could not be removed.

Air Sample Collection

The indoor air samples were collected in 6-liter Summa™ canisters that were supplied and individually-certified clean by the analytical laboratory. Each canister was fitted with a regulator that was individually-certified clean and was calibrated by the laboratory to ensure air sample collection over 8-hour period. Per request by the ACEH, the sampling was conducted during work hours to assess air quality under typical tenant working conditions. The sampling occurred with the rear door of the tenant unit open, as that is typical operating procedure for this tenant.

The initial vacuum of each canister was verified to be between 25 and 30 inches of mercury. Indoor and Outdoor air sampling locations are shown on **Figure 2**. Air samples were collected at the following locations:

- On August 4, 2016 from approximately 0915 hours to 1715 hours, two indoor air samples (IA1 and IA2) were collected from DryClean 580. Samples were collected at 4 to 5 feet above the floor in the central area of the building and southeast area of the building (**Figure 2**).
- Final canister vacuums were approximately 1 to 2 inches of mercury upon termination of sampling.

The air samples for this site identified using the following designation system:

- IA indicates the sample matrix is indoor air.
- OA indicates the sample matrix is outside air.

Note that the summa canister for the outdoor sample was stolen during the sampling period, therefore, there is no outdoor sampling result.

Results from this event are summarized in Tables 1A through 1D.

Indoor Air Sampling Results – DryClean 580

Laboratory analytical results for this event are summarized in Tables 2A through 2D and select results are illustrated on Figures 3 through 9. The analytical results from the indoor air samples collected on August 4, 2016 indicated that:

- TCE was reported in indoor air at concentrations below the method detection limit (MDL) of $0.55 \mu\text{g}/\text{m}^3$, which is below the ESL ($3.0 \mu\text{g}/\text{m}^3$) and the EPA Response Action Level for an 8-hour work day ($8.0 \mu\text{g}/\text{m}^3$).
- PCE was reported at concentrations below the MDL of $0.69 \mu\text{g}/\text{m}^3$, which is below the ESL ($2.1 \mu\text{g}/\text{m}^3$).
- Carbon tetrachloride was reported in indoor air at concentrations below the method detection limit (MDL) of $0.32 \mu\text{g}/\text{m}^3$, which appears somewhat elevated due to other compounds interfering. The MDL exceeds the ESL ($0.29 \mu\text{g}/\text{m}^3$).
- Total Petroleum Hydrocarbons in the gasoline range (TPHg) was reported at a concentration of $420 \mu\text{g}/\text{m}^3$ in the sample collected from IA1 and at a concentration of $980 \mu\text{g}/\text{m}^3$ in the sample collected from IA2, neither of which exceed the ESL ($2,500 \mu\text{g}/\text{m}^3$).
- Benzene was reported at concentrations of $0.39 \mu\text{g}/\text{m}^3$ and $0.36 \mu\text{g}/\text{m}^3$ from in the samples collected from IA1 and IA2, respectively. Neither of the two samples exceeded the ESL ($0.42 \mu\text{g}/\text{m}^3$).
- 1,1,1-trichloroethane (TCA), chloroform, and chloromethane (among other volatile organic compounds [VOCs] and halogenated VOCs [HVOCs]) were reported in the indoor air samples from the Dryclean 580 unit at concentrations below their respective ESLs



Outdoor Air Sampling Results

Analytical results from the outdoor air sample collected on August 4, 2016 were not available due to the theft of the sample container during sampling.

Background Outdoor Air Quality

ATC obtained outdoor air quality data from the Bay Area Air Quality Management District (BAAQMD) for two stations nearest to the site. The two BAAQMD stations are located in East Oakland and Livermore, California. Air quality data for select VOCs and HVOCs from February 2010 through December 2014 are summarized on Tables 2A through 2C.

The background outdoor air quality data was compared with the sampling data collected at the 580 Market Place Shopping Center between March 2015 and August 2016 and indicated the following:

- The average background concentrations for methylene chloride were 0.65 $\mu\text{g}/\text{m}^3$ (Livermore) and 0.70 $\mu\text{g}/\text{m}^3$ (East Oakland), while the reported indoor air concentrations were similar or lower, ranging from ($<0.35 \mu\text{g}/\text{m}^3$ to 0.75 $\mu\text{g}/\text{m}^3$).
- The average background PCE concentrations reported regionally were 0.11 $\mu\text{g}/\text{m}^3$ and 0.17 $\mu\text{g}/\text{m}^3$, while the reported indoor air concentrations were generally higher, ranging from $<0.69 \mu\text{g}/\text{m}^3$ to 3.3 $\mu\text{g}/\text{m}^3$.
- The average regional TCE concentrations were 0.01 $\mu\text{g}/\text{m}^3$ and 0.05 $\mu\text{g}/\text{m}^3$, while indoor air concentrations ranged from $<0.55 \mu\text{g}/\text{m}^3$ to 19 $\mu\text{g}/\text{m}^3$.
- The average regional carbon tetrachloride concentration reported regionally was 0.67 $\mu\text{g}/\text{m}^3$ (Liverpool and East Oakland) are higher than the reported indoor air concentrations ($<0.32 \mu\text{g}/\text{m}^3$ to 0.57 $\mu\text{g}/\text{m}^3$).

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the recent indoor air sampling in the DryClean 580 tenant unit, ATC concludes the following:

- Some VOCs were present in reportable concentrations in the indoor air samples; however, the concentrations did not exceed applicable ESLs. Note that, though no concentration were reported for carbon tetrachloride above the MDL, the reporting limit of this compound slightly exceeded the applicable ESL due to other compounds interfering with the sample results.
- TCE was not detected in indoor air above the reporting limit of $<0.69 \mu\text{g}/\text{m}^3$, the ESL (3.0 $\mu\text{g}/\text{m}^3$), or the EPA Response Action Level for an 8-hour work day (8.0 $\mu\text{g}/\text{m}^3$).
- Other HVOCs were below reportable levels or were below applicable screening levels.

ATC concludes that the current indoor air results for the Dry Clean 580 facility are generally lower and indicate that current indoor air quality poses no risk to human health in this commercial setting. ATC recommends an additional sampling event during the first quarter of 2017 to further evaluate potential seasonal variations.

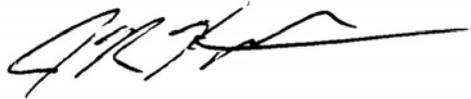
If results of the first quarter 2017 sampling are below applicable screening levels, ATC recommends the site be considered for case closure.

LIMITATIONS

For documents cited that were not generated by ATC, the data taken from those documents is used “as is” and is assumed to be accurate. ATC does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents. This document and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability, and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

Please contact Mr. Gabe Stivala, ATC’s Senior Project Manager for this site, at (916) 923-1097 or at gabe.stivala@atcassociates.com with any questions regarding this report.

Sincerely,



James Kundert
Staff Geologist
for ATC Group Services
Direct: 209 579 2221
Email: jim.kundert@atcasociates.com



Gabe Stivala, P.G.
Senior Project Manager
for ATC Group Services
Direct: 916 724 5247
Email: gabe.stivala@atcassociates.com



Enclosures:

References

Acronym List

Figure 1 Site Vicinity Map

Figure 2 Site Plan

Table 1A Indoor Air and Outdoor Air Analytical Results - HVOCS

Table 1B Indoor Air and Outdoor Air Analytical Results - HVOCS

Table 1C Indoor Air and Outdoor Air Analytical Results – Atmospheric Gases and Hydrocarbons

Table 1D Indoor Air and Outdoor Air Analytical Results - VOCS

Appendix A Field Data Sheets

Appendix B Laboratory Analytical Reports

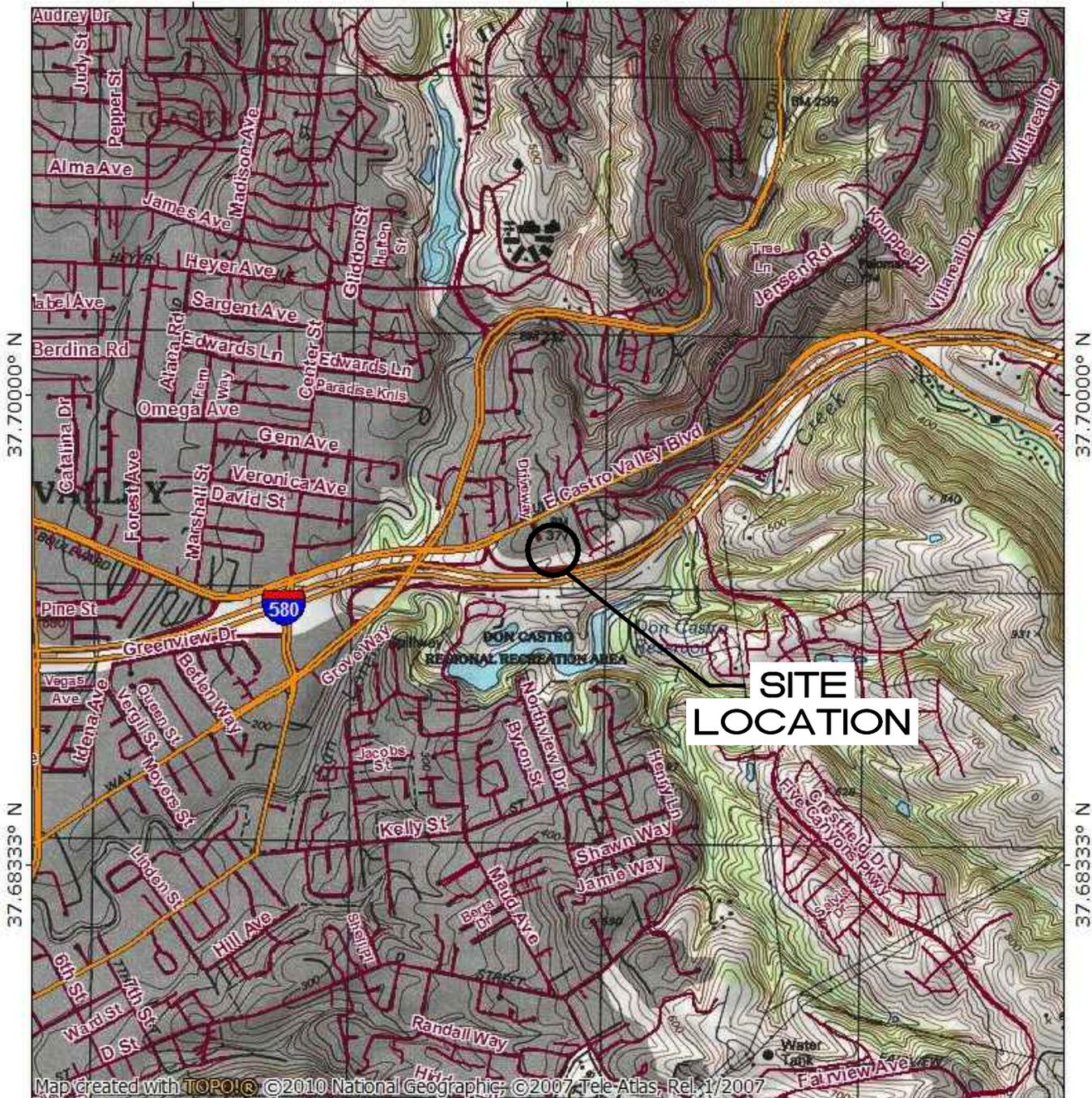


FIGURES

122.06667° W

122.05000° W

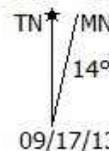
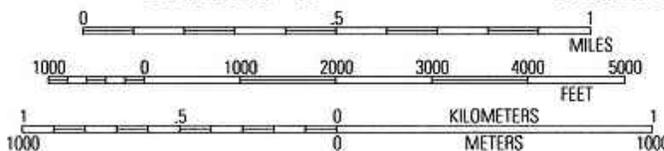
WGS84 122.03333° W



122.06667° W

122.05000° W

WGS84 122.03333° W



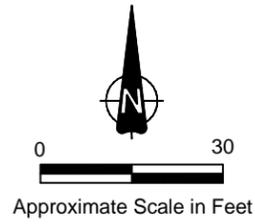
SOURCE: USGS TOPO MAP, HAYWARD, CA QUAD, 1996

SITE VICINITY MAP

580 MARKET PLACE SHOPPING CENTER
 3735 - 4065 CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CA

PROJECT NUMBER: 1191600012	DATE: 3/10/16	FIGURE
APPROVED BY: GS	DRAWN BY: BK	1

ATC 915 Highland Point Dr., Ste. 250
 Roseville, California 95678
 Ph: (916) 924-5247 *** Fax: (916) 724-5201



LEGEND

IAA-1 ● Indoor Air Sample

NOTES

SITE PLAN WITH ANALYTICAL DATA

PCE
 DRY CLEAN 580
 3735 E. Castro Valley Boulevard
 Castro Valley, CA

PROJECT NUMBER: 2386

DATE: 02/01/2016

FIGURE

APPROVED BY: AH

DRAWN BY: CC

PCE



3261 S. Higuera Street, Suite 200
 San Luis Obispo, CA 93401

Ph: (805) 543-7007 *** Fax: (805) 543-7027



TABLES

**TABLE 1A
INDOOR AIR ANALYTICAL RESULTS - HVOCs**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 1 of 2)

Sample ID	Date	Dichlorodifluoro-methane		Methylene Chloride		Tetrachloro-ethene		Trichloro-ethene		1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-Trifluoroethane		Trichlorofluoro-methane		Vinyl Chloride		Add'l HVOCs	
		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)	
		EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																			
Commercial/Industrial		---	---	12	12	2.1	2.1	3.0	3.0	4,400	4,400	---	---	---	---	0.16	0.16	---	
Human Health Risk Assessment Note Number 3 (DTSC, 2014)																			
Industrial		---	---	12.3	12	2.08	2.08	---	---	4,380	4,380	---	---	---	---	0.157	0.157	---	
Interim TCE Indoor Air Response Action Levels (EPA, 2014)																			
Commercial/Industrial Accelerated Response Action Level																			
8-hour Work Day		---	---	---	---	---	---	8	8	---	---	---	---	---	---	---	---	---	---
10-hour Work Day		---	---	---	---	---	---	7	7	---	---	---	---	---	---	---	---	---	---
Commercial/Industrial Urgent Response Action Level																			
8-hour Work Day		---	---	---	---	---	---	24	24	---	---	---	---	---	---	---	---	---	---
10-hour Work Day		---	---	---	---	---	---	21	21	---	---	---	---	---	---	---	---	---	---
Background Outdoor Air																			
Livermore (BAAQMD)																			
Minimum		---	---	0	0	0	0	0	0	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.65	0.65	0.11	0.11	0.0098	0.0098	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	4.14	4.14	2.11	2.11	0.11	0.11	---	---	---	---	---	---	---	---	---	---
East Oakland (BAAQMD)																			
Minimum		---	---	0	0	0	0	0	0	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.70	0.70	0.17	0.17	0.05	0.05	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	7.71	7.71	0.82	0.82	1.45	1.45	---	---	---	---	---	---	---	---	---	---

Dry Clean 580 Unit

IA1	03/05/15	2.9	1.9	<17	0.55	<3.4	0.58	3.0	3.1	<2.7	0.14	<11	0.51	<5.6	1.1	<1.3	<0.026	ND
IA1 Dup	03/05/15	2.9	2.0	<17	0.43	<3.4	0.65	3.5	3.5	<2.7	0.16	<11	0.52	<5.6	1.1	<1.3	<0.026	ND
IA1	03/02/16	2.1	NA	<0.71	NA	<1.4	NA	19	NA	<1.1	NA	<1.5	NA	1.6	NA	<0.26	NA	ND
IA1	08/04/16	1.9	NA	<0.35	NA	<0.69	NA	<0.55	NA	<0.55	NA	<0.77	NA	1.1	NA	<0.13	NA	ND
IA2	03/05/15	2.9	1.9	<17	0.51	<3.4	0.43	<2.7	1.2	<2.7	<0.14	<11	0.51	<5.6	1.0	<1.3	<0.026	ND
IA2	03/02/16	<2.0	NA	<0.71	NA	<1.4	NA	7.2	NA	<1.1	NA	<1.5	NA	1.5	NA	<0.26	NA	ND
IA2	08/04/16	1.6	NA	<0.35	NA	<0.69	NA	<0.55	NA	<0.55	NA	<0.77	NA	0.85	NA	<0.13	NA	ND

Verizon

3935 East Castro Valley Boulevard

IAV1	03/05/15	2.9	2.0	<17	0.30	<3.4	1.5	<2.7	0.25	<2.7	<0.14	<11	0.40	<5.6	1.1	<1.3	<0.026	ND
IAV1	03/02/16	2.0	NA	0.50	NA	3.3	NA	<0.55	NA	<0.55	NA	<0.77	NA	1.8	NA	<0.13	NA	ND
IAV2	03/05/15	2.8	1.9	<17	0.64	<3.4	1.4	<2.7	0.31	<2.7	<0.14	<11	0.52	<5.6	1.1	<1.3	<0.026	ND
IAV2	03/02/16	<2.0	NA	0.75	NA	<1.4	NA	<1.1	NA	<1.1	NA	<1.5	NA	1.3	NA	<0.26	NA	ND

AT&T

3949 East Castro Valley Boulevard

IAA1	03/05/15	2.9	2.0	<17	0.68	<3.4	0.63	<2.7	0.43	<2.7	<0.14	<11	0.53	<5.6	1.1	<1.3	<0.026	ND
IAA1	03/02/16	1.6	NA	0.49	NA	<0.69	NA	<0.55	NA	<0.55	NA	<0.77	NA	1.5	NA	<0.13	NA	ND

**TABLE 1A
INDOOR AIR ANALYTICAL RESULTS - HVOCs**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 2 of 2)

Sample ID	Date	Dichlorodifluoro-methane		Methylene Chloride		Tetrachloro-ethene		Trichloro-ethene		1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-Trifluoroethane		Trichlorofluoro-methane		Vinyl Chloride		Add'l HVOCs	
		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)		(µg/m³)	
		EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																			
Commercial/Industrial		---	---	12	12	2.1	2.1	3.0	3.0	4,400	4,400	---	---	---	---	0.16	0.16	---	
Human Health Risk Assessment Note Number 3 (DTSC, 2014)																			
Industrial		---	---	12.3	12	2.08	2.08	---	---	4,380	4,380	---	---	---	---	0.157	0.157	---	
Interim TCE Indoor Air Response Action Levels (EPA, 2014)																			
Commercial/Industrial Accelerated Response Action Level																			
8-hour Work Day		---	---	---	---	---	---	8	8	---	---	---	---	---	---	---	---	---	---
10-hour Work Day		---	---	---	---	---	---	7	7	---	---	---	---	---	---	---	---	---	---
Commercial/Industrial Urgent Response Action Level																			
8-hour Work Day		---	---	---	---	---	---	24	24	---	---	---	---	---	---	---	---	---	---
10-hour Work Day		---	---	---	---	---	---	21	21	---	---	---	---	---	---	---	---	---	---
Background Outdoor Air																			
Livermore (BAAQMD)																			
Minimum		---	---	0	0	0	0	0	0	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.65	0.65	0.11	0.11	0.0098	0.0098	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	4.14	4.14	2.11	2.11	0.11	0.11	---	---	---	---	---	---	---	---	---	---
East Oakland (BAAQMD)																			
Minimum		---	---	0	0	0	0	0	0	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.70	0.70	0.17	0.17	0.05	0.05	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	7.71	7.71	0.82	0.82	1.45	1.45	---	---	---	---	---	---	---	---	---	---

Outdoor Air

OA1	03/05/15	2.9	2.0	<17	0.45	<3.4	<0.17	<2.7	<0.13	<2.7	<0.14	<11	0.53	<5.6	1.1	<1.3	<0.026	ND	
OA1	03/02/16	1.9	NA	<0.35	NA	<0.69	NA	<0.55	NA	<0.55	NA	<0.77	NA	1.6	NA	<0.13	NA	ND	
OA1	08/04/16	No Analyses - Summa canister stolen during sampling																	

Notes:

- TPHg = Total petroleum hydrocarbons as gasoline.
- MTBE = Methyl tertiary butyl ether.
- TBA = Tertiary butyl alcohol.
- Add'l VOCs = Additional volatile organic compounds.
- SCAQMD = South Coast Air Quality Management District.
- ASTM = American Society of Testing and Materials.
- EPA = Environmental Protection Agency.
- % V = Percent by volume.
- in Hg = Inches of mercury.
- µg/m³ = Micrograms per meter cubed.
- ND = Not detected.
- < = Less than the stated laboratory reporting limit.
- = Not applicable/Not specified.
- a = Value for total xylenes.

TABLE 1B
INDOOR AIR ANALYTICAL RESULTS - HVOCs

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 1 of 2)

Sample ID	Date	Bromodichloromethane		Carbon Tetrachloride		Chlorobenzene		Chloroethane		Chloroform		Chloromethane		c-1,2-Dichloroethene		t-1,2-Dichloroethene	
		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)	
		EPA TO-15	EPA TO-15 SIM														
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																	
Commercial/Industrial		0.33	0.33	0.29	0.29	220	220	44,000	44,000	0.53	0.53	390	390	35	35	260	260
Human Health Risk Assessment Note Number 3 (DTSC, 2014)																	
Industrial		370	370	175	175	---	---	---	---	---	---	---	---	31	31	---	---
Background Outdoor Air																	
Livermore (BAAQMD)																	
Minimum		---	---	0.37	0.37	---	---	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.67	0.67	---	---	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	1.22	1.22	---	---	---	---	---	---	---	---	---	---	---	---
East Oakland (BAAQMD)																	
Minimum		---	---	0.35	0.35	---	---	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.67	0.67	---	---	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	1.38	1.38	---	---	---	---	---	---	---	---	---	---	---	---

Dry Clean 580 Unit

IA1	03/05/15	<3.4	<0.17	<3.1	0.43	<2.3	<0.12	<1.3	<0.066	<2.4	0.27	1.6	1.2	<2.0	<0.099	<2.0	<0.099
IA1 Dup	03/05/15	<3.4	<0.17	<3.1	0.44	<2.3	<0.12	<1.3	<0.066	<2.4	0.28	1.6	1.2	<2.0	<0.099	<2.0	<0.099
IA1	03/02/16	<1.4	NA	<0.64	NA	<0.94	NA	<0.54	NA	<0.49	NA	1.1	NA	<0.80	NA	<0.80	NA
IA1	08/04/16	<0.68	NA	<0.32	NA	<0.47	NA	<0.27	NA	<0.25	NA	0.93	NA	<0.4	NA	<0.40	NA
IA2	03/05/15	<3.4	<0.17	<3.1	0.41	<2.3	<0.12	<1.3	<0.066	<2.4	0.21	1.6	1.2	<2.0	<0.099	<2.0	<0.099
IA2	03/02/16	<1.4	NA	<0.64	NA	<0.94	NA	<0.54	NA	<0.49	NA	1.1	NA	<0.80	NA	<0.80	NA
IA2	08/04/16	<0.68	NA	<0.32	NA	<0.47	NA	<0.27	NA	<0.25	NA	0.87	NA	<0.4	NA	<0.40	NA

Verizon

3935 East Castro Valley Boulevard

IAV1	03/05/15	<3.4	<0.17	<3.1	0.46	<2.3	<0.12	<1.3	<0.066	<2.4	0.27	1.6	1.1	<2.0	<0.099	<2.0	<0.099
IAV1	03/02/16	<0.68	NA	0.57	NA	<0.47	NA	<0.27	NA	0.43	NA	1.5	NA	<0.40	NA	<0.40	NA
IAV2	03/05/15	<3.4	<0.17	<3.1	0.43	<2.3	<0.12	<1.3	<0.066	<2.4	0.31	1.7	1.3	<2.0	<0.099	<2.0	<0.099
IAV2	03/02/16	<1.4	NA	<0.64	NA	<0.94	NA	<0.54	NA	0.56	NA	1.1	NA	<0.80	NA	<0.80	NA

AT&T

3949 East Castro Valley Boulevard

IAA1	03/05/15	<3.4	<0.17	<3.1	0.46	<2.3	<0.12	<1.3	<0.066	<2.4	0.27	1.9	1.3	<2.0	<0.099	<2.0	<0.099
IAA1	03/02/16	<0.68	NA	0.55	NA	<0.47	NA	<0.27	NA	0.32	NA	0.96	NA	<0.40	NA	<0.40	NA

TABLE 1B
INDOOR AIR ANALYTICAL RESULTS - HVOCs

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 2 of 2)

Sample ID	Date	Bromodichloromethane		Carbon Tetrachloride		Chlorobenzene		Chloroethane		Chloroform		Chloromethane		c-1,2-Dichloroethene		t-1,2-Dichloroethene	
		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)	
		EPA TO-15	EPA TO-15 SIM														
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																	
Commercial/Industrial		0.33	0.33	0.29	0.29	220	220	44,000	44,000	0.53	0.53	390	390	35	35	260	260
Human Health Risk Assessment Note Number 3 (DTSC, 2014)																	
Industrial		370	370	175	175	---	---	---	---	---	---	---	---	31	31	---	---
Background Outdoor Air																	
Livermore (BAAQMD)																	
Minimum		---	---	0.37	0.37	---	---	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.67	0.67	---	---	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	1.22	1.22	---	---	---	---	---	---	---	---	---	---	---	---
East Oakland (BAAQMD)																	
Minimum		---	---	0.35	0.35	---	---	---	---	---	---	---	---	---	---	---	---
Average		---	---	0.67	0.67	---	---	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	1.38	1.38	---	---	---	---	---	---	---	---	---	---	---	---

Outdoor Air

OA1	03/05/15	<3.4	<0.17	<3.1	0.46	<2.3	<0.12	<1.3	<0.066	<2.4	<0.12	1.6	<0.12	<2.0	<0.099	<2.0	<0.099
OA1	03/02/16	<0.68	NA	0.57	NA	<0.47	NA	<0.27	NA	<0.25	NA	0.99	<0.40	<0.40	NA	<0.40	NA
OA1	08/04/16	No Analyses - Summa canister stolen during sampling															

Notes:

- TPHg = Total petroleum hydrocarbons as gasoline.
- MTBE = Methyl tertiary butyl ether.
- TBA = Tertiary butyl alcohol.
- Add'l VOCs = Additional volatile organic compounds.
- SCAQMD = South Coast Air Quality Management District.
- ASTM = American Society of Testing and Materials.
- EPA = Environmental Protection Agency.
- % V = Percent by volume.
- in Hg = Inches of mercury.
- µg/m³ = Micrograms per meter cubed.
- ND = Not detected.
- < = Less than the stated laboratory reporting limit.
- = Not applicable/Not specified.
- a = Value for total xylenes.

**TABLE 1C
INDOOR AIR ANALYTICAL RESULTS - ATMOSPHERIC GASES AND HYDROCARBONS**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 1 of 2)

Sample ID	Date	Methane	Carbon Dioxide	Oxygen + Argon	TPHg	MTBE		Benzene		Toluene		Ethylbenzene		o-Xylenes		pm-Xylenes		TBA	Naphthalene		Ethanol
		(%V)	(%V)	(%V)	(ug/m ³)	(ug/m ³)		(ug/m ³)	(ug/m ³)		(ug/m ³)										
		SCAQMD 25.1M	SCAQMD 25.1M	SCAQMD 25.1M	GC/MS C6-C12 as Gasoline	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15	EPA TO-15 SIM	EPA TO-15										
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																					
Commercial/Industrial	---	---	---	---	2,500	47	47	0.42	0.42	1,300	1,300	4.9	4.9	440	440a	440	440a	---	0.36	0.36	---
Background Outdoor Air																					
Livermore (BAAQMD)																					
Minimum	---	---	---	---	---	---	---	0.11	0.11	---	---	---	---	---	---	---	---	---	---	---	---
Average	---	---	---	---	---	---	---	0.71	0.71	---	---	---	---	---	---	---	---	---	---	---	---
Maximum	---	---	---	---	---	---	---	2.63	2.63	---	---	---	---	---	---	---	---	---	---	---	---
East Oakland (BAAQMD)																					
Minimum	---	---	---	---	---	---	---	0	0	---	---	---	---	---	---	---	---	---	---	---	---
Average	---	---	---	---	---	---	---	0.95	0.95	---	---	---	---	---	---	---	---	---	---	---	---
Maximum	---	---	---	---	---	---	---	4.03	4.03	---	---	---	---	---	---	---	---	---	---	---	---

Dry Clean 580 Unit

IA1	03/05/15	0.00019	0.043	22	9,100	<7.2	0.26	1.8	1.3	5.1	3.6	<2.2	0.38	<2.2	0.50	<8.7	1.3	<6.1	<26	0.30	220
IA1 Dup	03/05/15	0.00018	0.043	22	12,000	<7.2	<0.090	<1.6	1.2	3.8	2.9	<2.2	0.32	<2.2	0.35	<8.7	0.92	<6.1	<26	0.25	240
IA1	03/02/16	NA	<0.2	21	640	<1.5	NA	0.38	NA	2.1	NA	<0.88	NA	<0.88	NA	<0.88	NA	<3.1	NA	NA	NA
IA1	08/04/16	NA	<0.20	19	420	<0.73	NA	0.39	NA	1.3	NA	<0.44	NA	<0.44	NA	0.84	NA	<1.5	NA	NA	NA
IA2	03/05/15	0.00018	0.041	22	2,100	<7.2	<0.090	<1.6	1.1	3.3	2.7	<2.2	0.31	<2.2	0.36	<8.7	0.90	<6.1	<26	0.22	230
IA2	03/02/16	NA	<0.2	21	560	<1.5	NA	0.41	NA	2.6	NA	<0.88	NA	<0.88	NA	1.1	NA	<3.1	NA	NA	NA
IA2	08/04/16	NA	<0.20	21	980	<0.73	NA	0.36	NA	1.3	NA	<0.44	NA	<0.44	NA	0.84	NA	<1.5	NA	NA	NA

Verizon

3935 East Castro Valley Boulevard

IAV1	03/05/15	0.00019	0.049	22	<470	<7.2	<0.090	<1.6	1.5	5.0	4.3	<2.2	0.34	<2.2	0.34	<8.7	0.86	<6.1	<26	0.12	1,100
IAV1	03/02/16	NA	<0.2	21	210	<0.73	NA	0.37	NA	2.5	NA	<0.44	NA	0.44	NA	1.1	NA	<1.5	NA	NA	NA
IAV2	03/05/15	0.00019	0.050	22	610	<7.2	<0.090	2.0	1.8	3.7	3.2	2.2	0.30	<2.2	0.35	<8.7	0.82	<6.1	<26	0.12	1,500
IAV2	03/02/16	NA	<0.2	21	<200	<1.5	NA	0.45	NA	2.3	NA	<0.88	NA	<0.88	NA	1.3	NA	<3.1	NA	NA	NA

AT&T

3949 East Castro Valley Boulevard

IAA1	03/05/15	0.00019	0.070	22	680	<7.2	<0.090	2.0	1.9	5.2	4.3	<2.2	0.71	<2.2	0.53	<8.7	1.4	<6.1	<26	0.30	4,600
IAA1	03/02/16	NA	<0.2	21	150	<0.73	NA	0.36	NA	5.4	NA	<0.44	NA	<0.44	NA	1.0	NA	<1.5	NA	NA	NA

**TABLE 1C
INDOOR AIR ANALYTICAL RESULTS - ATMOSPHERIC GASES AND HYDROCARBONS**

Dry Clean 580
3735 East Castro Valley Boulevard
Castro Valley, California
(Page 2 of 2)

Sample ID	Date	Methane	Carbon Dioxide	Oxygen + Argon	TPHg	MTBE		Benzene		Toluene		Ethylbenzene		o-Xylenes		pm-Xylenes		TBA	Naphthalene		Ethanol
		(%V)	(%V)	(%V)	($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)		($\mu\text{g}/\text{m}^3$)										
		SCAQMD 25.1M	SCAQMD 25.1M	SCAQMD 25.1M	GC/MS C6-C12 as Gasoline	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15	EPA TO-15 SIM	EPA TO-15										
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																					
Commercial/Industrial		---	---	---	2,500	47	47	0.42	0.42	1,300	1,300	4.9	4.9	440	440a	440	440a	---	0.36	0.36	---
Background Outdoor Air																					
Livermore (BAAQMD)																					
Minimum		---	---	---	---	---	---	0.11	0.11	---	---	---	---	---	---	---	---	---	---	---	---
Average		---	---	---	---	---	---	0.71	0.71	---	---	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	---	---	---	---	2.63	2.63	---	---	---	---	---	---	---	---	---	---	---	---
East Oakland (BAAQMD)																					
Minimum		---	---	---	---	---	---	0	0	---	---	---	---	---	---	---	---	---	---	---	---
Average		---	---	---	---	---	---	0.95	0.95	---	---	---	---	---	---	---	---	---	---	---	---
Maximum		---	---	---	---	---	---	4.03	4.03	---	---	---	---	---	---	---	---	---	---	---	---

Outdoor Air

OA1	03/05/15	0.00018	0.038	22	<470	<7.2	<0.090	1.9	1.7	<1.9	0.86	<2.2	0.16	<2.2	0.22	<8.7	0.56	<6.1	<26	0.10	19
OA1	03/02/16	NA	<0.2	21	<100	<0.73	NA	0.25	NA	0.80	NA	<0.44	NA	<0.44	NA	<0.44	NA	<1.5	NA	NA	NA
OA1	08/04/16	No Analyses - Summa canister stolen during sampling																			

Notes:

- TPHg = Total petroleum hydrocarbons as gasoline.
- MTBE = Methyl tertiary butyl ether.
- TBA = Tertiary butyl alcohol.
- Add'l VOCs = Additional volatile organic compounds.
- SCAQMD = South Coast Air Quality Management District.
- ASTM = American Society of Testing and Materials.
- EPA = Environmental Protection Agency.
- % V = Percent by volume.
- in Hg = Inches of mercury.
- $\mu\text{g}/\text{m}^3$ = Micrograms per meter cubed.
- ND = Not detected.
- < = Less than the stated laboratory reporting limit.
- = Not applicable/Not specified.
- a = Value for total xylenes.

TABLE 1D
INDOOR AIR ANALYTICAL RESULTS - VOCs
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 1 of 2)

Sample ID	Date	Acetone		Bromomethane		2-Butanone (MEK)		1,3-Butadiene	1,1-Difluoroethane	4-Ethyltoluene		1,3,5-Trimethylbenzene		1,2,4-Trimethylbenzene		Hexane	Styrene		Additional VOCs
		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)	(µg/m ³)	(µg/m ³)		(µg/m ³)		(µg/m ³)	(µg/m ³)		(µg/m ³)		
		EPA TO-15	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15 SIM	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15 SIM	
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																			
Commercial/Industrial	140,000	22	22	22,000	22,000	---	---	---	---	---	---	---	---	---	---	3,900	3,900	---	
Background Outdoor Air																			
Livermore (BAAQMD)																			
Minimum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Average	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Maximum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Oakland (BAAQMD)																			
Minimum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Average	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Maximum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

Dry Clean 580 Unit

IA1	03/05/15	25	<1.9	<0.097	<4.4	<1.5	0.17	<0.68	<2.5	<0.25	<2.5	0.12	<7.4	0.55	0.63	<6.4	0.16	ND
IA1 Dup	03/05/15	25	<1.9	<0.097	<4.4	<1.5	0.14	<0.68	<2.5	<0.25	<2.5	<0.12	<7.4	0.46	<0.35	<6.4	0.16	ND
IA1	03/02/16	12	<0.79	NA	1.5	NA	NA	NA	<1.0	NA	<1.0	NA	<1.0	NA	NA	<0.86	NA	ND
IA1	08/04/16	NA	<0.39	NA	<0.60	NA	NA	NA	<0.50	NA	<0.50	NA	0.6	NA	NA	<0.43	NA	ND
IA2	03/05/15	25	<1.9	<0.097	<4.4	<1.5	0.14	<0.68	<2.5	<0.25	<2.5	<0.12	<7.4	0.42	0.39	<6.4	0.15	ND
IA2	03/02/16	12	<0.79	NA	<1.2	NA	NA	NA	<1.0	NA	<1.0	NA	<1.0	NA	NA	<0.86	NA	ND
IA2	08/04/16	NA	<0.39	NA	1.5	NA	NA	NA	<0.50	NA	<0.50	NA	<0.5	NA	NA	<0.43	NA	ND

Verizon

3935 East Castro Valley Boulevard

IAV1	03/05/15	29	<1.9	<0.097	<4.4	<1.5	0.18	4.5	<2.5	<0.25	<2.5	<0.12	<7.4	0.39	<0.35	<6.4	0.59	ND
IAV1	03/02/16	15	<0.39	NA	1.5	NA	NA	NA	<0.50	NA	<0.50	NA	0.63	NA	NA	2.2	NA	ND
IAV2	03/05/15	29	<1.9	<0.097	<4.4	<1.5	0.24	3.5	<2.5	<0.25	<2.5	<0.12	<7.4	0.43	<0.35	<6.4	0.49	ND
IAV2	03/02/16	17	<0.79	NA	1.8	NA	NA	NA	<1.0	NA	<1.0	NA	<1.0	NA	NA	1.3	NA	ND

AT&T

3949 East Castro Valley Boulevard

IAA1	03/05/15	43	<1.9	<0.097	<4.4	1.7	1.1	<0.68	<2.5	<0.25	<2.5	0.12	<7.4	0.54	0.48	<6.4	0.67	ND
IAA1	03/02/16	16	<0.39	NA	1.6	NA	NA	NA	<0.50	NA	<0.50	NA	<0.50	NA	NA	0.43	NA	ND

TABLE 1D
INDOOR AIR ANALYTICAL RESULTS - VOCs
 Dry Clean 580
 3735 East Castro Valley Boulevard
 Castro Valley, California
 (Page 2 of 2)

Sample ID	Date	Acetone		Bromomethane		2-Butanone (MEK)		1,3-Butadiene	1,1-Difluoroethane	4-Ethyltoluene		1,3,5-Trimethylbenzene		1,2,4-Trimethylbenzene		Hexane	Styrene		Additional VOCs
		(µg/m ³)		(µg/m ³)		(µg/m ³)		(µg/m ³)	(µg/m ³)	(µg/m ³)		(µg/m ³)		(µg/m ³)	(µg/m ³)		(µg/m ³)		
		EPA TO-15	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15 SIM	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA TO-15/ EPA TO-15 SIM
Environmental Screening Levels, Subslab / Soil Gas, Table SG-1 and Indoor Air, Table IA-1 (February 2016)																			
Commercial/Industrial	140,000	22	22	22,000	22,000	---	---	---	---	---	---	---	---	---	---	3,900	3,900	---	
Background Outdoor Air																			
Livermore (BAAQMD)																			
Minimum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Average	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Maximum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
East Oakland (BAAQMD)																			
Minimum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Average	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Maximum	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

Outdoor Air

OA1	03/05/15	14	<1.9	8.0	<4.4	<1.5	0.059	<0.68	<2.5	<0.25	<2.5	<0.12	<7.4	0.32	<0.35	<6.4	<0.11	ND	
OA1	03/02/16	4.4	<0.39	NA	0.79	NA	NA	NA	<0.50	NA	<0.50	NA	<0.50	NA	NA	<0.43	NA	ND	
OA1	8/4/2016	No Analyses - Summa canister stolen during sampling																	

Notes:

- MTBE = Methyl tertiary butyl ether.
- TBA = Tertiary butyl alcohol.
- Add'l VOCs = Additional volatile organic compounds.
- SCAQMD = South Coast Air Quality Management District.
- ASTM = American Society of Testing and Materials.
- EPA = Environmental Protection Agency.
- % V = Percent by volume.
- in Hg = Inches of mercury.
- µg/m³ = Micrograms per meter cubed.
- ND = Not detected.
- < = Less than the stated laboratory reporting limit.
- = Not applicable/Not specified.
- a = Value for total xylenes.



APPENDIX A

FIELD DATA SHEETS



Field Report

FLD-100

Revision 0.0

Jul-08

ATC Branch: Modesto, CA		Date: 8-4-2016	Page 1 of 1
ATC Representative(s): JK		Project: 580 Dryclean	
Role: Technician		Location: 3735 E. Castro Valley Blvd, Castro Valley, CA	
Contact Information:		Project No:	Task No: 06054
Scope of Work:		Weather: overcast	Temperature: 60-
<input type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Assessment <input type="checkbox"/> Remediation <input type="checkbox"/> Closure		Contractor: -	

Time:	Comments:
0900	arrive, check in w/ owner
0902	set up IA2 near storage area, on three brackets @ ~ 5.5'
0910	set up IA2 near door in front " " "
0917	set up outdoor sample upwind in rear of shop on trash enclosure roof in same location as prior sampling
1228	check all cans for vacuum changes; all showing appropriate progress ~8-20 in/Hg
1445	check all cans for security & vacuum progression. ~10 in/Hg
1650	check all cans for pressure; outdoor can missing. conduct grounds search for possible discard or still present collectors.
1720	collect indoor cans @ ~5" Hg vac, report to PM. continue search w/ no luck; report lost can to DryClean owner on chance it returns.
1750	box all supplies; off site & establish local vacuum listed in directories is not present or open.

Equipment Used:		
Contractor Hours (per Person):	Staff / Technician Hours:	Mileage:
Copies To:	Project Manager:	
	Reviewed By:	

Vapor Supplies Check List

Call H&P for support: 800-834-9888

Please return a copy of this sheet with your items to:

H&P Mobile Geochemistry
2470 Impala Drive
Carlsbad, CA 92010
www.handpmg.com

H&P IN HOUSE #: _____

PREPARED FOR

Company: ATC Group Services

Contact: Jim Kundert

Project Name: 580 Marketplace Shp. Ctr.

H&P #: ATC072616-MC

H&P Status #: 160701.00 PM: SN

PREPARED BY

Name: Tori

Date Prepared: 7/26/16

Est. Delivery Date: 7/29/16

Date Returned: _____

Other _____ UPS TRACK#: _____

RETURNED COMPLETE? Yes No INITIAL _____

Vapor Sampling Instructions: FSG 008 Chain of Custody UPS Return Label

****PLEASE NOTE: ALL SUMMAS AND SAMPLING EQUIPMENT RENTED OUT BY H&P MUST BE RETURNED WITHIN 14 DAYS****

SUMMA CANISTERS

QTY SENT	ITEM	DESCRIPTION	QTY RET
<u>3</u>	A - Summa Canister	<input type="checkbox"/> 400 mL _____ <input type="checkbox"/> 1 Liter _____ <input checked="" type="checkbox"/> 6 Liter _____	
<u>0</u>	* Back-Up Summa	<input type="checkbox"/> Used <input type="checkbox"/> Unused (<input type="checkbox"/> 400mL <input type="checkbox"/> 1 Liter <input type="checkbox"/> 6 Liter)	
<u>3</u>	TOTAL SUMMAS	<input type="checkbox"/> Batch Certified _____ <input checked="" type="checkbox"/> Individually Certified _____	

* No charge for back-up if returning unused OR if used to replace faulty equipment

VAPOR SAMPLING EQUIPMENT

QTY SENT	ITEM	DESCRIPTION	QTY RET
	B - Sampling Kit	<input type="checkbox"/> 50 ml/min _____ <input type="checkbox"/> 150 ml/min _____ <input type="checkbox"/> Other _____	
	* Back-Up	<input type="checkbox"/> USED <input type="checkbox"/> UNUSED	
	J - Inline Gauge	Set with male & female luer connections connected with Tygon tubing	
	M - Sampling Adapter	1/8" Male NPT Thread fitting w/ 1/8" Barb	
<u>3</u>	Flow Regulators	<input checked="" type="checkbox"/> 8-HR <input type="checkbox"/> 24-HR	
	Summa Stands	Individual stands for 1 Liter Summa Canisters	

SAMPLING CONSUMABLES

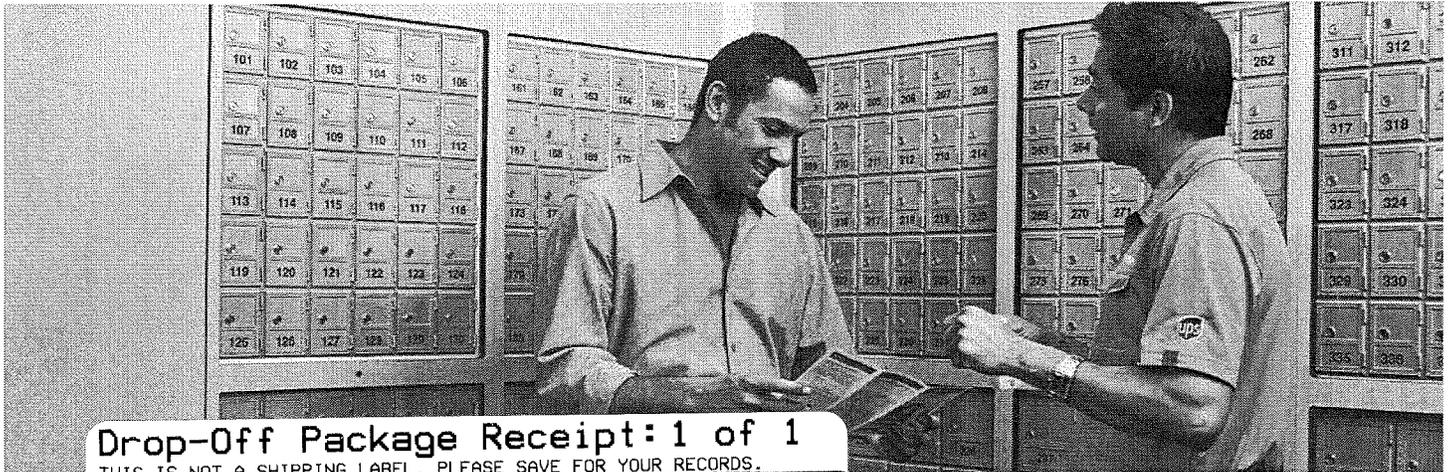
QTY SENT	ITEM	DESCRIPTION
	C - M. Luer w/ 3/8" tubing	Male Luer w/ 3/8" Tygon tubing connector attached (1 per sample)
	D - 3-way Valve	(1 per sample)
	E - Consumables	Includes 3-way valves, syringes, zip ties, 1/4" & 1/8" Tygon tubing
	L - 1/8" Nylaflow tubing	Used as connector tubing for subslab probes
	N - Teflon Tape	For subslab probes
	Tedlar Bags	<input type="checkbox"/> 0.5 Liter <input type="checkbox"/> 1 Liter <input type="checkbox"/> w/ kit (syringe, valve, male luer fitting)

SPECIFICATION

VAPOR PROBE(S)

# of Vapor Probes	# _____ @ _____, # _____ @ _____, # _____ @ _____, # _____ @ _____
Filter Type	<input type="checkbox"/> Airstone <input type="checkbox"/> SS Impant <input type="checkbox"/> Other _____
Tubing Type & Size	<input type="checkbox"/> 1/8" Nylaflow <input type="checkbox"/> 1/4" Teflon <input type="checkbox"/> 1/4" Nylaflow <input type="checkbox"/> Other _____
Termination Type	<input type="checkbox"/> 1-way valve <input type="checkbox"/> SS Swagelok

The UPS Store®



Drop-Off Package Receipt: 1 of 1

THIS IS NOT A SHIPPING LABEL. PLEASE SAVE FOR YOUR RECORDS.

DROP-OFF LOCATION:
THE UPS STORE #1506
2401 E ORANGEBURG AVE
STE 675

(209) 524-0900

CUSTOMER:
Not Provided
ID Type: Not Provided

DROP-OFF DATE/TIME:
Thu 11 Aug 2016 1:13 PM

ESTIMATED PICKUP DATE:
UPS Thu 11 Aug 2016 1pkg

TOTAL PACKAGES: 1pkg

TRACKING NUMBER	CARRIER & SERVICE	WEIGHT
1293TT619051758469	UPS Ground	30 lbs MarkIt

Our mailboxes do more

- Real street address not a P.O. Box™ number
- Package acceptance from any carrier
- Text or email notification*
- Call-in MailCheck®
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APPENDIX B

LABORATORY ANALYTICAL REPORTS

25 August 2016



Mr. Gabe Stivala
ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

H&P Project: ATC081516-11
Client Project: 580 Marketplace / Weingarden

Dear Mr. Gabe Stivala:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 15-Aug-16 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,



Janis La Roux
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IA-1	E608059-01	Vapor	04-Aug-16	15-Aug-16
IA-2	E608059-02	Vapor	04-Aug-16	15-Aug-16

The percent recovery for Bromomethane fell below the method criteria in the continuing calibration verification. Any result for this analyte may be biased low.

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

DETECTIONS SUMMARY

Sample ID: IA-1

Laboratory ID: E608059-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Oxygen	19	0.20		%	ASTM D1945	
Dichlorodifluoromethane (F12)	0.0019	0.0010		ug/l	EPA TO-15	
Chloromethane	0.00093	0.00021		ug/l	EPA TO-15	
Trichlorofluoromethane (F11)	0.0011	0.00056		ug/l	EPA TO-15	
Benzene	0.00039	0.00016		ug/l	EPA TO-15	
Toluene	0.0013	0.00076		ug/l	EPA TO-15	
m,p-Xylene	0.00084	0.00044		ug/l	EPA TO-15	
1,2,4-Trimethylbenzene	0.00060	0.00050		ug/l	EPA TO-15	
TPHv (C5 - C12)	0.42	0.10		ug/l	EPA TO-15	

Sample ID: IA-2

Laboratory ID: E608059-02

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Oxygen	21	0.20		%	ASTM D1945	
Dichlorodifluoromethane (F12)	0.0016	0.0010		ug/l	EPA TO-15	
Chloromethane	0.00087	0.00021		ug/l	EPA TO-15	
Trichlorofluoromethane (F11)	0.00085	0.00056		ug/l	EPA TO-15	
2-Butanone (MEK)	0.0015	0.00060		ug/l	EPA TO-15	
Benzene	0.00036	0.00016		ug/l	EPA TO-15	
Toluene	0.0013	0.00076		ug/l	EPA TO-15	
m,p-Xylene	0.00084	0.00044		ug/l	EPA TO-15	
TPHv (C5 - C12)	0.98	0.10		ug/l	EPA TO-15	

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Soil Gas and Vapor Analysis

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-1 (E608059-01) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16									
Carbon dioxide	ND	0.20	%	1	EH61609	16-Aug-16	16-Aug-16	ASTM D1945	
Oxygen	19	0.20	"	"	"	"	"	"	
IA-2 (E608059-02) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16									
Carbon dioxide	ND	0.20	%	1	EH61609	16-Aug-16	16-Aug-16	ASTM D1945	
Oxygen	21	0.20	"	"	"	"	"	"	

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-1 (E608059-01) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16									
Dichlorodifluoromethane (F12)	0.0019	0.0010	ug/l	1	EH62213	22-Aug-16	22-Aug-16	EPA TO-15	
Chloromethane	0.00093	0.00021	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.00071	"	"	"	"	"	"	
Vinyl chloride	ND	0.00013	"	"	"	"	"	"	
Bromomethane	ND	0.00039	"	"	"	"	"	"	
Chloroethane	ND	0.00027	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.0011	0.00056	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00040	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	0.0015	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.00077	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.00035	"	"	"	"	"	"	
Carbon disulfide	ND	0.00032	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.00040	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.00073	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00041	"	"	"	"	"	"	
2-Butanone (MEK)	ND	0.00060	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00040	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	0.00085	"	"	"	"	"	"	
Chloroform	ND	0.00025	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.00085	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00055	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.00041	"	"	"	"	"	"	
Benzene	0.00039	0.00016	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00032	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.00085	"	"	"	"	"	"	
Trichloroethene	ND	0.00055	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.00047	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00068	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00046	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.00083	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00046	"	"	"	"	"	"	
Toluene	0.0013	0.00076	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00055	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.00083	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00086	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00069	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00078	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00070	"	"	"	"	"	"	

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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IA-1 (E608059-01) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16

Chlorobenzene	ND	0.00047	ug/l	1	EH62213	22-Aug-16	22-Aug-16	EPA TO-15	
Ethylbenzene	ND	0.00044	"	"	"	"	"	"	
m,p-Xylene	0.00084	0.00044	"	"	"	"	"	"	
Styrene	ND	0.00043	"	"	"	"	"	"	
o-Xylene	ND	0.00044	"	"	"	"	"	"	
Bromoform	ND	0.0010	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00070	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.00050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.00060	0.00050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00061	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00061	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00061	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0019	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0027	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	76-134	"	"	"	"	"	"	
Surrogate: Toluene-d8	102 %	78-125	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	77-127	"	"	"	"	"	"	

IA-2 (E608059-02) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16

Dichlorodifluoromethane (F12)	0.0016	0.0010	ug/l	1	EH62213	22-Aug-16	22-Aug-16	EPA TO-15	
Chloromethane	0.00087	0.00021	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.00071	"	"	"	"	"	"	
Vinyl chloride	ND	0.00013	"	"	"	"	"	"	
Bromomethane	ND	0.00039	"	"	"	"	"	"	
Chloroethane	ND	0.00027	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	0.00085	0.00056	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.00040	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	0.0015	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.00077	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.00035	"	"	"	"	"	"	
Carbon disulfide	ND	0.00032	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.00040	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.00073	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00041	"	"	"	"	"	"	
2-Butanone (MEK)	0.0015	0.00060	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.00040	"	"	"	"	"	"	

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-2 (E608059-02) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16									
Diisopropyl ether (DIPE)	ND	0.00085	ug/l	1	EH62213	22-Aug-16	22-Aug-16	EPA TO-15	
Chloroform	ND	0.00025	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	0.00085	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.00055	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.00041	"	"	"	"	"	"	
Benzene	0.00036	0.00016	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.00032	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	0.00085	"	"	"	"	"	"	
Trichloroethene	ND	0.00055	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.00047	"	"	"	"	"	"	
Bromodichloromethane	ND	0.00068	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.00046	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.00083	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.00046	"	"	"	"	"	"	
Toluene	0.0013	0.00076	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00055	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.00083	"	"	"	"	"	"	
Dibromochloromethane	ND	0.00086	"	"	"	"	"	"	
Tetrachloroethene	ND	0.00069	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.00078	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.00070	"	"	"	"	"	"	
Chlorobenzene	ND	0.00047	"	"	"	"	"	"	
Ethylbenzene	ND	0.00044	"	"	"	"	"	"	
m,p-Xylene	0.00084	0.00044	"	"	"	"	"	"	
Styrene	ND	0.00043	"	"	"	"	"	"	
o-Xylene	ND	0.00044	"	"	"	"	"	"	
Bromoform	ND	0.0010	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.00070	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.00050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.00050	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.00050	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.00061	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.00061	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.00061	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.0019	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.0027	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

99.7 %

76-134

"

"

"

"

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-2 (E608059-02) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16									
Surrogate: Toluene-d8		102 %	78-125		EH62213	22-Aug-16	22-Aug-16	EPA TO-15	
Surrogate: 4-Bromofluorobenzene		93.0 %	77-127		"	"	"	"	

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Petroleum Hydrocarbon Analysis

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-1 (E608059-01) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16									
TPHv (C5 - C12)	0.42	0.10	ug/l	1	EH62213	22-Aug-16	22-Aug-16	EPA TO-15	
IA-2 (E608059-02) Vapor Sampled: 04-Aug-16 Received: 15-Aug-16									
TPHv (C5 - C12)	0.98	0.10	ug/l	1	EH62213	22-Aug-16	22-Aug-16	EPA TO-15	

ATC Group Services - Roseville
915 Highland Pointe Drive, Suite 250
Roseville, CA 95678

Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Soil Gas and Vapor Analysis - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH61609 - GC

Blank (EH61609-BLK1)

Prepared & Analyzed: 16-Aug-16

Carbon dioxide	ND	0.20	%							
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Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH62213 - TO-15

Prepared & Analyzed: 22-Aug-16

Blank (EH62213-BLK1)

Dichlorodifluoromethane (F12)	ND	0.0010	ug/l							
Chloromethane	ND	0.00021	"							
Dichlorotetrafluoroethane (F114)	ND	0.00071	"							
Vinyl chloride	ND	0.00013	"							
Bromomethane	ND	0.00039	"							
Chloroethane	ND	0.00027	"							
Trichlorofluoromethane (F11)	ND	0.00056	"							
1,1-Dichloroethene	ND	0.00040	"							
Tertiary-butyl alcohol (TBA)	ND	0.0015	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.00077	"							
Methylene chloride (Dichloromethane)	ND	0.00035	"							
Carbon disulfide	ND	0.00032	"							
trans-1,2-Dichloroethene	ND	0.00040	"							
Methyl tertiary-butyl ether (MTBE)	ND	0.00073	"							
1,1-Dichloroethane	ND	0.00041	"							
2-Butanone (MEK)	ND	0.00060	"							
cis-1,2-Dichloroethene	ND	0.00040	"							
Diisopropyl ether (DIPE)	ND	0.00085	"							
Chloroform	ND	0.00025	"							
Ethyl tert-butyl ether (ETBE)	ND	0.00085	"							
1,1,1-Trichloroethane	ND	0.00055	"							
1,2-Dichloroethane (EDC)	ND	0.00041	"							
Benzene	ND	0.00016	"							
Carbon tetrachloride	ND	0.00032	"							
Tertiary-amyl methyl ether (TAME)	ND	0.00085	"							
Trichloroethene	ND	0.00055	"							
1,2-Dichloropropane	ND	0.00047	"							
Bromodichloromethane	ND	0.00068	"							
cis-1,3-Dichloropropene	ND	0.00046	"							
4-Methyl-2-pentanone (MIBK)	ND	0.00083	"							
trans-1,3-Dichloropropene	ND	0.00046	"							
Toluene	ND	0.00076	"							
1,1,2-Trichloroethane	ND	0.00055	"							
2-Hexanone (MBK)	ND	0.00083	"							

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Reported:
25-Aug-16 10:17

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH62213 - TO-15

Blank (EH62213-BLK1)

Prepared & Analyzed: 22-Aug-16

Dibromochloromethane	ND	0.00086	ug/l							
Tetrachloroethene	ND	0.00069	"							
1,2-Dibromoethane (EDB)	ND	0.00078	"							
1,1,1,2-Tetrachloroethane	ND	0.00070	"							
Chlorobenzene	ND	0.00047	"							
Ethylbenzene	ND	0.00044	"							
m,p-Xylene	ND	0.00044	"							
Styrene	ND	0.00043	"							
o-Xylene	ND	0.00044	"							
Bromoform	ND	0.0010	"							
1,1,1,2,2-Tetrachloroethane	ND	0.00070	"							
4-Ethyltoluene	ND	0.00050	"							
1,3,5-Trimethylbenzene	ND	0.00050	"							
1,2,4-Trimethylbenzene	ND	0.00050	"							
1,3-Dichlorobenzene	ND	0.00061	"							
1,4-Dichlorobenzene	ND	0.00061	"							
1,2-Dichlorobenzene	ND	0.00061	"							
1,2,4-Trichlorobenzene	ND	0.0019	"							
Hexachlorobutadiene	ND	0.0027	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0481</i>		<i>"</i>	<i>0.0429</i>		<i>112</i>	<i>76-134</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0414</i>		<i>99.5</i>	<i>78-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0653</i>		<i>"</i>	<i>0.0729</i>		<i>89.5</i>	<i>77-127</i>			

LCS (EH62213-BS1)

Prepared & Analyzed: 22-Aug-16

Dichlorodifluoromethane (F12)	0.024	0.0010	ug/l	0.0202		121	59-128			
Vinyl chloride	0.011	0.00013	"	0.0104		105	64-127			
Chloroethane	0.0086	0.00027	"	0.0107		79.9	63-127			
Trichlorofluoromethane (F11)	0.025	0.00056	"	0.0226		112	62-126			
1,1-Dichloroethene	0.018	0.00040	"	0.0162		114	61-133			
1,1,2-Trichlorotrifluoroethane (F113)	0.035	0.00077	"	0.0310		112	66-126			
Methylene chloride (Dichloromethane)	0.018	0.00035	"	0.0142		126	62-115			QL-1H
trans-1,2-Dichloroethene	0.017	0.00040	"	0.0162		104	67-124			
1,1-Dichloroethane	0.018	0.00041	"	0.0165		109	68-126			

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Reported:
25-Aug-16 10:17

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH62213 - TO-15

LCS (EH62213-BS1)

Prepared & Analyzed: 22-Aug-16

cis-1,2-Dichloroethene	0.018	0.00040	ug/l	0.0160		110	70-121			
Chloroform	0.023	0.00025	"	0.0198		117	68-123			
1,1,1-Trichloroethane	0.027	0.00055	"	0.0222		120	68-125			
1,2-Dichloroethane (EDC)	0.020	0.00041	"	0.0165		123	65-128			
Benzene	0.014	0.00016	"	0.0130		109	69-119			
Carbon tetrachloride	0.033	0.00032	"	0.0256		127	68-132			
Trichloroethene	0.023	0.00055	"	0.0219		106	71-123			
Toluene	0.016	0.00076	"	0.0154		101	66-119			
1,1,2-Trichloroethane	0.023	0.00055	"	0.0222		104	73-119			
Tetrachloroethene	0.029	0.00069	"	0.0276		105	66-124			
1,1,1,2-Tetrachloroethane	0.033	0.00070	"	0.0280		117	67-129			
Ethylbenzene	0.017	0.00044	"	0.0177		97.0	70-124			
m,p-Xylene	0.018	0.00044	"	0.0177		101	61-134			
o-Xylene	0.017	0.00044	"	0.0177		97.5	67-125			
1,1,2,2-Tetrachloroethane	0.027	0.00070	"	0.0280		96.8	65-127			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0507</i>		<i>"</i>	<i>0.0429</i>		<i>118</i>	<i>76-134</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0414</i>		<i>96.2</i>	<i>78-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0643</i>		<i>"</i>	<i>0.0729</i>		<i>88.2</i>	<i>77-127</i>			

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Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Petroleum Hydrocarbon Analysis - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH62213 - TO-15

Blank (EH62213-BLK1)

Prepared & Analyzed: 22-Aug-16

TPHv (C5 - C12)	ND	0.10	ug/l							
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ATC Group Services - Roseville
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Project: ATC081516-11
Project Number: 580 Marketplace / Weingarden
Project Manager: Mr. Gabe Stivala

Reported:
25-Aug-16 10:17

Notes and Definitions

QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered biased high.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L15-279-R1

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Lab Client and Project Information		
Lab Client/Consultant: <u>ATC Group Services LLC</u>	Project Name / #: <u>380 Marketplace / Weingarden</u>	
Lab Client Project Manager: <u>Gabe Strimla</u>	Project Location: <u>3735 E. Castro Valley Blvd, Castro Valley</u>	
Lab Client Address: <u>915 Highland Pointe Dr. Suite 250</u>	Report E-Mail(s): <u>gabe.strimla@atcassociates.com</u> <u>Jim.Kundrat@atcassociates.com</u>	
Lab Client City, State, Zip: <u>Roseville, CA 95678</u>		
Phone Number: <u>916-724-5201</u>		
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input checked="" type="checkbox"/> CA Geotracker Global ID: <u>T1000004345</u>	<input checked="" type="checkbox"/> 5-7 day Std <input type="checkbox"/> 24-Hr Rush <input type="checkbox"/> 3-day Rush <input type="checkbox"/> Mobile Lab <input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	Sampler(s): <u>Jim Kundrat</u> Signature: <u>[Signature]</u> Date: <u>8-4-16</u>

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>8/15/16</u>	Control #: <u>160701.02</u>
H&P Project # <u>ATC081516-11</u>	
Lab Work Order # <u>E608059</u>	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: <u>11167</u>	Temp: <u>RT</u>
Outside Lab: _____	
Receipt Notes/Tracking #: <u>1295TT619051758469</u> <u>wrote in container ID for</u>	
Lab PM Initials: <u>SN</u>	

Additional Instructions to Laboratory:

- Check if Project Analyte List is Attached
* Preferred VOC units (please choose one):
 µg/L µg/m³ ppbv ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		VOCs Short List / Project List		Oxygenates	Naphthalene	TPHv as Gas	TPHv as Diesel (sorber tube)	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945
								<input type="checkbox"/> 8260SV <input checked="" type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV <input checked="" type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV <input type="checkbox"/> TO-15								
<u>IA-1</u>		<u>8-4-16</u>	<u>0910</u>	<u>IA</u>	<u>6L</u>	<u>269</u>	<u>-5.40</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>IA-2</u>		<u>8-4-16</u>	<u>0902</u>	<u>IA</u>	<u>6L</u>	<u>448</u>	<u>-3.30</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>ATC</u>	Date: <u>8-11-16</u>	Time: <u>1300</u>	Received by: <u>[Signature]</u>	Company: <u>H&P</u>	Date: <u>8/15/16</u>	Time: <u>1037</u>
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back