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RECEIVED

By Alameda County Environmental Health 2:18 pm, Apr 26, 2017

Mr. Gabe Stivala, P.G ATC Group Services LLC 701 University Drive, Suite 200 Sacramento, CA 95825

SUBJECT Indoor Air Monitoring Report Dry Clean 580 and Adjacent Retail Units 3735 East Castro Valley Boulevard, Castro Valley, CA Alameda County LOP No. RO 3097

Dear Mr. Stivala:

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document submitted on my behalf by ATC Group Services LLC to ACDEH's FTP server and the SWRCB's GeoTracker website.

Sincerely **Charles Gurney**

Weingarten Realty Investors 2600 Citadel Plaza Drive, Suite 300

Houston, Texas 77008

Date:



April 11, 2017

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

SUBJECT Indoor Air Monitoring 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 to monitor previously reported trichloroethene (TCE) indoor air concentrations exceeding applicable screening levels.

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.

BACKGROUND

The sampling was performed to monitor 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, Revision 3 (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 (μ g/m³) and 7.2 μ g/m³, respectively; the ESL is 3.0 μ g/m³ and the EPA Response Action Level for an 8-hour work day is 8.0 μ g/m³; indoor air samples from adjacent tenant units did not exceed guidance concentrations. Following the March 2016 sampling, indoor air at the DryClean 580 tenant unit was resampled on



August 4, 2016. No detection of TCE were reported above the reporting limit for TCE of 0.55 µg/m³ for the August 2016 sampling event.

On August 24 and 25, 2016, ATC implemented Interim Remedial Action consisting of the excavation and disposal of approximately 60 tons of soil from the identified chlorinated hydrocarbon release area adjacent to and outside the southern side of the DryClean 580 tenant unit. The purpose of the excavation was to remove the suspected source of chlorinated hydrocarbons detected in sub-slab vapor and indoor air at the DryClean 580 tenant unit. The excavation activities and confirmation soil sampling results are documented in ATC's *Interim Remedial Action Report*, dated September 26, 2016.

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 tenant of the DryClean 580 unit on March 8, 2017 and conducted a visual inventory of the products stored in the unit that could potentially affect the indoor air results. The tenant was provided instructions regarding removal of products or storage and non-use of products and chemicals, until completion of the sampling. 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 DF-2000) are used during daily operations and could not be removed, however this particular product is petroleum based and does not contain chlorinated hydrocarbons.

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 March 15, 2017 from approximately 0800 hours to 1525 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. Contemporaneously, one outdoor sample was collected (AA).
- 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.
- AA indicates the sample matrix is outside air; note that for previous events OA was used.

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

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 March 15, 2017 indicated that:

- TCE was not reported to be present any of the samples at or above the method detection limit (MDL) of 0.55 μg/m³, which is below the ESL (3.0 μg/m³) and the EPA Response Action Level for an 8-hour work day (8.0 μg/m³).
- PCE not reported to be present in any of the samples above the MDL of 0.69 µg/m³, which is below the ESL (2.1 µg/m³).
- Carbon tetrachloride was reported in samples IA1, IA2, and AA at concentrations of 0.45 μg/m³, 0.51 μg/m³, and 0.45 μg/m³, respectively. These concentrations exceed the ESL (0.29 μg/m³).
- Total Petroleum Hydrocarbons in the gasoline range (TPHg) was reported to be present in samples IA1 and IA at a concentrations of 260 µg/m³ in sample IA1 and at a concentration of 320 µg/m³ in the sample collected from IA2, neither of which exceed the ESL (2,500 µg/m³); for sample AA, TPHg was not reported to be present at or above the MDL of 100 µg/m³.
- Benzene was reported in samples IA1, IA2, and AA at concentrations of 0.65 μg/m³, 0.61 μg/m³, and 0.42 μg/m³, respectively. All three samples meet or exceed the ESL (0.42 μg/m³).

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 μg/m³ (Livermore) and 0.70 μg/m³ (East Oakland), while the reported indoor air concentrations were similar or lower, ranging from (<0.35 μg/m³ to 0.75 μg/m³).
- The average background PCE concentrations reported regionally were 0.11 μg/m³ and 0.17 μg/m³), while the reported indoor air concentrations were generally higher, ranging from <0.69 μg/m³ to 3.3 μg/m³.
- The average regional TCE concentrations were 0.01 μg/m³ and 0.05 μg/m³, while indoor air concentrations ranged from <0.55 μg/m³ to 19 μg/m³.
- The average regional carbon tetrachloride concentration reported regionally was 0.67 µg/m³ (Liverpool and East Oakland) are higher than the reported indoor air concentrations (<0.32 µg/m³ to 0.57 µg/m³).

CONCLUSIONS AND RECOMMENDATIONS

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

- TCE was not detected in indoor air above the reporting limit of <0.69 μg/m³, the ESL (3.0 μg/m³), or the EPA Response Action Level for an 8-hour work day (8.0 μg/m³).
- Reported detections of carbon tetrachloride and benzene are slightly above ESLs for sample inside of the tenant unit are comparable to ambient concentrations outside of the DryClean 580 tenant unit, and therefore are background concentrations and not related to chlorinated hydrocarbon release at the site.
- 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 continue to indicate that current indoor air quality poses no risk to human health in this commercial setting. Therefore, 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 <u>gabe.stivala@atcassociates.com</u> 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: <u>gabe.stivala@atcassociates.com</u>



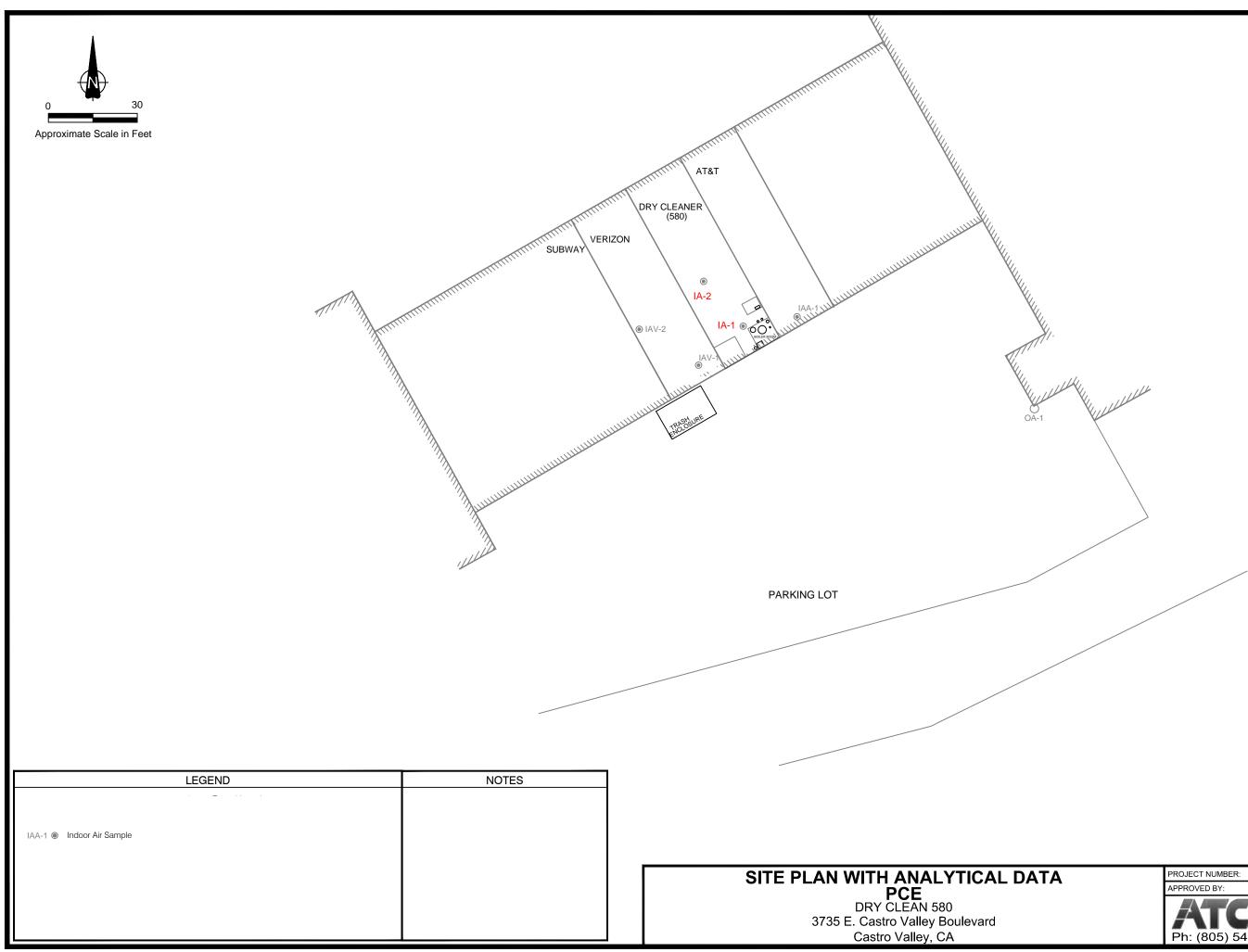
Enclosures:

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



PROJECT NUMBER:	2386			DATE:	02/01	1/2016	FIGURE
APPROVED BY:	AH			DRAWN	N BY:	CC	PCE
ATC				•			Suite 200 A 93401
Ph: (805) 54	3-70	007	***	Fax	k: (8	805) 5	543-7027

TABLES

TABLE 1AINDOOR AIR ANALYTICAL RESULTS - HVOCsDry Clean 5803735 East Castro Valley BoulevardCastro Valley, California(Page 1 of 8)

			rodifluoro- ethane	Methyle	ene Chloride		rachloro- thene		chloro- hene	1.1.1-Trick	nloroethane		hloro-1,2,2- roethane		lorofluoro- ethane		Vinyl hloride	Add'l HVOCs
Sample ID	Date		ig/m ³)		ug/m^3)		ug/m ³)		g/m ³)		g/m^3)		g/m^3)		µg/m ³)		ug/m ³)	(µg/m ³)
		EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA TO-15/
					TO-15 SIM				TO-15 SIM		TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15 SIM	EPA TO-15 SIM
			els, Subslal		Gas, Table S	-			1 (February									
Commercia				12	12	2.1	2.1	3.0	3.0	4,400	4,400					0.16	0.16	
	alth Risk A	r	1		(DTSC, 2014		0.00		1	4.000	4 0 0 0					0.457	0.457	
Industrial				12.3	12	2.08	2.08			4,380	4,380					0.157	0.157	
			nse Action			_	_	_	_	_	_	_	_	_	_	_	_	
8-hour Wor		Accelera		1				8	8		1		1		1	1	1	
10-hour Wo	,							0 7	8 7									
	,		lesponse Act					1	/									
8-hour Wor								24	24									
10-hour Wo	,							24	24									
Backgroun					1			21	<u> </u>							1		
Livermore (
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 Oaklar	nd (BAAQN	1D)			•											•		
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 Clea	an 580 l	Init																
-			4.0	47	0.55	~ 4	0.50	~ ~		0.7	0.4.4		0.54	5.0			0.000	
IA1 IA1 Dup	03/05/15 03/05/15	2.9 2.9	1.9 2.0	<17	0.55 0.43	<3.4 <3.4	0.58 0.65	3.0 3.5	3.1 3.5	<2.7 <2.7	0.14 0.16	<11 <11	0.51 0.52	<5.6 <5.6	1.1	<1.3 <1.3	<0.026 <0.026	ND ND
IA1 Dup	03/02/16	2.9	2.0 NA	<17 <0.71	0.43 NA	<3.4 <1.4	0.85 NA	3.5 19	3.5 NA	<2.7 <1.1	NA	<11 <1.5	0.52 NA	<5.6 1.6	1.1 NA	<1.3 <0.26	<0.026 NA	ND
IA1	03/02/10	1.9	NA	< 0.35	NA	< 0.69	NA	< 0.55	NA	< 0.55	NA	<0.77	NA	1.1	NA	<0.20	NA	ND
IA1	03/15/17	1.9	NA	<0.35 0.46	NA	< 0.69	NA	<0.55 <0.55	NA	< 0.55	NA	<0.77	NA	1.1	NA	< 0.13	NA	ND
	00/10/11	1.0		0.40	INA.	<0.03		<0.55	INA.	<0.55	114	<0.11	NA	1.5	NA	<0.15	114	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
IA2	03/15/17	1.9	NA	0.42	NA	< 0.69	NA	< 0.55	NA	< 0.55	NA	<0.77	NA	1.4	NA	<0.13	NA	ND
Verizon																		
3935 East (-						a =		e =				- -				
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 IAV2	03/02/16	-	NA	0.75	0.04 NA	<3.4 <1.4	NA	<1.1	NA	<1.1	<0.14 NA	<1.5	NA	1.3	NA	<0.26	<0.020 NA	ND
	50/02/10	~2.0		0.75		<1. 1		×1.1		×1.1		×1.0		1.0		NU.20		

TABLE 1AINDOOR AIR ANALYTICAL RESULTS - HVOCsDry Clean 5803735 East Castro Valley BoulevardCastro Valley BoulevardCastro Valley, California(Page 2 of 8)

		Dichlo	rodifluoro-			Tetr	achloro-	Trio	chloro-			1.1.2-Tric	hloro-1,2,2-	Trich	lorofluoro-		Vinyl	Add'l
			ethane	Methyle	ne Chloride		thene		hene	1,1,1-Tricl	hloroethane		roethane	-	ethane		hloride	HVOCs
Sample ID	Date	(1	ug/m ³)	· · · ·	ug/m ³)	(1	ug/m ³)	(u	g/m ³)		g/m ³)	(uo	g/m ³)	(µg/m³)	(1	ug/m ³)	(µg/m ³)
Campio 12	2410	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA TO-15/
			TO-15 SIM						TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15 SIM				TO-15 SIM	EPA TO-15 SIM
Environme	ntal Scree		vels, Subsla								10-10 010	10-13	10-10 010	10-15	10-13 010	10-15	10-13 010	ELA TO 15 OIM
Commercia				12	12	2.1	2.1	3.0	3.0	4,400	4,400					0.16	0.16	
			ent Note Nu				2.1	0.0	5.0	4,400	4,400					0.10	0.10	
Industrial				12.3	12	2.08	2.08			4,380	4,380					0.157	0.157	
	E Indoor A	ir Respo	onse Action			2.00	2.00			1,000	1,000					0.101	0.101	
			ated Respons															
8-hour Worl								8	8									
10-hour Wo	,							7	7									
		Urgent F	Response Ac	tion Leve		I			-		•	I				I		
8-hour Worl								24	24									
10-hour Wo	,							21	21									
Backgroun		r Air																
Livermore (I																		
Minimum	,			0	0	0	0	0	0		l							
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 Oaklar	nd (BAAQI	MD)			.	·			•			I	•		•	·	.	
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									
AT&T																		
3949 East 0	Castro Va	llev Boul	evard															
IAA1	03/05/15	•	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
Outdoo	r 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 OA1	03/03/15		Z.0 NA	<0.35	0.45 NA	<3.4 <0.69	<0.17 NA	<2.7 <0.55	<0.13 NA	<2.7 <0.55	<0.14 NA	<0.77	0.55 NA	<5.6 1.6	NA	<0.13	<0.026 NA	ND
OA1 OA1	03/02/10	1.9	NA NA	<0.55	NA NA	<0.09	NA NA		Analyses - Su			-		1.0	INA	<0.15	NA NA	ND
AA	03/15/17	1.8	NA	0.46	NA	<0.69	NA	<0.55	NA	<0.55	NA	0.77	NA	1.2	NA	<0.13	NA	ND
Notes:	03/13/17	1.0	11/4	0.40	11/4	~0.09	IN/A	<0.00	IN/A	<0.00	11/4	<0.17	11/4	1.2	11/4	<u><u></u> <u></u> </u>	IN/A	שאו
TPHg	=	Total pa	troleum hydr	ocarhon	anilosen se s				% V	=	Percent by	volume						
MTBE	=	•	ertiary butyl e		s as gasonine	••			in Ha	=	Inches of m							
TBA	=		butyl alcohol						µg/m³	=	Micrograms	,	cubed					
Add'I VOCs		,	al volatile or		nnounde				ND	=	Not detecte	•						
SCAQMD	=		oast Air Qua			rict			<	=			boratory rep	ortina li	mit			
ASTM	=		in Society of	,	0					=	Not applical			orang in				
EPA	=		mental Prote	-					a	=	Value for to	•						
	-			Ston Age	y.				a	-		an Ayrenes	-					

TABLE 1BINDOOR AIR ANALYTICAL RESULTS - HVOCsDry Clean 5803735 East Castro Valley BoulevardCastro Valley, California(Page 3 of 8)

		Bromodich	loromethane	Carbon T	Tetrachloride	Chloro	obenzene	Chloro	ethane	Chlo	roform	Chloro	methane	_	1,2- roethene		1,2- oethene
	_	(µç	g/m ³)	(µ	g/m ³)	(µ	g/m ³)	(µg/	′m ³)	(µç	y/m ³)	(μς	g/m ³)	(µ(g/m ³)	(µç	g/m ³)
Sample ID	Date	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
Environmer	ntal Screening	g Levels, Sι	ıbslab / Soil	Gas, Tabl	e SG-1 and Ir	ndoor Air	, Table IA-1	(February 2	:016)								
Commercial		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 Hea	lth Risk Asse						-										
Industrial		370	370	175	175									31	31		
	d Outdoor Air																
Livermore (E	BAAQMD)		1														
Minimum				0.37	0.37												
Average				0.67	0.67												
Maximum				1.22	1.22												
	d (BAAQMD)	I	1		-				I				-				
Minimum				0.35	0.35												
Average				0.67	0.67												
Maximum				1.38	1.38												
Dry Clea	n 580 Uni 03/05/15	t <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	0.43	<2.3	<0.12	<1.3	<0.066	<2.4	0.27	1.6	1.2	<2.0 <2.0	<0.099	<2.0 <2.0	<0.099
IA1 Dup	03/02/16	<1.4	NA	<0.64	NA	<0.94	NA	<0.54	<0.000 NA	<0.49	NA	1.0	NA	<0.80	<0.033 NA	<0.80	<0.033 NA
IA1	03/02/10	<0.68	NA	<0.32	NA	<0.34 <0.47	NA	<0.27	NA	<0.45	NA	0.93	NA	<0.00 <0.40	NA	<0.00 <0.40	NA
IA1	03/15/17	<0.68	NA	0.45	NA	<0.47	NA	<0.27	NA	<0.25	NA	1.3	NA	<0.40 <0.40	NA	<0.40 <0.40	NA
	03/13/17	<0.00	NA	0.45	IN/A	<0.47	INA	<0.27	IN/A	<0.25	INA.	1.5	IN/A	<0.40	INA	<0.40	INA
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
IA2	03/15/17	<0.68	NA	0.51	NA	<0.47	NA	<0.27	NA	<0.25	NA	1.0	NA	<0.40	NA	<0.40	NA
Verizon	astro Valley I	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 IAV1	03/03/15	<3.4 <0.68	<0.17 NA	<3.1 0.57	0.46 NA	<2.3 <0.47	<0.12 NA	<0.27	<0.000 NA	<2.4 0.43	NA	1.5	NA	<2.0 <0.40	<0.099 NA	<2.0 <0.40	<0.099 NA
	03/02/10	<0.00	IN/A	0.57	IN/A	<0.47	11/7	50.21	11/21	0.45	11/4	1.5	11/4	<0.40	IN/A	<0.40	IN/A
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	<0.000 NA	0.56	NA	1.1	NA	<0.80	<0.033 NA	<0.80	<0.033 NA
	50,02,10	N1.7	1.1/1	-0.04	1.0.1	NO:0 - T		NU.U-1	1.1/1	0.00	1 1/ 1		1 1/ 1	-0.00	1 1/ 1	~0.00	1 1/ 1
AT&T	actua Valler I	Deulover-1															
	astro Valley E		-0.17	-2.4	0.46	-0.0	-0.10	-1.0	-0.066	-0.4	0.07	1.0	1.0	-2.0	-0.000	-2.0	-0.000
IAA1 IAA1	03/05/15 03/02/16	<3.4 <0.68	<0.17 NA	<3.1 0.55	0.46 NA	<2.3 <0.47	<0.12 NA	<1.3 <0.27	<0.066 NA	<2.4 0.32	0.27 NA	1.9 0.96	1.3 NA	<2.0 <0.40	<0.099 NA	<2.0 <0.40	<0.099 NA
	03/02/10	<0.00	NA	0.00	INA	<0.47	INA	<0.27	INA	0.32	INA	0.90	NA	<0.40	INA	<0.40	INA

TABLE 1BINDOOR AIR ANALYTICAL RESULTS - HVOCsDry Clean 5803735 East Castro Valley BoulevardCastro Valley, California(Page 4 of 8)

		Bromodich	loromethane	Carbon T	etrachloride	Chlore	benzene	Chloro	ethane	Chlo	roform	Chloro	methane		1,2- roethene		1,2- oethene
			J/m ³)		g/m ³)		g/m ³)	(µg/			g/m ³)		g/m ³)		g/m ³)		J/m ³)
Sample ID	Date	EPA TO-15	EPA TO-15 SIM	EPA TO-15	EPA TO-15 SIM	EPA	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
			ıbslab / Soil	Gas, Tabl	e SG-1 and Ir	ndoor Air	, Table IA-1	(February 2	:016)					1			
Commercial/		0.33	0.33	0.29	0.29	220	220	44,000	44,000	0.53	0.53	390	390	35	35	260	260
	Ith Risk Ass								7	1	-		1				
Industrial		370	370	175	175									31	31		
Background		r															
Livermore (B	SAAQMD)	-		0.07	0.07				r		1	1	1	, , ,		1	
Minimum				0.37	0.37												
Average				0.67	0.67												
Maximum East Oakland				1.22	1.22												
Minimum				0.35	0.35									I I			
Average				0.67	0.55												
Maximum				1.38	1.38												
Outdoor OA1 OA1	03/05/15 03/02/16	<3.4 <0.68	<0.17 NA	<3.1 0.57	0.46 NA	<2.3 <0.47	<0.12 NA	<1.3 <0.27	<0.066 NA	<2.4 <0.25	<0.12 NA	1.6 0.99	<0.12 NA	<2.0 <0.40	<0.099 NA	<2.0 <0.40	<0.099 NA
OA1	08/04/16							lyses - Sumi									
AA Notes:	03/15/17	<0.68	NA	0.45	NA	<0.47	NA	<0.27	NA	<0.25	NA	<0.21	NA	<0.40	NA	<0.40	NA
TPHg MTBE TBA Add'I VOCs SCAQMD ASTM EPA % V in Hg µg/m ³ ND <		Methyl tertia Tertiary but Additional v South Coas American S Environmer Percent by Inches of m Micrograms Not detecte Less than t	volatile organi st Air Quality I society of Tes ntal Protection volume. sercury. s per meter cu	r. c compour Manageme ting and M n Agency. ubed. pratory rep	nds. ent District. laterials.												
а	=	Value for to	•	nou.													

TABLE 1C INDOOR AIR ANALYTICAL RESULTS - ATMOSPHERIC GASES AND HYDROCARBONS Dry Clean 580 3735 East Castro Valley Boulevard Castro Valley, California (Page 5 of 8)

		Methane	Carbon Dioxide	Oxygen + Argon	TPHg		ITBE	-	enzene	-	uene	,	benzene		lenes		(ylenes	TBA		hthalene	Ethanol
Sample ID	Date	(%V) SCAQMD 25.1M	(%V) SCAQMD 25.1M	(%V) SCAQMD 25.1M	(µg/m ³) GC/MS C6- C12 as	EPA	g/m ³) EPA TO-15 SIM	EPA	ug/m³) EPA TO-15 SIM	<u>μι</u> ΕΡΑ ΤΟ-15	(m ³) EPA TO-15 SIM	EPA	ig/m ³) EPA TO-15 SIM	<u>μ</u> ΕΡΑ ΤΟ-15	g/m ³) EPA TO-15 SIM	<u>μ</u> ΕΡΑ ΤΟ-15	g/m ³) EPA TO-15 SIM	(µg/m ³) EPA TO-15	EPA	ug/m ³) EPA TO-15 SIM	(µg/m ³) EPA TO-15
Environment	al Screeni		Subslab / S		Gasoline able SG-1 and I																
Commercial/I					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 A	ir			,			-		,	1			-		-					
Livermore (BA	AAQMD)																				
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 Clear			0.040	00	0.400	7.0	0.00	4.0	4.2	5.4	0.0		0.00	0.0	0.50	0.7	4.0	6.4		0.00	000
IA1	03/05/15 03/05/15	0.00019 0.00018	0.043 0.043	22 22	9,100 12,000	<7.2 <7.2	0.26 <0.090	1.8 <1.6	1.3 1.2	5.1 3.8	3.6 2.9	<2.2 <2.2	0.38 0.32	<2.2 <2.2	0.50 0.35	<8.7 <8.7	1.3 0.92	<6.1 <6.1	<26 <26	0.30 0.25	220 240
IA1 Dup IA1	03/05/15	0.00018 NA	0.043 <0.2	22	1 2,000 640		<0.090 NA	<1.6 0.38	1.Z NA	3.8 2.1	2.9 NA	<2.2 <0.88	0.32 NA	<2.2 <0.88	0.35 NA	<8.7 <0.88	0.92 NA	<0.1 <3.1	<26 NA	0.25 NA	240 NA
IA1	03/02/16	NA	<0.2 <0.20	21 19	420	<1.5 <0.73	NA	0.38	NA	2.1 1.3	NA	<0.88	NA	<0.88 <0.44	NA	<0.88 0.84	NA	<3.1 <1.5	NA	NA	NA
IA1	03/15/17	NA	<0.20	21	260	<0.73	NA	0.39	NA	1.3	NA	0.44	NA	<0.44 0.57	NA	1.6	NA	<1.5	NA	NA	NA
	03/13/17	NA	<0.20	21	200	<0.75	NA	0.05	NA	15	NA NA	0.44	NA	0.57	NA	1.0	INA.	<1.5	NA.	NA	INA
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
IA2	03/15/17	NA	<0.20	21	320	<0.73	NA	0.61	NA	9.4	NA	0.48	NA	0.75	NA	1.8	NA	<1.5	NA	NA	NA
Verizon 3935 East Ca	otro Vello	Baulayard																			
IAV1	-	о.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 IAV1	03/05/15	0.00019 NA	0.049 <0.2	22	<470 210	<1.2 <0.73	<0.090 NA	<1.0 0.37	NA	5.0 2.5	4.3 NA	<2.2 <0.44	0.34 NA	<2.2 0.44	0.34 NA	<8.7 1.1	0.86 NA	<0.1 <1.5	<20 NA	0.12 NA	NA
	03/02/10	IN/A	<0.Z	21	210	<0.75	11/5	0.57	IN/A	2.0	IN/A	\U.44	IN/A	0.44	11/7	1.1	11/71	<1.0	IN/A	11/4	IN/A
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	00,02,10		-0.2		~200	\$1.0		0.40		2.0		.0.00		-0.00		1.0		50.1			
3949 East Ca	stro Valle	v Boulevard	1																		
IAA1	03/05/15	•	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	4,000 NA
	30,0E,10		-0.E	21	100	\$0.70		0.00		0.1				-0.17		1.0		\$1.5			

TABLE 1C INDOOR AIR ANALYTICAL RESULTS - ATMOSPHERIC GASES AND HYDROCARBONS Dry Clean 580 3735 East Castro Valley Boulevard Castro Valley, California (Page 6 of 8)

			Carbon	Oxygen +																	
		Methane	Dioxide	Argon	TPHg		TBE		enzene	-	uene		benzene		lenes		Xylenes	TBA		hthalene	Ethanol
Sample ID	Date	(%V)	(%V)	(%V)	(µg/m ³)	(μ	g/m ³)	()	ug/m ³)	(µg	<u>/m³)</u>	(L	ıg/m ³)	(µ	g/m ³)	(μ	ıg/m ³)	(µg/m ³)	()	ug/m ³)	(µg/m ³)
		SCAQMD	SCAQMD	SCAQMD	GC/MS C6-	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA	EPA
		25.1M	25.1M	25.1M	C12 as Gasoline	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15	TO-15 SIM	TO-15
Environment	tal Screen	ing Levels,	Subslab / S	Soil Gas, Ta	able SG-1 and I	ndoor Ai	r, Table IA-	1 (Febru	uary 2016)		-										
Commercial/In	ndustrial				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		Air																			
Livermore (BA	AAQMD)																				
Minimum								0.11	0.11												
Average								0.71	0.71												
Maximum								2.63	2.63												
East Oakland	i (baaqme	0)																			
Minimum								0	0												
Average								0.95	0.95												
Maximum								4.03	4.03												
Outdoor A	03/05/15		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												uring sampli								
AA	03/15/17	NA	<0.20	21	<100	<0.73	NA	0.42	NA	1.2	NA	<0.44	NA	0.53	NA	1.5	NA	<1.5	NA	NA	NA
Notes:																					
TPHg	=	Total petrol			jasoline.																
MTBE	=	Methyl tertia		er.																	
TBA	=	Tertiary but	·																		
Add'I VOCs	=	Additional v	0																		
SCAQMD	=	South Coas																			
ASTM	=	American S			lateriais.																
EPA	=	Environmer		on Agency.																	
% V	=	Percent by																			
in Hg	=	Inches of m	,																		
µg/m³	=	Micrograms		cubed.																	

ND = Not detected.

< = Less than the stated laboratory reporting limit.

--- = Not applicable/Not specified.

a = Value for total xylenes.

TABLE 1DINDOOR AIR ANALYTICAL RESULTS - VOCsDry Clean 5803735 East Castro Valley BoulevardCastro Valley, California(Page 7 of 8)

									1,3,5-	Trimethyl-	1,2,4-	Trimethyl-			
		Acetone	Brome	omethane	2-Butano	ne (MEK)	4-Ethy	/Itoluene		nzene		enzene	Styr	ene	Additional VOCs
Sample ID	Date	(µg/m ³)	(µ	ug/m ³)	(µg	/m ³)	(μ	g/m ³)	(F	ıg/m ³)	()	ug/m ³)	(µg/		(µg/m ³)
-		EPA	EPA	EPA	EPA	EPA	EPA	EFA	EPA	EPA	EPA	EPA	EPA	EFA	EPA TO-15/
		TO-15	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15	TO-15	TO-15 SIM	TO-15	TO-15 SIM	TO-15	TO-15	EPA TO-15 SIM
Environme	ntal Screeni	ing Levels, S	ubslab /	/ Soil Gas, T	able SG-1 a	and Indoor A	Air, Table		oruary 20	016)				• • • •	
Commercia		140,000	22	22	22,000	22,000							3,900	3,900	
	d Outdoor A	Air													
Livermore (I	BAAQMD)					•									
Minimum															
Average															
Maximum															
	nd (BAAQME	/	1			T	1 1								
Minimum															
Average															
Maximum															
Drv Clea	an 580 Ui	nit													
IA1	03/05/15	25	<1.9	<0.097	<4.4	<1.5	<2.5	<0.25	<2.5	0.12	<7.4	0.55	<6.4	0.16	ND
IA1 Dup	03/05/15	25	<1.9	<0.097	<4.4	<1.5	<2.5	<0.25	<2.5	<0.12	<7.4	0.46	<6.4	0.16	ND
IA1	03/02/16	12	<0.79	NA	1.5	NA	<1.0	NA	<1.0	NA	<1.0	NA	<0.86	NA	ND
IA1	08/04/16	NA	< 0.39	NA	<0.60	NA	< 0.50	NA	< 0.50	NA	0.6	NA	<0.43	NA	ND
IA1	03/15/17	NA	<0.39	NA	1.4	NA	<0.50	NA	<0.50	NA	<0.5	NA	<0.43	NA	ND
IA2	03/05/15	25	<1.9	<0.097	<4.4	<1.5	<2.5	<0.25	<2.5	<0.12	<7.4	0.42	<6.4	0.15	ND
IA2	03/02/16	12	<0.79	NA	<1.2	NA	<1.0	NA	<1.0	NA	<1.0	NA	<0.86	NA	ND
IA2	08/04/16	NA	<0.39	NA	1.5	NA	<0.50	NA	<0.50	NA	<0.5	NA	<0.43	NA	ND
IA2	03/15/17	NA	<0.39	NA	0.84	NA	<0.50	NA	<0.50	NA	<0.5	NA	<0.43	NA	ND
													<0.43		
Verizon															
3935 East 0	Castro Valle	y Boulevard													
IAV1	03/05/15	29	<1.9	<0.097	<4.4	<1.5	<2.5	<0.25	<2.5	<0.12	<7.4	0.39	<6.4	0.59	ND
IAV1	03/02/16	15	<0.39	NA	1.5	NA	<0.50	NA	<0.50	NA	0.63	NA	2.2	NA	ND
IAV2	03/05/15	29	<1.9	<0.097	<4.4	<1.5	<2.5	<0.25	<2.5	<0.12	<7.4	0.43	<6.4	0.49	ND
IAV2	03/02/16	17	<0.79	NA	1.8	NA	<1.0	NA	<1.0	NA	<1.0	NA	1.3	NA	ND
AT&T															
	Castro Valle	y Boulevard													
IAA1	03/05/15	43	<1.9	<0.097	<4.4	1.7	<2.5	<0.25	<2.5	0.12	<7.4	0.54	<6.4	0.67	ND
IAA1	03/02/16	45 16	<0.39	NA	1.6	NA	<0.50	<0.23 NA	<0.50	NA	<0.50	NA	0.43	NA	ND
	00,02,10	10	-0.00		1.0	14/7	-0.00	11/1	-0.00		-0.00		0.40	14/5	

TABLE 1DINDOOR AIR ANALYTICAL RESULTS - VOCsDry Clean 5803735 East Castro Valley BoulevardCastro Valley, California(Page 8 of 8)

		Acetone	Brom	omethane	2-Butano	ne (MEK)	4-Eth	vltoluene		Trimethyl-		Trimethyl-	Stv	rene	Additional VOCs
Sample ID	Date	$(\mu g/m^3)$	-	ig/m ³)		/m ³)		g/m ³)		ug/m ³)		ug/m ³)	,	/m ³)	$(\mu g/m^3)$
		EPA	EPA	EPA	EPA	EPA	EPA	EFA	EPA	EPA	EPA	EPA	EPA	EFA	EPA TO-15/
		TO-15		TO-15 SIM	TO-15	TO-15 SIM		TO-15		TO-15 SIM			TO-15	TO-15	EPA TO-15 SIM
Environme	ntal Screen	ing Levels, S			able SG-1 a			e IA-1 (Feb						<u>CINA</u>	
Commercial		140,000	22	22	22,000	22,000							3,900	3,900	
Backgroun	d Outdoor	Air													
Livermore (E	BAAQMD)														
Minimum															
Average															
Maximum															
East Oaklar	nd (BAAQMI	D)	-			•	-								
Minimum															
Average															
Maximum															
Outdoor	Air														
OA1	03/05/15	14	<1.9	8.0	<4.4	<1.5	<2.5	<0.25	<2.5	<0.12	<7.4	0.32	<6.4	<0.11	ND
OA1	03/02/16	4.4	<0.39	NA	0.79	NA	<0.50	NA	<0.50	NA	<0.50	NA	<0.43	NA	ND
IA2	03/15/17	NA	<0.39	NA	0.90	NA	<0.50	NA	<0.50	NA	<0.5	NA	<0.43	NA	ND
Notes:															
MTBE	=	Methyl tertia	ry butyl e	ther.											
TBA	=	Tertiary buty	l alcohol.												
Add'l VOCs	=	Additional vo	latile org	anic compou	ınds.										

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



Air Sampling into Summa (Indoor, Outdoor, Ambient)

Site Address:	3735 E. Goto Valley Blud, Casto Valley (A	Date: 3-15-17
Project Name:	580 Dryclean / 580 Marketplace	Arrival Time: 0800
Sample Collector:	Ling Kundort	Departure Time: 1540

Sample Information Sample Start Sample Check Sample Check Sample End Flow Flow Initial Check Check End **Field Notes** Summa Start Check End Check Sample ID Controller Rate (hrs Date Vacuum Vacuum Vacuum Vacuum ID # Time Time Time Time ID # (" Hg) or cc/min) (" Hg) (" Hg) (" Hg) TA-1 1 3-15-17 337 F176 9" 840 0805 730" 1531 3-15-17 563 2 tA-2 F194 840 0800 730" 1534 8" AA 6" 3 3-15-17 269 F134 842 0820 30" 1525 4 5 6 7 8 9 10

Weather Conditions	Potential Outdoo	r Sources of Pollution	Househo	ld Products
Weather Summary:	Source	Location	Туре	Ingredient(s)
Barometric Pressure:				
Ambient Temp Avg:				
Ambient Temp High/Low:				
Indoor Air Temp Avg:				
Wind Speed/Direction:				
Other:				

			FLD-100
	Fie	eld Report	Revision 2.0
ENVIRONMENTAL • GEOTECHNICAL Building Sciences • Materials testing			Feb-16
ATC Branch: Modesto, CA		Date: 3-15-17	Page of
ATC Representative(s):		Project: 580 Ducken	
Role:Technician		Project: 580 Dirclean Location: 3735 E. Castro Valley Project No:	Blut Gonthalles of
Contact Information:		Project No:	
Scope of Work:		Weather	Temperature: 70
Monitoring _X Assessment Re	emediation Closure	Contractor:	
Time: Comments:			
0800 ATComile ched	in with store ownou	·	
0805 set up IA 1	mital Incom 730"	Hg & JA2, 19. 4. 1 730" 1+9	both 6L surens
0820 set if A on noo	I I dunpla in the	betiend business ~30"As	62 Source
0930 check all continues	be your dop to	continon sampting	
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1525 dose and box AA	<u>C 6' 44</u>		
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1534 dose at box IA2	p 8'49		
vertuin sequesteurs	chenned containa	, to shonge locations	
at lent two segui	esta bixes has stro.	ng Dunes when opened.	
1540 ATC Hitp			
Equipment Used:			
Contractor Hours (per Person):		Staff / Technician Hours:	Mileage:
Copies To:		Project Manager:	
		Reviewed By:	



2470 Impala Drive, Carlsbad, CA 92010 & Field Office - Signal Hill, CA W handpmg.com E info@handpmg.com P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: Page 1 of

the many series and the	Lat	Client and	d Project	Information	livalent methoda	iba to Art	B ent vo	bonel	rinter		- 1	id aldr	S	Sample	Rece	eipt (La	ib Use	Only)	
Lab Client/Consultant: ATC Grov	10 Services	LLC		Project Name / #:	iso Markets	Jace /	Wein	ander	20			Date	Rec'd:	et) se	VIDEO	Control	#:	or the	
Lab Client Project Manager: Gabe	Group Services LLC Project Name /#: 580 Market place / Weingunden abe Stickla Project Location: 3735 E. Custo Vullar Bird							H&P Project #				Same							
Lab Client Address: 915 Hables	IParte Dr	Suite 2	50	Report E-Mail(s): gabe, stive	la Pates	central d	05 60					Lab W	ork Orc	der#	or ble	in ad w	un'ka	qmise	1 a 1
Lab Client City, State, Zip: Roscuil	le CA	95678		Jim. Kundo	it a atcas	sociates	c					Sampl	le Intact	t: 🗌 Ye	es 🗌	No 🗌	See N	lotes Belo	w
Phone Number: 916-724-	5201		- Q. *		en en en	Jucia	e Co		1.2		1	Recei	ipt Gau	ge ID:	and a	A CONTRACT		Temp:	
Reporting Requireme	ents de la company	T	urnaroun	d Time	Sam	pler Info	rmatior	I work	ne -			Outsid	le Lab:	and the	Siand	anity	ent Te	Payin	
Standard Report 🔲 Level III	Level IV	👿 5-7 da	y Stnd	24-Hr Rush	Sampler(s):	Kun	dort	-				Receip	pt Notes	s/Trackir	ng #:	n riede	lidde	bbero,	
Excel EDD Other EDD:	8	3-day	Rush	Mobile Lab	Signature:	RAA	~	11 * 1001 1											
CA Geotracker Global ID: T100	00004345	🗌 48-Hr	Rush	Other:	Date: 3-15-	2017	. Da D					0000		e door	6H 1	reittel	Lab	PM Initial	ls:
Additional Instructions to Labora	atory:								, t				(0)			20			
* Preferred VOC units (please ch μg/L □ μg/m ³ □ ppbv	oose one):				n gagen is simue 1955 dae ¹⁹ 1814 gennis - C. S. S. 1986 gennis - C. S.			rd Full List	VOCs Short List / Project List	🕅 TO-15	□T0-15	X TO-15m	Aromatic/Aliphatic Fractions	compound PA He	PA 8015m	Fixed Gases by ASTM D1945		iĝ s kong ¹ s	
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, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List	VOCs Short L 8260SV	Oxygenates	Naphthalene	TPHv as Gas	Aromatic/Alip	Leak Check Compound	Methane by EPA 8015m	Fixed Gases			
IA1	35.	31517	0805	iA	6L	337		X		×		X				×			
IA Z		031517	0800	iA.		563		×		×		X				X			
AA		031517	6820	AA	V	269	1.	X		X		X				X			
							ane -												
																$\left \right $			
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							6.4												
Approved/Relinquished by:	~	Company		Date:	Time:	Received by:						Company			Date:			Time:	
Approved/Relinquished by:		Company: Company:	TC	Date: 3-16-17 Date:	Time: 1300	Received by:						Company			Date:			Time:	
					Timor								et.			St.			
Approved/Relinquished by:		Company:		Date:	Time:	Received by:						Company	9		Date:			Time:	

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

Appendix 6A1, Rev 5/23/2016, Effective 5/23/2016



Equipment Loan / Rental Documentation

FMA027 Revision: 0 Effective: 09/01/2014 Page: 1 of 1

CLIENT: ATC Modesto

CLIENT PROJECT:	San	Matio Unoral	# 3294
CLIENT CONTACT:	Jim	Kundert	

DATE SENT: 3/10/17

H&P PROJECT #:_____

CHECKED IN BY: _____

		SU	MMA CANIS	TER INFORM	ΑΠΟΝ				SAMPLING KIT & FLOW CHOKE INFORMATION					
CAN ID #	ТҮРЕ	VAC out	DATE RET	VAC in	USED	UNUSED	NOTES		ID#		FLOW RATE (cc/min)*			
269	ioL	-29.60					ana ang ak panja si dan ka si		F176		the second se	DATE RET		
337	<u> </u>	-29.65						┨┠─		<u> 20</u>	11.5			
543	Ł	-29.64						┨┠─	F134		11.55			
				······				┨┠	Flau	4	11.5			
					······	<u> </u>		┥┣						
								┥┝╴			and the set of and ages three frequencies ready to set			
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	······································					<u> </u>								
				L										

	OTHERE	QUIPMENT		
DESCRIPTION	# OUT	# IN	DATE RET	
OTHER:				
OTHER:				
*Note: Flow rate is to be measured for flow chokes and samplin	ng kits	<u>OTES</u>		

PLEASE NOTE: ALL SUMMAS AND SAMPLING EQUIPMENT RENTED OUT BY H&P MUST BE RETURNED WITHIN 30 DAYS Vapor Supplies Checklist attached. Please use both sheets to properly track all rental equipment

Vapor Supplies Check List Call H&P for support: 800-834-9888 copy of this sheet with your items to:

ad, CA 9201 andpmg.con	H&P IN HUUSE #		
	PREPARED BY	PREPARED FOR	
	rvices Name: Tori	pany: ATC Group Se	Com
		ntact: Jim Kunder	
	Deal Station#3294 Est. Delivery Date: 3/13/17	ame: San Mateo Uni	Project N
		&P#: ATC031017-	
		tus #: 170228.00	
urn Labe	RETURNED COMPLETE? □Yes □No INITIA FSG 00	Sampling Instructions: IOTE: ALL SUMMAS AND S	図 Vapor ** <i>PLEASE</i> N
<u> </u>	SUMMA CANISTERS		
QTY RE	DESCRIPTION	ITEM	QTY SENT
_	400 mL 1 Liter X 6 Liter	A - Summa Canister	3
	Used Unused (0400mL 01 Liter 06 Liter)	* Back-Up Summa	0
	Batch Certified X Individually Certified	TOTAL SUMMAS	3
	e for back-up if returning unused OR if used to replace faulty equipment VAPOR SAMPLING EQUIPMENT	* No charg	
QTY RE	DESCRIPTION	ITEM	QTY SENT
	□ 50 ml/min □ 150 ml/min □ Other	B - Sampling Kit	<u> </u>
1		* Back-Up	
	Set with male & female luer connections connected with Tygon tubing	J - Inline Gauge	<u> </u>
		A. Courseline Adapted	
	1/8" Male NPT Thread fitting w/ 1/8" Barb	M - Sampling Adapter	
	1/8" Male NPT Thread fitting w/ 1/8" Barb	Flow Regulators	3
			3
	× 8-HR □ 24-HR IW HOOK 2. W barb	Flow Regulators	3

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	0.5 Liter I Liter w/ kit (syringe, valve, male luer fitting)

SPECIFICATION	VAPOR PROBE(S)
# of Vapor Probes	#@', #@', #@'
Filter Type	🗅 Airstone 🛛 SS Impant 🖓 Other
Tubing Type & Size	□ 1/8" Nylaflow □ 1/4" Teflon □ 1/4" Nylaflow □ Other
Terminiation Type	1-way valve SS Swagelok

APPENDIX B

LABORATORY ANALYTICAL REPORTS



31 March 2017

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

H&P Project: ATC032017-11 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 20-Mar-17 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,

Janos Jakoux

Janis La Roux Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC). H&P is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

Quality. Accuracy. Experience.

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Roseville, CA 95678	Project Number: 380 Ma Project Manager: Mr. Ga	be Stivala	Reported: 31-Mar-17 11:33
ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250	Project: ATC03 Project Number: 580 Ma		

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IA1	E703103-01	Vapor	15-Mar-17	20-Mar-17
IA2	E703103-02	Vapor	15-Mar-17	20-Mar-17
AA	E703103-03	Vapor	15-Mar-17	20-Mar-17

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678	Project: ATC Project Number: 580 M Project Manager: Mr. C	Repor 31-Ma	ted: ar-17 11:33		
	DETECTIONS SUM	IMARY			
Sample ID: IA1	Laboratory ID: E	2703103-01			
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Oxygen	21	0.20	%	ASTM D1945	
Dichlorodifluoromethane (F12)	0.0018	0.0010	ug/l	EPA TO-15	
Chloromethane	0.0010	0.00021	ug/l	EPA TO-15	
Trichlorofluoromethane (F11)	0.0013	0.00056	ug/l	EPA TO-15	
Methylene chloride (Dichloromethane)	0.00046	0.00035	ug/l	EPA TO-15	
2-Butanone (MEK)	0.0014	0.00060	ug/l	EPA TO-15	
Benzene	0.00065	0.00016	ug/l	EPA TO-15	
Carbon tetrachloride	0.00045	0.00032	ug/l	EPA TO-15	
Toluene	0.013	0.00076	ug/l	EPA TO-15	
Ethylbenzene	0.00044	0.00044	ug/l	EPA TO-15	
m,p-Xylene	0.0016	0.00044	ug/l	EPA TO-15	
o-Xylene	0.00057	0.00044	ug/l	EPA TO-15	
TPHv (C5 - C12)	0.26	0.10	ug/l	EPA TO-15	
Sample ID: IA2	Laboratory ID: E	2703103-02			
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Oxygen	21	0.20	%	ASTM D1945	
Dichlorodifluoromethane (F12)	0.0019	0.0010	ug/l	EPA TO-15	
Chloromethane	0.0011	0.00021	ug/l	EPA TO-15	
Trichlorofluoromethane (F11)	0.0014	0.00056	ug/l	EPA TO-15	
Methylene chloride (Dichloromethane)	0.00042	0.00035	ug/l	EPA TO-15	
2-Butanone (MEK)	0.00084	0.00060	ug/l	EPA TO-15	
Benzene	0.00061	0.00016	ug/l	EPA TO-15	
Carbon tetrachloride	0.00051	0.00032	ug/l	EPA TO-15	
Toluene	0.0094	0.00076	ug/l	EPA TO-15	
Ethylbenzene	0.00048	0.00044	ug/l	EPA TO-15	
m,p-Xylene	0.0018	0.00044	ug/l	EPA TO-15	
o-Xylene	0.00075	0.00044	ug/l	EPA TO-15	
1,2,4-Trimethylbenzene	0.00055	0.00050	ug/l	EPA TO-15	
TPHv (C5 - C12)	0.32	0.10	ug/l	EPA TO-15	
Sample ID: AA	Laboratory ID: E	2703103-03			
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Oxygen	21	0.20	%	ASTM D1945	
Dichlorodifluoromethane (F12)	0.0018	0.0010	ug/l	EPA TO-15	

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678	Project: ATC032 Project Number: 580 Mai Project Manager: Mr. Gab		Reported: 31-Mar-17 11:33						
Sample ID: AA	Laboratory ID: E70	Laboratory ID: E703103-03							
		Reporting							
Analyte	Result	Limit	Units	Method	Notes				
Chloromethane	0.0010	0.00021	ug/l	EPA TO-15					
Trichlorofluoromethane (F11)	0.0012	0.00056	ug/l	EPA TO-15					
Methylene chloride (Dichloromethane)	0.00046	0.00035	ug/l	EPA TO-15					
2-Butanone (MEK)	0.00090	0.00060	ug/l	EPA TO-15					
Benzene	0.00042	0.00016	ug/l	EPA TO-15					
Carbon tetrachloride	0.00045	0.00032	ug/l	EPA TO-15					
Toluene	0.012	0.00076	ug/l	EPA TO-15					
m,p-Xylene	0.0015	0.0015 0.00044 ug/l E							
o-Xylene	0.00053	0.00044	ug/l	EPA TO-15					

	Pre	oject: AT	C032017-11					
	Project Nur	mber: 580	Marketplac	e / Weingar	den		Reported:	
	Project Man		31-Mar-17 11:33					
	Soil Gas a	nd Vap	or Analy	sis				
Н	[&P Mobil	e Geocl	nemistry,	Inc.				
Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
7 Received: 20-	Mar-17							
ND	0.20	%	1	EC72211	22-Mar-17	22-Mar-17	ASTM D1945	
21	0.20	"	"	"	"	"	"	
7 Received: 20-	Mar-17							
ND	0.20	%	1	EC72211	22-Mar-17	22-Mar-17	ASTM D1945	
21	0.20	"	"	"	"	"	"	
7 Received: 20-1	Mar-17							
ND	0.20	%	1	EC72211	22-Mar-17	22-Mar-17	ASTM D1945	
21	0.20	"	"	"	"	"	"	
	Result 7 Received: 20- ND 21 7 Received: 20- ND 21 7 Received: 20- 21 7 Received: 20- ND 21 7 Received: 20- ND 21	Project Nun Project Mar Soil Gas a H&P Mobil Result Reporting Limit Received: 20-Mar-17 ND 0.20 21 0.20 7 Received: 20-Mar-17 ND 0.20 21 0.20 7 Received: 20-Mar-17 ND 0.20 21 0.20 7 Received: 20-Mar-17 ND 0.20 21 0.20 21 0.20 21 0.20 21 0.20 21 0.20 21 0.20 21 0.20 21 0.20 21 0.20	Project Number: 580 Project Manager: Mr. Soil Gas and Vap H&P Mobile Geocl Result Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" 7 Received: 20-Mar-17 ND 0.20 % 21 0.20 " 7 Received: 20-Mar-17 ND 0.20 " 7 Received: 20-Mar-17	Project Manager: Mr. Gabe Stival Soil Gas and Vapor Analy H&P Mobile Geochemistry, Result Limit Units Factor 7 Received: 20-Mar-17 ND 0.20 % 1 21 0.20 " " 7 Received: 20-Mar-17 ND 0.20 % 1 21 0.20 " " 7 Received: 20-Mar-17 ND 0.20 % 1 21 0.20 % 1	Project Number: 580 Marketplace / Weingare Project Manager: Mr. Gabe Stivala Soil Gas and Vapor Analysis H&P Mobile Geochemistry, Inc. Dilution Reporting Dilution Result Dilution Result Dilution Batch 7 Received: 20-Mar-17 " " 7 Received: 20-Mar	Project Number: 580 Marketplace / Weingarden Project Manager: Mr. Gabe Stivala Soil Gas and Vapor Analysis Bebolie Geochemistry, Inc. Beporting Limit Dilution Result Limit Units Factor Batch Prepared 7 Received: 20-Mar-17 1 EC72211 22-Mar-17 21 0.20 % 1 EC72211 22-Mar-17 7 Received: 20-Mar-17 " " " 7 Received: 20-Mar-17 1 EC72211 22-Mar-17 21 0.20 % 1 EC72211 22-Mar-17 7 Received: 20-Mar-17 " " " " 7 Received: 20-Mar-17 " " " " " 7	Project Number: 580 Marketplace / Weingarden Project Manager: Mr. Gabe StivalaSoit Gas and Vapor AnalysisIt & Pobile Geochemistry, Inc.Mobile Geochemistry, Inc.ResultDilution FactorBatchPreparedAnalyzed7Received: 20-Mar-17210.20%1EC7221122-Mar-1722-Mar-177Received: 20-Mar-177Received: 20-Mar-1722-Mar-177Received: 20-Mar-177Received: 20-Mar-177Received: 20-Mar-177Received: 20-Mar-177Received: 20-Mar-177Received: 20-Mar-177Received: 20-Mar-177Received: 20-Mar-1790.20%190.20%18Received: 20-Mar-1790.20%190.20%190.20%18Received: 20-Mar-179ND0.20%1EC7221190.20190.201912-Mar-1	Project Number: 580 Marketplace / WeingardenReported: 31-Mar-17 11:33Project Manager: Mr. Gabe StivalaReported: 31-Mar-17 11:33Jointon Factor AnalysisReporting Coochemistry, Inc.ResultDilution FactorPreparedAnalyzedMethodND Co.200.20%1EC72211 22-Mar-1722-Mar-17 22-Mar-17ASTM D1945 "ND Co.200.20%1EC72211 22-Mar-1722-Mar-17 22-Mar-17ASTM D1945 "ND Co.200.20%1EC72211 22-Mar-1722-Mar-17 22-Mar-17ASTM D1945 "ND Co.200.20%1EC72211 22-Mar-1722-Mar-17 22-Mar-17ASTM D1945 "MD Co.200.20%1EC72211 22-Mar-1722-Mar-17 22-Mar-17ASTM D1945 "MD Co.200.20%1EC72211 22-Mar-1722-Mar-17 22-Mar-17ASTM D1945 "MD Co.200.20%1EC72211 22-Mar-1

Tetrachloroethene

1,2-Dibromoethane (EDB)

1,1,1,2-Tetrachloroethane

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ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678			mber: 580	-	ce / Weingar	den		Reported: 31-Mar-17 11:33	
	Volatil	e Organic (Compou	inds by l	EPA TO-	15			
	1	H&P Mobi	le Geocl	nemistry	, Inc.				
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA1 (E703103-01) Vapor Sampled: 15-Mar-17	Received: 20	-Mar-17							
Dichlorodifluoromethane (F12)	0.0018	0.0010	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
Chloromethane	0.0010	0.00021	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.00071	"	"	"	"	"	"	
Vinyl chloride	ND	0.00013	"	"	"	"	"	"	
Bromomethane	ND	0.00039	"	"	"	"	"	"	
Chloroethane	ND	0.00027	"	"	"	"		"	
Trichlorofluoromethane (F11)	0.0013	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)	0.00046	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)	0.0014	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	0.00065	0.00016							
Carbon tetrachloride	0.00045	0.00032							
Tertiary-amyl methyl ether (TAME) Trichloroethene	ND	0.00085	"						
	ND	0.00055							
l,2-Dichloropropane	ND	0.00047		"				"	
Bromodichloromethane xis-1,3-Dichloropropene		0.00068	"		"				
4-Methyl-2-pentanone (MIBK)	ND ND	0.00046			"			"	
rans-1,3-Dichloropropene		0.00083	"		"				
rans-1,5-Dichloropropene	ND	0.00046 0.00076	"		"				
1,1,2-Trichloroethane	0.013 ND	0.00076			"				
2-Hexanone (MBK)		0.00055			"			"	
Dibromochloromethane	ND ND				"			"	
	UN	0.00086							

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0.00078

0.00070

ND

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ATC Group Services - Roseville	Project: ATC	032017-11	
915 Highland Pointe Drive, Suite 250	Project Number: 580	Marketplace / Weingarden	Reported:
Roseville, CA 95678	Project Manager: Mr.	Gabe Stivala	31-Mar-17 11:33

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

		Reporting		•	,				
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA1 (E703103-01) Vapor Sampled: 15-Mar	-17 Received: 20-	-Mar-17							
Chlorobenzene	ND	0.00047	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
Ethylbenzene	0.00044	0.00044	"	"	"	"	"	"	
m,p-Xylene	0.0016	0.00044	"	"	"	"		"	
Styrene	ND	0.00043	"	"	"	"	"	"	
o-Xylene	0.00057	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		101 %	76-	134	"	"	"	"	
Surrogate: Toluene-d8		103 %	78-	125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	77-	127	"	"	"	"	
IA2 (E703103-02) Vapor Sampled: 15-Mar	-17 Received: 20-	-Mar-17							
Dichlorodifluoromethane (F12)	0.0019	0.0010	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
Chloromethane	0.0011	0.00021	"	"	"	"		"	
Dichlorotetrafluoroethane (F114)	ND	0.00071	"	"	"	"		"	
Vinyl chloride	ND	0.00013	"	"	"	"		"	
Bromomethane	ND	0.00039	"	"	"	"		"	
Chloroethane	ND	0.00027	"	"	"	"		"	
Trichlorofluoromethane (F11)	0.0014	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)	0.00042	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)	0.00084	0.00060	"	"	"		"	"	
cis-1,2-Dichloroethene	0.00004 ND	0.00040	"	"	"	"	"	"	
,		0.00010							

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678			mber: 580	C032017-11 Marketplac Gabe Stival	-	den		Reported: 31-Mar-17 11:33	
	Volatil	e Organic (Compou	inds by H	EPA TO-	15			
	ŀ	I&P Mobil	e Geoch	nemistry,	Inc.				
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA2 (E703103-02) Vapor Sampled: 15-Mar-	17 Received: 20	-Mar-17				-	-		
Diisopropyl ether (DIPE)	ND	0.00085	ug/l	1	EC72109	21-Mar-17	22-Mar-17	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	0.00061	0.00016	"	"	"	"		"	
Carbon tetrachloride	0.00051	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	0.0094	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		"	"	"		"	
1,1,2-Tetrachloroethane	ND	0.00070		"				"	
Chlorobenzene	ND	0.00047		"	"	"		"	
Ethylbenzene	0.00048	0.00044		"	"	"		"	
m,p-Xylene	0.0018	0.00044		"	"	"		"	
Styrene	ND	0.00043		"	"	"		"	
o-Xylene	0.00075	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	0.00055	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	0.0001		"		"	"	"	
Hexachlorobutadiene	ND	0.0013		"		"	"	"	

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678			nber: 580	-	e / Weingar	len		Reported: 31-Mar-17 11:33	
	Volatile	e Organic (Compou	inds by l	EPA TO-	15			
	ŀ	I&P Mobil	e Geocl	nemistry	, Inc.				
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA2 (E703103-02) Vapor Sampled: 15-Mar	-17 Received: 20								
Surrogate: Toluene-d8		103 %	78-		EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
Surrogate: 4-Bromofluorobenzene		91.9 %	77-	127	"	"	"	"	
AA (E703103-03) Vapor Sampled: 15-Mar-	-17 Received: 20-	Mar-17							
Dichlorodifluoromethane (F12)	0.0018	0.0010	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
Chloromethane	0.0010	0.00021	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.00071	"	"	"	"	"	"	
Vinyl chloride	ND	0.00013	"	"	"	"	"	"	
Bromomethane	ND	0.00039	"	"	"	"	"	"	
Chloroethane	ND	0.00027	"	"	"	"	"	"	
Frichlorofluoromethane (F11)	0.0012	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)	0.00046	0.00035	"	"	"	"	"	"	
Carbon disulfide	ND	0.00032	"	"	"	"	"	"	
rans-1,2-Dichloroethene	ND	0.00040	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	0.00073	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.00041	"	"	"	"	"	"	
2-Butanone (MEK)	0.00090	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	0.00042	0.00016	"	"	"	"	"	"	
Carbon tetrachloride	0.00045	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	"	"	"	"	"	"	
rans-1,3-Dichloropropene	ND	0.00046	"	"	"	"	"	"	
Foluene	0.012	0.00076	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.00055	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.00083	"	"	"	"	"	"	

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915 Highland Pointe Drive, Suite 250 Roseville, CA 95678	Project Number: 580 Marketplace / Weingarden Project Manager: Mr. Gabe Stivala Volatile Organic Compounds by EPA TO-15	Reported: 31-Mar-17 11:33
ATC Group Services - Roseville	Project: ATC032017-11	

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

					J	,				
Analyte		Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA (E703103-03) Vapor	Sampled: 15-Mar-17	Received: 20-	Mar-17							
Dibromochloromethane		ND	0.00086	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
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		0.0015	0.00044	"	"	"	"		"	
Styrene		ND	0.00043	"	"	"	"		"	
o-Xylene		0.00053	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-Dichloroeth	ane-d4		98.0 %	76-1	34	"	"	"	"	
Surrogate: Toluene-d8			104 %	78-1	25	"	"	"	"	
Surrogate: 4-Bromofluorob	enzene		93.9 %	77-1	27	"	"	"	"	

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678		Project Nur	nber: 580	C032017-11) Marketplac . Gabe Stival	e / Weingar		Reported: 31-Mar-17 11:33		
	Pe	troleum H	lydroca	rbon An	alysis				
	Н	&P Mobil	e Geoc	hemistry,	, Inc.				
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA1 (E703103-01) Vapor Sampled: 15-	Mar-17 Received: 20-N	Mar-17							
TPHv (C5 - C12)	0.26	0.10	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
IA2 (E703103-02) Vapor Sampled: 15-	Mar-17 Received: 20-N	Mar-17							
TPHv (C5 - C12)	0.32	0.10	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	
AA (E703103-03) Vapor Sampled: 15-1	Mar-17 Received: 20-N	1ar-17							
TPHv (C5 - C12)	ND	0.10	ug/l	1	EC72109	21-Mar-17	22-Mar-17	EPA TO-15	

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678		Project Nu	mber: 580	C032017-11) Marketplac : Gabe Stival	U	den		1	orted: 1ar-17 11:33	
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
Batch EC72211 - GC Blank (EC72211-BLK1) Carbon dioxide	ND	0.20	%	Prepared &	z Analyzed:	22-Mar-17				

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ATC Group Services - Roseville	Project:	ATC032017-11							
915 Highland Pointe Drive, Suite 250	Project Number:	580 Marketplace / Weingarden	Reported:						
Roseville, CA 95678	Project Manager:	Mr. Gabe Stivala	31-Mar-17 11:33						
Valatila Organia Compounds by EPA TO 15 Quality Control									

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

H&P Mobile Geochemistry, Inc.												
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch EC72109 - TO-15												
<u> 31ank (EC72109-BLK1)</u>				Prepared &	Analyzed:	21-Mar-17						
Dichlorodifluoromethane (F12)	ND	0.0010	ug/l									
Chloromethane	ND	0.00021	"									
Dichlorotetrafluoroethane (F114)	ND	0.00071	"									
/inyl chloride	ND	0.00013	"									
Bromomethane	ND	0.00039	"									
Chloroethane	ND	0.00027	"									
Frichlorofluoromethane (F11)	ND	0.00056	"									
,1-Dichloroethene	ND	0.00040	"									
Fertiary-butyl alcohol (TBA)	ND	0.0015	"									
,1,2-Trichlorotrifluoroethane (F113)	ND	0.00077	"									
Methylene chloride (Dichloromethane)	ND	0.00035	"									
Carbon disulfide	ND	0.00032	"									
rans-1,2-Dichloroethene	ND	0.00040	"									
Methyl tertiary-butyl ether (MTBE)	ND	0.00073	"									
,1-Dichloroethane	ND	0.00041	"									
P-Butanone (MEK)	ND	0.00060	"									
is-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-Trichloroethane	ND	0.00055	"									
,2-Dichloroethane (EDC)	ND	0.00041	"									
Benzene	ND	0.00041	"									
Carbon tetrachloride	ND	0.00032	"									
Fertiary-amyl methyl ether (TAME)	ND	0.00085	"									
Frichloroethene	ND	0.00055	"									
,2-Dichloropropane	ND	0.00033	"									
Bromodichloromethane	ND	0.00047	"									
is-1,3-Dichloropropene	ND	0.00046	"									
-Methyl-2-pentanone (MIBK)	ND	0.00040	"									
rans-1,3-Dichloropropene	ND	0.00046	"									
Foluene	ND	0.00040	"									
,1,2-Trichloroethane	ND	0.00075	"									
2-Hexanone (MBK)	ND	0.00083	"									

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678		Pr Project Nu Project Mar	Reported: 31-Mar-17 11:33							
	Volatile Organ	ic Compour	nds by E	EPA TO-1	5 - Qua	lity Con	trol			
		H&P Mobi	le Geocl	hemistry,	Inc.					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC72109 - TO-15										
Blank (EC72109-BLK1)				Prepared &	Analyzed:	21-Mar-17				
Dibromochloromethane	ND	0.00086	ug/l							
Tetrachloroethene	ND	0.00069	"							
,2-Dibromoethane (EDB)	ND	0.00078								
,1,1,2-Tetrachloroethane	ND	0.00070	"							
Chlorobenzene	ND	0.00047	"							
Ethylbenzene	ND	0.00044	"							
n,p-Xylene	ND	0.00044								
Styrene	ND	0.00043								
p-Xylene	ND	0.00044								
Bromoform	ND	0.0010	"							
,1,2,2-Tetrachloroethane	ND	0.00070	"							
I-Ethyltoluene	ND	0.00050	"							
,3,5-Trimethylbenzene	ND	0.00050	"							
,2,4-Trimethylbenzene	ND	0.00050	"							
,3-Dichlorobenzene	ND	0.00061	"							
,4-Dichlorobenzene	ND	0.00061	"							
,2-Dichlorobenzene	ND	0.00061	"							
,2,4-Trichlorobenzene	ND	0.0019								
Hexachlorobutadiene	ND	0.0027	"							
Surrogate: 1,2-Dichloroethane-d4	0.0448		"	0.0429		105	76-134			
Surrogate: Toluene-d8	0.0420		"	0.0414		101	78-125			
Surrogate: 4-Bromofluorobenzene	0.0604		"	0.0729		82.8	77-127			
LCS (EC72109-BS1)				Prepared &	z Analyzed:	21-Mar-17				
Dichlorodifluoromethane (F12)	0.018	0.0010	ug/l	0.0202	•	91.6	59-128			
Vinyl chloride	0.0082	0.00013	"	0.0104		79.0	64-127			
Chloroethane	0.0083	0.00027		0.0107		77.4	63-127			
Frichlorofluoromethane (F11)	0.020	0.00056		0.0226		88.7	62-126			
,1-Dichloroethene	0.014	0.00040		0.0162		86.4	61-133			
,1,2-Trichlorotrifluoroethane (F113)	0.027	0.00077		0.0310		88.2	66-126			
Methylene chloride (Dichloromethane)	0.011	0.00035		0.0142		78.4	62-115			
rans-1,2-Dichloroethene	0.012	0.00040		0.0162		74.4	67-124			
,1-Dichloroethane	0.013	0.00041		0.0165		80.2	68-126			

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ATC Group Services - Roseville	Project: ATC032017-11	
915 Highland Pointe Drive, Suite 250	Project Number: 580 Marketplace / Weingarden	Reported:
Roseville, CA 95678	Project Manager: Mr. Gabe Stivala	31-Mar-17 11:33

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EC72109 - TO-15

LCS (EC72109-BS1)	Prepared & Analyzed: 21-Mar-17									
cis-1,2-Dichloroethene	0.013	0.00040	ug/l	0.0160	78.7	70-121				
Chloroform	0.017	0.00025	"	0.0198	86.3	68-123				
1,1,1-Trichloroethane	0.020	0.00055	"	0.0222	91.5	68-125				
1,2-Dichloroethane (EDC)	0.014	0.00041	"	0.0165	87.5	65-128				
Benzene	0.011	0.00016	"	0.0130	83.9	69-119				
Carbon tetrachloride	0.026	0.00032	"	0.0256	100	68-132				
Trichloroethene	0.021	0.00055	"	0.0219	95.0	71-123				
Toluene	0.013	0.00076	"	0.0154	86.9	66-119				
1,1,2-Trichloroethane	0.019	0.00055	"	0.0222	87.1	73-119				
Tetrachloroethene	0.026	0.00069	"	0.0276	95.0	66-124				
1,1,1,2-Tetrachloroethane	0.028	0.00070	"	0.0280	99.5	67-129				
Ethylbenzene	0.017	0.00044	"	0.0177	95.0	70-124				
m,p-Xylene	0.017	0.00044	"	0.0177	96.2	61-134				
o-Xylene	0.016	0.00044	"	0.0177	91.5	67-125				
1,1,2,2-Tetrachloroethane	0.021	0.00070	"	0.0280	75.7	65-127				
Surrogate: 1,2-Dichloroethane-d4	0.0436		"	0.0429	102	76-134				
Surrogate: Toluene-d8	0.0413		"	0.0414	99.9	78-125				
Surrogate: 4-Bromofluorobenzene	0.0700		"	0.0729	96.0	77-127				

ATC Group Services - Roseville 915 Highland Pointe Drive, Suite 250 Roseville, CA 95678		Project: ATC032017-11 Project Number: 580 Marketplace / Weingarden Project Manager: Mr. Gabe Stivala											
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			
Batch EC72109 - TO-15 Blank (EC72109-BLK1) IPHv (C5 - C12)	ND	0.10	ug/l	Prepared &	z Analyzed:	21-Mar-17							

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ATC Group Services - Roseville	Project:	ATC032017-11	
915 Highland Pointe Drive, Suite 250	Project Number:	580 Marketplace / Weingarden	Reported:
Roseville, CA 95678	Project Manager:	Mr. Gabe Stivala	31-Mar-17 11:33

Notes and Definitions

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

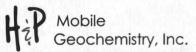
H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs, accreditation number 69070 for EPA Method TO-15, H&P Method TO-15, EPA Method 8260B and H&P 8260SV.

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.



2470 Impala Drive, Carlsbad, CA 92010 & Field Office - Signal Hill, CA W handpmg.com E info@handpmg.com P 760.804.9678 F 760.804.9159

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

Appendix 6A1, Rev 5/23/2016, Effective 5/23/2016