

Nowell, Keith, Env. Health

From: Martin Hohensee <martinhohensee@gmail.com>
Sent: Thursday, May 11, 2017 1:10 PM
To: Nowell, Keith, Env. Health
Cc: Peter McIntyre; John Gutierrez; wilmgmt@pacbell.net; Donna Brown Zeigler
Subject: My study at 321 and 323 63rd
Attachments: Rockwood Soil Gas Report 2017 0505.pdf; ATT00001.txt

Hi Keith,

I cannot remember if I forwarded you this report, but in any case here it is. I understand that this may not satisfy the County's requirements for your own work, but I'm still reassured that I can provide this to my tenants in an expeditious manner. I hope this is of some help to you.

Also, as I mentioned in email earlier I will be happy to provide you with access to 323 given sufficient advance notice and specific scope of your study. I will also do whatever is in my power to facilitate access to 321. To wit, I have copied the homeowners association manager on this email. They will be your primary point of contact on 321.

Thank you and good luck closing this case.

Martin Hohensee
541 848 7019



AEI Consultants

Environmental & Engineering Services

May 5, 2017

Limited Soil Gas Assessment

Property Identification:

321-323 63rd Street
Oakland, California

AEI Project No. 371857

Prepared for:

Mr. Martin Hohensee
Rockwood Condominiums, LLC
919 NW Bond Street, #302
Bend, OR 97703

Prepared by:

AEI Consultants
2500 Camino Diablo
Walnut Creek, California
(925) 746-6000

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Figure 1: Site Location Map

Figure 2: Site Map

Table 1: Soil Gas Sample Data Summary

Analytical Report



AEI Consultants

Environmental & Engineering Services

May 5, 2017

Mr. Martin Hohensee
Rockwood Condominiums, LLC
919 NW Bond Street, #302
Bend, OR 97703

Subject: Limited Soil Gas Assessment
321-323 63rd Street
Oakland, California
AEI Project No. 371857

Dear Mr. Hohensee:

This report presents the results of the soil gas investigation performed by AEI Consultants (AEI) at the above referenced subject property. The investigation was completed in general accordance with the authorized scope of services outlined in our proposal dated April 26, 2017 (AEI Proposal Number 52303). The location of the subject property is shown on Figure 1.

The purpose of the investigation was to assess shallow soil gas conditions relating to the documented release of volatile organic compounds (VOCs) in particular tetrachloroethylene (PCE) from a dry-cleaning operation at the adjacent property to the east.

1.0 SITE DESCRIPTION AND CONTEXT

The subject property is located south side of 63rd Street, just west of College Avenue in a residential and commercial area of Oakland. The property is improved with two 4-unit residential buildings. AEI understands that the property has undergone conversion to condominiums which are currently for sale. As such the project was designed, setup, and implemented under time constraints. Refer to Figures 1 and 2 for location and layout of the property.

The site located immediately to the east is a commercial property on which a release of dry-cleaning solvents, primarily PCE has occurred. That release is receiving regulatory oversight by the Alameda County Environmental Health Department (ACEH). Investigations has been conducted and certain remedial actions have been implemented. ACEH recently issued a letter requesting that the owner of the subject property allow access to the subject property for the responsible parties of the adjacent release to conduct subsurface investigation into the nature and extent of their release of PCE and related contaminants.

2.0 SCOPE OF WORK

This investigation focused on assessing whether the soil gas immediately of the subject property had been adversely and significantly impacted by vapor phase contaminants that may indicate a potential for vapor intrusion to the onsite residences. The investigation was not designed to investigate the extent of impacts to the subject property or to satisfy the requirements of the above referenced ACEH request letter.

The scope of work included the collection and analyses of four (4) soil gas samples immediately adjacent and east of the two subject property residential buildings. Location of samples are shown on Figure 2.

As soon as field work was scheduled, the property manager was notified to turn off any landscape irrigation in the area of the samples. A permit for temporary soil gas probes was obtained from Alameda County Public Works Agency.

2.1 Health and Safety Plan

A site-specific health and safety plan was prepared, reviewed by onsite personnel, and kept onsite for the duration of the fieldwork.

2.2 Utility Clearance

Prior to drilling activities, private utility locating was conducted by Foresite Engineering Surveys of Pleasant Hill, California under subcontract to AEI to identify and locate underground utilities, including the location of the sanitary sewer line, in the drilling locations. Underground Service Alert North was also notified as required.

2.3 Soil Gas Sampling Points

Four soil gas borings (SV-1 through SV-4) were advanced to a depth of 5.5-feet bgs. Upon completion of drilling the borings, temporary soil gas sampling points were installed in each boring. Temporary soil gas sampling points were constructed in general accordance with the guidelines presented in the *Advisory: Active Soil Gas Investigations*, prepared by the California Department of Toxic Substances Control (DTSC), et al., dated July 2015. Construction of the sampling points began by placing approximately 6 inches of clean, dry sand (Lonestar No. 2/12 sand) into the bottom of each borehole. This was followed by the installation of a temporary soil gas probe attached to inert Teflon® tubing extending to the top of the sand pack. The soil gas probes were positioned at the five-foot depth in each boring. After the probe and tubing were installed at each location, an additional six-inches of clean, dry sand was added above the tip of the probe and extended upward to the 4.5-foot depth. The borehole annulus above the sand pack was then filled with an approximate one-foot layer of dry granular bentonite, followed by the placement of hydrated granular bentonite to grade.

Upon installation, the temporary points were allowed to equilibrate for a minimum of two-hours. Prior to sampling, a series of quality assurance/quality control (QA/QC) tests, including shut-in tests, leak tests, and line purging, were performed in sequential order at each location in accordance with the DTSC Advisory. Shut-in tests were conducted to check for leaks in the above-ground sampling system. Leak tests were performed using isopropyl alcohol and 1,1-difluoroethane (1,1-DFA) to evaluate if leakage or ambient air was introduced into the soil vapor samples during collection. Line purging (purge volume testing) was performed to ensure that stagnant air was removed from the sampling system (i.e., inert tubing, void spaces around the sand filter pack surrounding the soil vapor probe tip, and dry, granular bentonite in the annular space). During line purging, up to three system volumes of air were purged from each probe.

Upon completion of the assembly testing at each location, soil gas samples were obtained with 1-liter Summa™ canisters fitted with laboratory-calibrated, flow controllers equipped with vacuum gauges and particulate filters. Each canister was individually checked, tested, and certified by the laboratory for air tightness and proper vacuum prior to shipping. The Summa™ canisters were connected to the inert tubing, which daylighted from the borings above the ground surface. The samples were obtained at a flow rate between 100 and 200 milliliters per minute. Initial and final readings on the vacuum gauge were recorded at the beginning and end of the sampling process to confirm sample collection. Sampling was completed with a slight vacuum remaining in the canisters.

Upon sample retrieval, the Summa™ canisters were labeled with the appropriate project information, including the project name, project number, sample location and depth, date and time of sampling, sampler's name, canister identification number, and the initial and final canister vacuums. Chain-of-custody documentation was completed and accompanied the Summa™ canisters to the analytical laboratory.

3.0 LABORATORY ANALYSES

The four (4) soil gas samples were submitted to ASC Lab Sciences, California certified analytical laboratory, for analyses. Samples were analyzed for select Volatile Organic Compounds (VOCs) tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride using EPA Method TO-15. 2-propanal and 1,1-difluoroethane were also analyzed for as these were used as part of the leak-check process. Chain-of-custody documentation and certified analytical report is attached.

4.0 FINDINGS

Analytical results generated during this investigation were compared to the February 2016 California Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) under a residential land use scenario. The RWQCB ESLs are considered to be conservative. Under most circumstances, and within the limitations described in the RWQCB ESL guidance document, the presence of a chemical in soil, soil gas or groundwater at concentrations below the corresponding ESL may be assumed to not pose a significant threat to human health and the environment. Additional evaluation may be necessary at sites where a chemical is present at concentrations above the corresponding ESL.

Sample analytical results are summarized on Table 1. PCE was detected in 3 or the 4 samples, at concentrations ranging from 4.28 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to $72 \mu\text{g}/\text{m}^3$. These results were below the current residential ESL of $240 \mu\text{g}/\text{m}^3$.

TCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride were not detected. No significant leak-check compounds were detected.

5.0 SUMMARY AND CONCLUSIONS

AEI performed a limited soil gas investigation at the subject property. The purpose of the investigation was to assess whether the adjacent release of dry-cleaning solvent had adversely impacted soil gas at the subject site and thus whether there was a current indication of potential vapor intrusion. Four (4) soil gas samples were collected and analyzed for PCE and related VOCs.

Although PCE was detected in three of the samples, the concentrations were below the referenced regulatory screening levels. Therefore, the results do not currently indicate a significant vapor intrusion potential to the onsite buildings.

This investigation is not expected to satisfy the requirements by ACEH of the adjacent site to characterize the extent of their release on the subject property and surrounding area and as such further soil, groundwater, and soil gas investigation may be required by ACEH on the subject site.

6.0 REPORT LIMITATIONS AND RELIANCE

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the subject property. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

Any conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document. These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work. No other warranty, either expressed or implied, has been made.

This investigation was prepared for the sole use and benefit of Rockwood Condominiums, LLC. All reports, both verbal and written, whether in draft or final, are for the benefit of Rockwood Condominiums, LLC. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. Either verbally or in writing, third parties

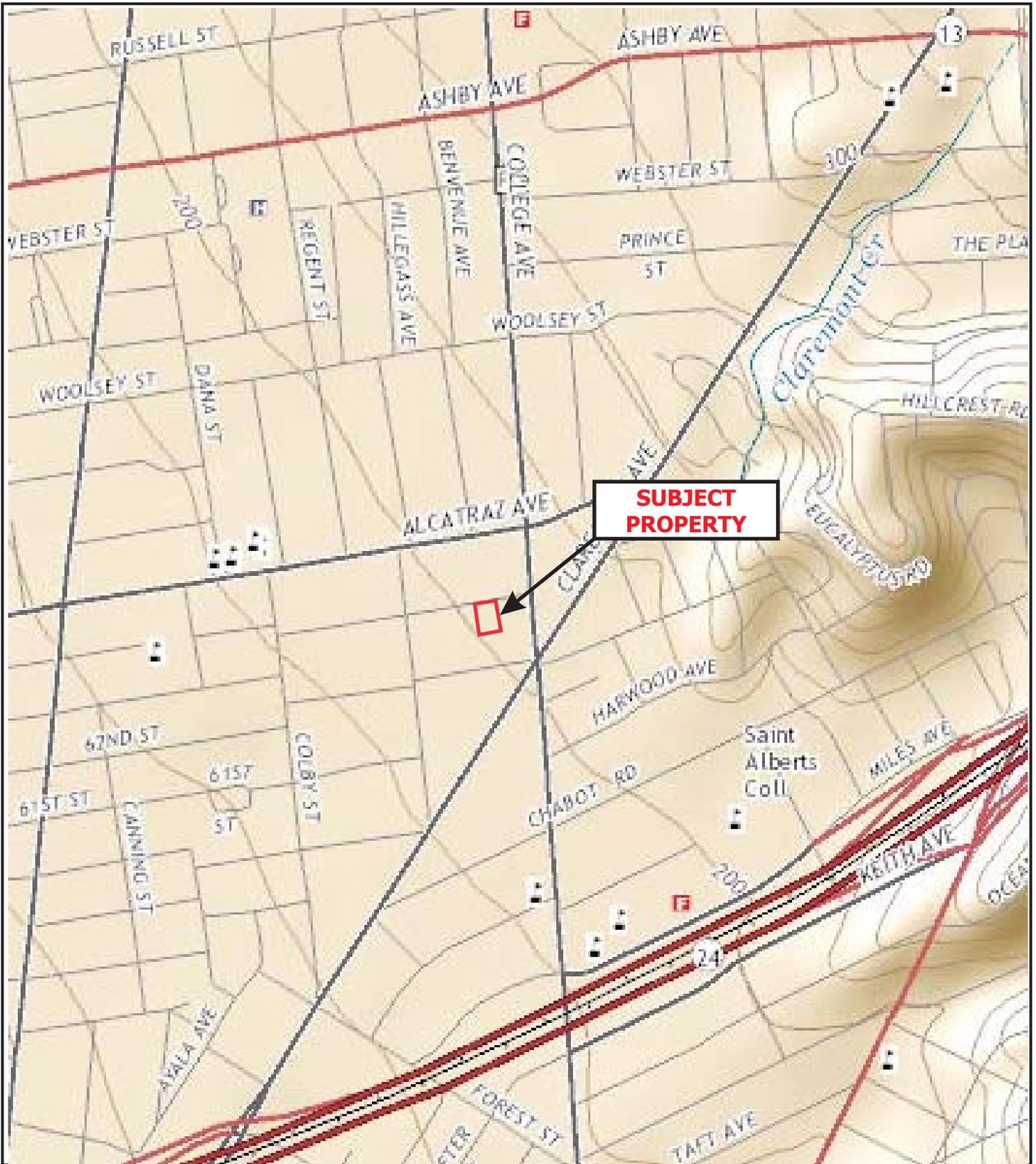
may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors or assigns. Reliance is provided in accordance with AEI's Proposal and Standard Terms & Conditions executed by Rockwood Condominiums, LLC. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

If there are any questions regarding our investigation, please do not hesitate to contact AEI at (925) 746-6000.

Sincerely,
AEI Consultants

A handwritten signature in black ink, appearing to read "Peter McIntyre", written in a cursive style.

Peter McIntyre, PG #7702
Executive Vice President



LEGEND

— Approximate Property Boundary



Map: OAKLAND EAST, CA
 Date: 2015
 Source: USGS

AEI Consultants

2500 Camino Diablo, Walnut Creek, California

SITE LOCATION MAP

321-323 63rd Street
 Oakland, CA

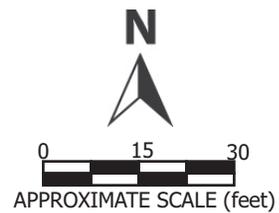
FIGURE 1

Project No. 371857



LEGEND

-  Approximate Property Boundary
-  Soil Vapor Boring



AEI Consultants
2500 Camino Diablo, Walnut Creek, California

SITE MAP

321-323 63rd Street
Oakland, CA

FIGURE 2
Project No. 371857

TABLE 1: SOIL GAS SAMPLE DATA SUMMARY
321 63rd Street, Oakland, California

Location ID	Date	Depth (feet bgs)	PCE (µg/m ³)	TCE (µg/m ³)	cis-1,2-DCE (µg/m ³)	trans-1,2-DCE (µg/m ³)	Vinyl Chloride (µg/m ³)	2-Propanol* (µg/m ³)	1,1-Difluoroethane* (µg/m ³)	Remaining VOCs (µg/m ³)
SV-1	5/2/2017	5.5	12.7	<2.14	<1.59	<1.59	<1.02	28.9	<1.08	<RL
SV-2	5/2/2017	5.5	72	<2.14	<1.59	<1.59	<1.02	<6.15	<1.08	<RL
SV-3	5/2/2017	5.5	4.28	<2.14	<1.59	<1.59	<1.02	6.39	1.34	<RL
SV-4	5/2/2017	5.5	<2.72	<2.14	<1.59	<1.59	<1.02	<6.15	<1.08	<RL
Comparison Values:										
ESL-VI:			240	240	4,200	42,000	5	N/A*	N/A*	Varies

Notes:

- µg/m³ micrograms per cubic meter
- <RL less than the laboratory reporting limit
- bgs below ground surface
- N/A not applicable
- PCE Tetrachloroethene
- TCE Trichloroethene
- cis-1,2-DCE cis-1,2-Dichloroethene
- trans-1,2-DCE trans-1,2-Dichloroethene
- Bold** Result exceeds a Comparison Value
- *** used as leak check compound

Comparison Values:

ESL - VI: Tier 1 ESL - Subslab/Soil Gas Vapor Intrusion: Tier 1 ESL;
from February 2016 ESL Workbook rev3, Prepared by the San Francisco Bay Regional Water Quality Control Board

AEI Consultants - CA

Sample Delivery Group: L906515

Samples Received: 05/03/2017

Project Number:

Description:

Report To: Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By:



Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



¹ Cp: Cover Page	1	
² Tc: Table of Contents	2	
³ Ss: Sample Summary	3	
⁴ Cn: Case Narrative	4	
⁵ Sr: Sample Results	5	
SV-1 L906515-01	5	
SV-2 L906515-02	6	
SV-3 L906515-03	7	
SV-4 L906515-04	8	
⁶ Qc: Quality Control Summary	9	
Volatile Organic Compounds (MS) by Method TO-15	9	
⁷ Gl: Glossary of Terms	10	
⁸ Al: Accreditations & Locations	11	
⁹ Sc: Chain of Custody	12	

SAMPLE SUMMARY



SV-1 L906515-01 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG976084	2	05/03/17 16:44	05/03/17 16:44	MBF

Collected by WBH
 Collected date/time 05/02/17 12:05
 Received date/time 05/03/17 08:45

¹ Cp

² Tc

³ Ss

SV-2 L906515-02 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG976084	2	05/03/17 17:25	05/03/17 17:25	MBF

Collected by WBH
 Collected date/time 05/02/17 11:55
 Received date/time 05/03/17 08:45

⁴ Cn

⁵ Sr

SV-3 L906515-03 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG976084	2	05/03/17 18:07	05/03/17 18:07	MBF

Collected by WBH
 Collected date/time 05/02/17 12:32
 Received date/time 05/03/17 08:45

⁶ Qc

⁷ Gl

SV-4 L906515-04 Air

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG976084	2	05/03/17 18:48	05/03/17 18:48	MBF

Collected by WBH
 Collected date/time 05/02/17 12:42
 Received date/time 05/03/17 08:45

⁸ Al

⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG976084
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG976084
2-Propanol	67-63-0	60.10	2.50	6.15	11.7	28.9		2	WG976084
Tetrachloroethylene	127-18-4	166	0.400	2.72	1.87	12.7		2	WG976084
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG976084
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND	<u>J3</u>	2	WG976084
1,1-Difluoroethane	75-37-6	66.05	0.400	1.08	ND	ND		2	WG976084
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.2				WG976084

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG976084
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG976084
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG976084
Tetrachloroethylene	127-18-4	166	0.400	2.72	10.6	72.0		2	WG976084
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG976084
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND	<u>J3</u>	2	WG976084
1,1-Difluoroethane	75-37-6	66.05	0.400	1.08	ND	ND		2	WG976084
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.9				WG976084

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG976084
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG976084
2-Propanol	67-63-0	60.10	2.50	6.15	2.60	6.39		2	WG976084
Tetrachloroethylene	127-18-4	166	0.400	2.72	0.631	4.28		2	WG976084
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG976084
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND	<u>J3</u>	2	WG976084
1,1-Difluoroethane	75-37-6	66.05	0.400	1.08	0.496	1.34		2	WG976084
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		96.5				WG976084

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG976084
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG976084
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG976084
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG976084
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	WG976084
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND	<u>J3</u>	2	WG976084
1,1-Difluoroethane	75-37-6	66.05	0.400	1.08	ND	ND		2	WG976084
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.6				WG976084

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3215536-3 05/03/17 08:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
2-Propanol	U		0.0882	1.25
Tetrachloroethylene	U		0.0497	0.200
Trichloroethylene	U		0.0545	0.200
Vinyl chloride	U		0.0457	0.200
1,1-Difluoroethane	U		0.0256	0.200
(S) 1,4-Bromofluorobenzene	95.4			60.0-140

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3215536-1 05/03/17 07:04 • (LCSD) R3215536-2 05/03/17 07:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Vinyl chloride	3.75	2.95	4.25	78.7	113	70.0-130		J3	36.0	25
2-Propanol	3.75	3.34	3.45	89.2	91.9	66.0-150			3.00	25
trans-1,2-Dichloroethene	3.75	3.60	3.59	96.0	95.7	70.0-130			0.310	25
cis-1,2-Dichloroethene	3.75	3.94	3.96	105	106	70.0-130			0.500	25
Trichloroethylene	3.75	4.03	4.10	107	109	70.0-130			1.78	25
Tetrachloroethylene	3.75	4.57	4.71	122	126	70.0-130			3.02	25
1,1-Difluoroethane	3.75	3.43	3.31	91.4	88.2	70.0-130			3.61	25
(S) 1,4-Bromofluorobenzene				95.8	99.4	60.0-140				

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

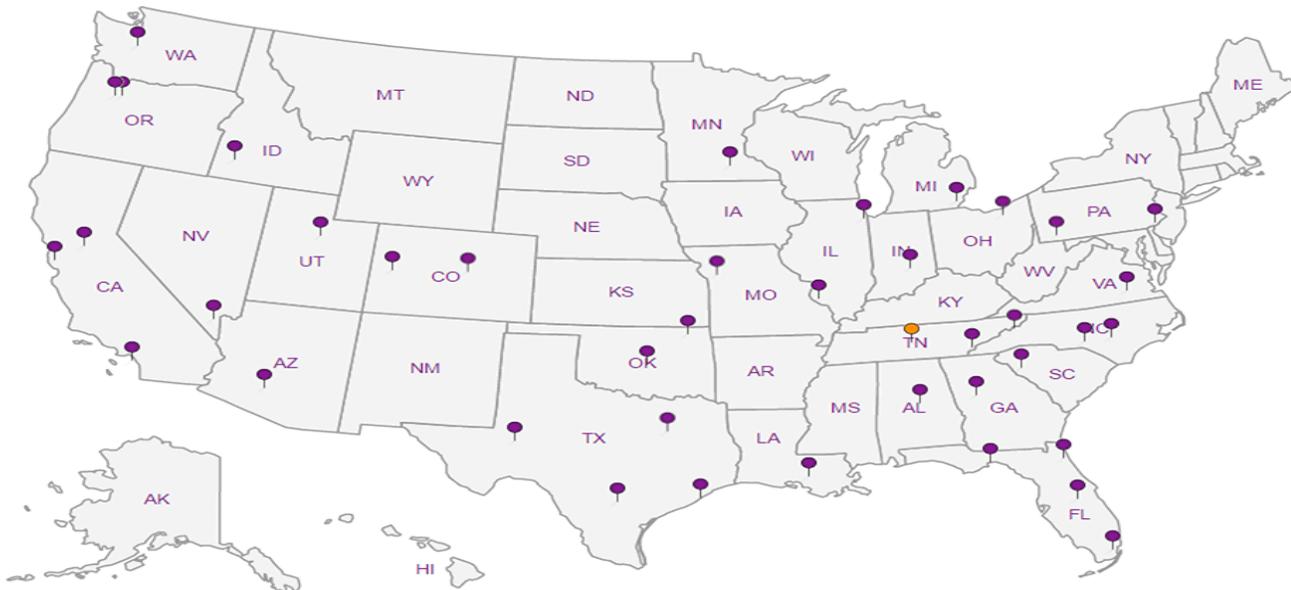
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Brian Ford

From: Jeremy Smith <jasmith@aeiconsultants.com>
Sent: Tuesday, May 02, 2017 5:26 PM
To: Brian Ford
Cc: Vincent Vancil
Subject: Samples Coming your Way - 4 Soil Vapor
Attachments: 51544805371_BB6DB21C-1A85-41CD-BC8B-5F3B3A1ECF74.jpg

Brad

The attached COC shows 4 samples being overnighted to you. They are at FedEx now. These are the 24 hr RUSH samples we need to have analyzed ASAP that I asked about last week. Also, please only report PCE / TCE / cis/trans 1,2-DCE and Vinyl Chloride. Also IPA and 1,1,-DFE should be reported as the leak check we need to have reported.

Thanks

Jeremy Smith
Senior Project Manager
AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597

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