MacArthur Boulevard Associates
c/o Jay-Phares Corporation
10700 MacArthur Blvd., Suite 200
Oakland, CA 94605-5260
510-562-9500 / 510-562-9505 Fax

September 20, 2016

Ms. Kit Soo
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Perjury Statement and Report Transmittal
Indoor Air Sampling Report
10700 MacArthur Blvd.
Oakland, California
AEI Project # 261829
Toxics Case No. RO0002580

Dear Ms. Soo:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me at (510) 562-9500, or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

MACARTHUR BOULEVARD ASSOCIATES
(a California limited partnership)

BY: JAY-PHARES CORPORATION
(a California corporation)
(its Management Agent)

John Jay, President

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

AEI Consultants
Environmental & Engineering Services
2500 Camino Diablo, Walnut Creek, CA 94597
Tel: 925.746.6000 Fax: 925.746.6099

September 20, 2016

Ms. Kit Soo
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: **Indoor Air Sampling Report**
10700 MacArthur Boulevard
Oakland, California 94605
AEI Project No. 261829
Toxics Case No. RO0002580

Dear Ms. Soo:

On behalf of MacArthur Boulevard Associates, owner of Foothill Square, AEI Consultants (AEI) has prepared this *Indoor Air Sampling Report* for the property located at 10700 MacArthur Boulevard in the City of Oakland, Alameda County, California ("the Site"). During a meeting with the Alameda County Health Care Services Agency (ACHCSA) on August 17, 2016, indoor air samples were requested by ACHCSA staff to assess indoor air quality in the former Anna's Linens tenant space. The former Anna's Linens tenant space is located adjacent to and extends into the location of the former Young's Cleaners and is encompassed within the ongoing vacuum extraction and vapor control. The indoor air sampling event was subsequently proposed in AEI's *Indoor Air Sampling Work Plan* dated August 17, 2016, and approved with comments in the ACHCSA electronic mail dated August 18, 2016.

The former Anna's Linens property is currently not occupied, and during the meeting it was discussed that it would be prudent to collect indoor air samples during system operation to assess indoor air quality prior to a new tenant occupying the tenant space. Below are the details for the indoor air sampling event.

INDOOR AIR SAMPLE COLLECTION

Two indoor air samples and one ambient air sample were collected to assess the current indoor air quality of the former Anna's. The footprint of the Anna's is being converted into a new tenant suite consisting of a large single open rectangular room by the time of sampling, as shown on the attached site plan. Therefore, the two indoor air samples were taken at locations evenly distributed within this space. The indoor air samples were collected in the breathing zone which is approximately 3 to 5 feet above slab surface. For security reasons, the outdoor ambient sample was placed on top of the roof of the building at a height of approximately 25 feet. The ambient sample was located in the up-wind direction from the soil vapor extraction (SVE) effluent which was operating at the time of sampling.

Prior to sampling, the initial vacuum for each sample canister was measured and recorded. The samples were collected using Summa™ canisters equipped with a flow controller calibrated to collect samples over a 24-hour period. Sample equipment was provided by McCampbell Analytical, Inc. (McCampbell) of Pittsburg, California (DOHS Certification Number 1644). Sampling was initiated on August 22, 2016 and following the 24-hour sample collection, on August 23, 2016, sample canisters were sealed and submitted for analysis of PCE, trichloroethene (TCE), *cis* and *trans*-1,2-dichloroethene, and vinyl chloride using USEPA Method TO-15.

During the sampling event, the tenant space was relatively vacant with some lumber, tables, and miscellaneous items observed. A can of spray paint was observed; however, CVOCs did not appear to be part of the contents of the spray paint. Based on this inventory list, onsite materials are not expected to contribute to false positive CVOC results. The HVAC system was operating and the doors were closed during the sampling event.

INDOOR AIR SAMPLE RESULTS

Tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the two indoor air samples at a concentration of 3.4 micrograms per cubic meter (µg/m^3) and 4.1 µg/m^3 for PCE and 0.23 µg/m^3 and 0.21 µg/m^3 for TCE. Cis and trans-1,2 dichloroethene and vinyl chloride were not detected above the laboratory reporting limit in the indoor air samples. The ambient air sample did not contain concentrations of the chemicals of concern above the laboratory limit. Analytical results are summarized on Table 1 and a copy of the laboratory report is attached.

All laboratory reporting limits were below the respective environmental screening level (ESL)[1].

CONCLUSIONS

For the purpose of providing context to the data obtained during this investigation, analytical results have been compared to available regulatory screening levels. The Environmental Screening Levels (ESLs) which were developed by the Regional Water Quality Control Board are based on long-term exposures, while the short term exposure response value for TCE is established by the California Department of Toxic Substances Control (DTSC) at 7 µg/m^3[,2]. Per the ESL user guide, "*the presence of a chemical at concentrations in excess of an ESL does not necessarily indicate adverse effects on human health or the environment, rather that additional evaluation is warranted".*

PCE was detected slightly above the commercial ESL for indoor air of 2.1 µg/m^3. TCE was not detected above the ESL nor the short term exposure response number established by the EPA of 7 µg/m^3. Based on these findings, AEI recommends the continued operation of the SVE system in an effort to further reduce CVOCs in the subsurface. Additional indoor air sampling would be appropriate to confirm the effectiveness of the SVE system.

[1] User's Guide: Derivation and Application of Environmental Screening Levels, Interim Final 2016.
[2] DTSC Human Health Risk Assessment Note Number 5; August 23, 2014.

REPORT LIMITATIONS AND SIGNATURES

This report has been prepared by AEI Consultants relating to the environmental release at the property located at 10700 MacArthur Boulevard, Oakland, Alameda County, California. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

Please contact either of the undersigned at (925) 746-6000 if you have any questions or need any additional information.

Sincerely,

AEI Consultants

Jeremy Smith
Senior Project Manager

Peter McIntyre, PG
Executive Vice President

REGISTERED GEOLOGIST
PETER J. MCINTYRE
Exp. 5/31/18
No. 7102
STATE OF CALIFORNIA

Distribution :
Jay-Phares Corporation, Attn; John Jay, 10700 MacAurther Blvd., Oakland, California 94605
Geotracker electronic upload

Attachments: Figure 1: Site Plan
Table 1: Indoor Air Sample Analytical Details
Laboratory Analytical Report

106 th AVENUE

ARCO Station

GAS STATION

Residential

CONC. RETAINING WALL

RETAINING WALL

ELEC. SHED

LOADING DOCK

Ross

MACARTHUR BOULEVARD

MYERS STREET

SIDEWALK

AC PAVEMENT

PLANTER

Hawaian Arts

Beauty Supply

Rainbow Apparel

Hall, Elevator, & Upstairs Offices

Bingo

Coin Laundry

Cell Phone

Chinese Restaurant

Dry Cleaner

Wells Fargo

HP-4 HP-5 HP-9 HP-0 HP-1 HP-7

MW-5 MW-8 MW-4 MW-2 MW-3 MW-6 MW-7

RW-1

WGR-MW2 WGR-MW3

VB-14 VB-15 VB-13 VB-2 VB-4 VB-1 VB-17 VB-16 VB-18 VB-21 VB-29 VB-3 VB-24 VB-25 VB-28 VB-23 VB-5 VB-11 VB-19 VB-22 VB-20 VB-6 VB-7 VB-8 VB-9 VB-10 VB-27 VB-26 VB-12

EB-1 EB-2 EB-3 EB-4 EB-5 EB-15

B-1 B-2 B-3 B-4 B-5 B-6 B-7

AMW-1 AMW-2 AMW-3 AMW-4 AMW-5 AMW-6 AMW-6R AMW-7 AMW-8 AMW-9

SB-1 SB-2

IA-1 IA-2

AMB-1 (roof)

SS/VM-1 SS/VM-2 SS/VM-3 SS/VM-4 SS/VM-5 SS/VM-7 SS/VM-8 SS/VM-9 SS/VM-10

0 60 90 120

KEY

EB-1 Soil Boring - Kaldveer 1988

B-1 Soil Boring - Augeas 1994

HP-8 CPT Boring/HydroPunch Sample - PES 1997

MW4 Groundwater Monitoring Well

MW4 Abandoned Groundwater Monitoring Well

Soil Vapor Sample

Soil Boring - AEI 2006

Permanent Vapor Probes

Air Sample Location

Former Dry Cleaner Location

Proposed Shoe Palace

Former Anna's Linens Location

Drafted 6/30/05 - RFF on Dirk Slooten base
Revised 09/16 by J.SMITH

AEI CONSULTANTS

2500 CAMINO DIABLO, WALNUT CREEK, CA

SITE PLAN

10700 MACARTHUR BLVD.
OAKLAND, CALIFORNIA

FIGURE 1
PROJECT NO. 261829

Table 1:
Indoor Air Sample Analytical Data
10700 MacArthur Blvd., Oakland, California

Sample ID	Date	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
IA-1	8/23/2016	3.4	0.23	<0.40	<0.40	<0.013
IA-2	8/23/2016	4.1	0.21	<0.40	<0.40	<0.013
AMB-1	8/23/2016	<0.069	<0.027	<0.40	<0.40	<0.013
ESL	--	2.1	3.0	35	350	0.16
DTSC Accelerated / Urgent Response	--	--	7 21	--	--	--

Notes:
PCE = Tetrachloroethene
TCE = Trichloroethene
c-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
µg/m^3 = micrograms per cubic meter
ESL = Environmental Screening Level for commercial land use; RWQCB February 2016 (Rev.3)
DTSC = Region 9 Interim Action Levels for TCE per DTSC HERO HHRA Note Number 5 dated August 23, 2014

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 1608A45

Report Created for: AEI Consultants

2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jeremy Smith
Project P.O.: 115407
Project Name: 261829; Foothill Square

Project Received: 08/23/2016

Analytical Report reviewed & approved for release on 08/30/2016 by:

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 261829; Foothill Square
WorkOrder: 1608A45

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

S	Surrogate spike recovery outside accepted recovery limits
c2	surrogate recovery outside of the control limits due to matrix interference.

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Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 261829; Foothill Square
WorkOrder: 1608A45

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F3	the surrogate standard recovery and/or RPD is outside of acceptance limits.

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Case Narrative

Client: AEI Consultants
Project: 261829; Foothill Square

Work Order: 1608A45
August 30, 2016

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1608A45
Date Received:	8/23/16 13:50	**Extraction Method:**	TO15
Date Prepared:	8/26/16	**Analytical Method:**	TO15
Project:	261829; Foothill Square	**Unit:**	µL/L

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
IA-1	**1608A45-001A**	**Indoor Air**	**08/23/2016 10:42**	**GC24**	**125919**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.97	**12.97**	**AK**

Analytes	Result	RL	DF	Date Analyzed
cis-1,2-Dichloroethene	ND	0.00010	1	08/26/2016 17:11
trans-1,2-Dichloroethene	ND	0.00010	1	08/26/2016 17:11
Tetrachloroethene	**0.00049**	0.000010	1	08/26/2016 17:11
Trichloroethene	**0.000041**	0.0000050	1	08/26/2016 17:11
Vinyl Chloride	ND	0.0000050	1	08/26/2016 17:11

Surrogates	REC (%)	Limits	
1,2-DCA-d4	127	70-130	08/26/2016 17:11
Toluene-d8	109	70-130	08/26/2016 17:11
4-BFB	103	70-130	08/26/2016 17:11

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
IA-2	**1608A45-002A**	**Indoor Air**	**08/23/2016 10:46**	**GC24**	**125919**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.62	**13.62**	**AK**

Analytes	Result	RL	DF	Date Analyzed
cis-1,2-Dichloroethene	ND	0.00010	1	08/26/2016 18:06
trans-1,2-Dichloroethene	ND	0.00010	1	08/26/2016 18:06
Tetrachloroethene	**0.00060**	0.000010	1	08/26/2016 18:06
Trichloroethene	**0.000038**	0.0000050	1	08/26/2016 18:06
Vinyl Chloride	ND	0.0000050	1	08/26/2016 18:06

Surrogates	REC (%)	Qualifiers	Limits	
1,2-DCA-d4	100		70-130	08/26/2016 18:06
Toluene-d8	142	S	70-130	08/26/2016 18:06
4-BFB	134	S	70-130	08/26/2016 18:06

Analytical Comments: c2

(Cont.)

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1608A45
Date Received:	8/23/16 13:50	**Extraction Method:**	TO15
Date Prepared:	8/26/16	**Analytical Method:**	TO15
Project:	261829; Foothill Square	**Unit:**	µL/L

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMB-1	**1608A45-003A**	**Indoor Air**	**08/23/2016 10:57**	**GC24**	**125919**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.57	**13.57**	**AK**

Analytes	Result	RL	DF	Date Analyzed
cis-1,2-Dichloroethene	ND	0.00010	1	08/26/2016 19:02
trans-1,2-Dichloroethene	ND	0.00010	1	08/26/2016 19:02
Tetrachloroethene	ND	0.000010	1	08/26/2016 19:02
Trichloroethene	ND	0.0000050	1	08/26/2016 19:02
Vinyl Chloride	ND	0.0000050	1	08/26/2016 19:02

Surrogates	REC (%)	Limits	
1,2-DCA-d4	99	70-130	08/26/2016 19:02
Toluene-d8	109	70-130	08/26/2016 19:02
4-BFB	101	70-130	08/26/2016 19:02

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Analytical Report

Client: AEI Consultants
Date Received: 8/23/16 13:50
Date Prepared: 8/26/16
Project: 261829; Foothill Square

WorkOrder: 1608A45
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
IA-1	1608A45-001A	Indoor Air	08/23/2016 10:42	GC24	125919

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.97	12.97	AK

Analytes	Result	RL	DF	Date Analyzed
cis-1,2-Dichloroethene	ND	0.40	1	08/26/2016 17:11
trans-1,2-Dichloroethene	ND	0.40	1	08/26/2016 17:11
Tetrachloroethene	**3.4**	0.069	1	08/26/2016 17:11
Trichloroethene	**0.23**	0.027	1	08/26/2016 17:11
Vinyl Chloride	ND	0.013	1	08/26/2016 17:11

Surrogates	REC (%)	Limits	
1,2-DCA-d4	127	70-130	08/26/2016 17:11
Toluene-d8	109	70-130	08/26/2016 17:11
4-BFB	103	70-130	08/26/2016 17:11

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
IA-2	1608A45-002A	Indoor Air	08/23/2016 10:46	GC24	125919

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.62	13.62	AK

Analytes	Result	RL	DF	Date Analyzed
cis-1,2-Dichloroethene	ND	0.40	1	08/26/2016 18:06
trans-1,2-Dichloroethene	ND	0.40	1	08/26/2016 18:06
Tetrachloroethene	**4.1**	0.069	1	08/26/2016 18:06
Trichloroethene	**0.21**	0.027	1	08/26/2016 18:06
Vinyl Chloride	ND	0.013	1	08/26/2016 18:06

Surrogates	REC (%)	Qualifiers	Limits	
1,2-DCA-d4	100		70-130	08/26/2016 18:06
Toluene-d8	142	S	70-130	08/26/2016 18:06
4-BFB	134	S	70-130	08/26/2016 18:06

Analytical Comments: c2

(Cont.)

Angela Rydelius, Lab Manager

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Analytical Report

Client:	AEI Consultants	**WorkOrder:**	1608A45
Date Received:	8/23/16 13:50	**Extraction Method:**	TO15
Date Prepared:	8/26/16	**Analytical Method:**	TO15
Project:	261829; Foothill Square	**Unit:**	µg/m³

Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
AMB-1	**1608A45-003A**	**Indoor Air**	**08/23/2016 10:57**	**GC24**	**125919**

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
13.57	**13.57**	**AK**

Analytes	Result	RL	DF	Date Analyzed
cis-1,2-Dichloroethene	ND	0.40	1	08/26/2016 19:02
trans-1,2-Dichloroethene	ND	0.40	1	08/26/2016 19:02
Tetrachloroethene	ND	0.069	1	08/26/2016 19:02
Trichloroethene	ND	0.027	1	08/26/2016 19:02
Vinyl Chloride	ND	0.013	1	08/26/2016 19:02

Surrogates	REC (%)	Limits	
1,2-DCA-d4	99	70-130	08/26/2016 19:02
Toluene-d8	109	70-130	08/26/2016 19:02
4-BFB	101	70-130	08/26/2016 19:02

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1608A45
Date Prepared:	8/25/16	**BatchID:**	125919
Date Analyzed:	8/25/16	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	Indoor Air	**Unit:**	µg/m³
Project:	261829; Foothill Square	**Sample ID:**	MB/LCS-125919

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	6.64	6.0	12	-	55, F2	60-140
Acrolein	ND	6.94	0.58	11.65	-	60	60-140
Acrylonitrile	ND	7.89	0.22	11	-	72	60-140
tert-Amyl methyl ether (TAME)	ND	19.3	0.42	21	-	92	60-140
Benzene	ND	12.7	0.032	16	-	80	60-140
Benzyl chloride	ND	38.1	0.53	26.5	-	144, F2	60-140
Bromodichloromethane	ND	30.6	0.0070	35	-	87	60-140
Bromoform	ND	53.5	1.1	52.5	-	102	60-140
Bromomethane	ND	16.2	0.39	19.5	-	83	60-140
1,3-Butadiene	ND	8.17	0.22	11	-	74	60-140
2-Butanone (MEK)	ND	13.9	7.5	15	-	93	60-140
t-Butyl alcohol (TBA)	ND	10.9	6.2	15.5	-	70	60-140
Carbon Disulfide	ND	12.3	0.32	16	-	77	60-140
Carbon Tetrachloride	ND	12.9	0.0064	32	-	40, F2	60-140
Chlorobenzene	ND	21.9	0.47	23.5	-	93	60-140
Chloroethane	ND	8.98	0.27	13.5	-	67	60-140
Chloroform	ND	19.9	0.025	24.5	-	81	60-140
Chloromethane	ND	6.48	0.21	10.5	-	62	60-140
Cyclohexane	ND	15.5	1.8	17.5	-	88	60-140
Dibromochloromethane	ND	48.4	0.87	43.5	-	111	60-140
1,2-Dibromo-3-chloropropane	ND	66.8	0.050	49	-	136	60-140
1,2-Dibromoethane (EDB)	ND	37.0	0.0078	39	-	95	60-140
1,2-Dichlorobenzene	ND	39.9	0.61	30.5	-	131	60-140
1,3-Dichlorobenzene	ND	38.8	0.61	30.5	-	127	60-140
1,4-Dichlorobenzene	ND	39.5	0.030	30.5	-	130	60-140
Dichlorodifluoromethane	ND	17.1	0.50	25	-	69	60-140
1,1-Dichloroethane	ND	18.2	0.41	20.5	-	89	60-140
1,2-Dichloroethane (1,2-DCA)	ND	17.1	0.0041	20.5	-	83	60-140
1,1-Dichloroethene	ND	16.4	0.10	20	-	82	60-140
cis-1,2-Dichloroethene	ND	17.6	0.40	20	-	88	60-140
trans-1,2-Dichloroethene	ND	16.4	0.40	20	-	82	60-140
1,2-Dichloropropane	ND	19.5	0.0047	23.5	-	83	60-140
cis-1,3-Dichloropropene	ND	34.2	0.12	23	-	149, F2	60-140
trans-1,3-Dichloropropene	ND	29.2	0.12	23	-	127	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	25.0	0.71	35.5	-	70	60-140
Diisopropyl ether (DIPE)	ND	18.4	0.42	21	-	88	60-140
1,4-Dioxane	ND	18.6	0.018	18.5	-	101	60-140

(Cont.)

QA/QC Officer

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	AEI Consultants	**WorkOrder:**	1608A45
Date Prepared:	8/25/16	**BatchID:**	125919
Date Analyzed:	8/25/16	**Extraction Method:**	TO15
Instrument:	GC24	**Analytical Method:**	TO15
Matrix:	Indoor Air	**Unit:**	µg/m³
Project:	261829; Foothill Square	**Sample ID:**	MB/LCS-125919

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethyl acetate	ND	18.0	0.92	18.5	-	97	60-140
Ethyl tert-butyl ether (ETBE)	ND	19.8	0.42	21	-	94	60-140
Ethylbenzene	ND	21.7	0.44	22	-	99	60-140
4-Ethyltoluene	ND	32.9	0.50	25	-	132	60-140
Freon 113	ND	26.9	0.78	39	-	69	60-140
Heptane	ND	17.2	2.1	21	-	82	60-140
Hexachlorobutadiene	ND	61.5	1.1	54	-	114	60-140
Hexane	ND	15.0	1.8	18	-	83	60-140
2-Hexanone	ND	32.8	0.42	21	-	156, F2	60-140
4-Methyl-2-pentanone (MIBK)	ND	27.9	0.42	21	-	133	60-140
Methyl-t-butyl ether (MTBE)	ND	18.4	0.37	18.5	-	99	60-140
Methylene chloride	ND	13.3	0.88	17.5	-	76	60-140
Methyl methacrylate	ND	19.1	0.42	20.8	-	92	60-140
Naphthalene	ND	60.7	0.050	53	-	114	60-140
Propene	ND	ND	8.8	8.5	-	68	60-140
Styrene	ND	21.2	0.43	21.5	-	99	60-140
1,1,1,2-Tetrachloroethane	ND	30.7	0.0070	35	-	88	60-140
1,1,2,2-Tetrachloroethane	ND	32.4	0.0070	35	-	93	60-140
Tetrachloroethene	ND	35.1	0.069	34.5	-	102	60-140
Tetrahydrofuran	ND	13.1	0.60	15	-	87	60-140
Toluene	ND	22.8	0.38	19	-	120	60-140
1,2,4-Trichlorobenzene	ND	44.2	0.75	37.5	-	118	60-140
1,1,1-Trichloroethane	ND	28.4	0.55	27.5	-	103	60-140
1,1,2-Trichloroethane	ND	32.9	0.0055	27.5	-	120	60-140
Trichloroethene	ND	22.4	0.027	27.5	-	81	60-140
Trichlorofluoromethane	ND	20.0	0.57	28.5	-	70	60-140
1,2,4-Trimethylbenzene	ND	32.6	0.50	25	-	130	60-140
1,3,5-Trimethylbenzene	ND	31.8	0.50	25	-	127	60-140
Vinyl Acetate	ND	21.3	1.8	18	-	118	60-140
Vinyl Chloride	ND	9.05	0.013	13	-	70	60-140
Xylenes, Total	ND	65.7	1.3	66	-	100	60-140
Surrogate Recovery							
1,2-DCA-d4	109	100		100	109	100	70-130
Toluene-d8	108	135		100	109	135, F3	70-130
4-BFB	102	107		100	102	107	70-130

QA/QC Officer

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1608A45 **ClientCode: AEL**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Jeremy Smith
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jasmith@aeiconsultants.com
cc/3rd Party:
PO: 115407
ProjectNo: 261829; Foothill Square

Bill to:
Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: **08/23/2016**
Date Logged: **08/23/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1608A45-001	IA-1	Indoor Air	8/23/2016 10:42	☐	A	A	A									
1608A45-002	IA-2	Indoor Air	8/23/2016 10:46	☐		A	A									
1608A45-003	AMB-1	Indoor Air	8/23/2016 10:57	☐		A	A									

Test Legend:

1	PREDF REPORT	2	TO15_SCAN-SIM_Indoor(ug/m3)	3	TO15_SCAN-SIM_Indoor(UL/L)	4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

The following SampIDs: 001A, 002A, 003A contain testgroup.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS
Project: 261829; Foothill Square
Comments:

QC Level: LEVEL 2
Client Contact: Jeremy Smith
Contact's Email: jasmith@aeiconsultants.com

Work Order: 1608A45
Date Logged: 8/23/2016

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1608A45-001A	IA-1	Indoor Air	TO15 for Indoor Air (Scan-SIM)	1	6L Summa	☐	8/23/2016 10:42	5 days		☐	
1608A45-002A	IA-2	Indoor Air	TO15 for Indoor Air (Scan-SIM)	1	6L Summa	☐	8/23/2016 10:46	5 days		☐	
1608A45-003A	AMB-1	Indoor Air	TO15 for Indoor Air (Scan-SIM)	1	6L Summa	☐	8/23/2016 10:57	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1608A45

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒

GeoTracker EDF ☒ PDF ☐ EDD ☐ EQuIS ☐ 10 DAY ☐

UST CLEAN UP FUND ☐ ; Claim #

Report To: AEI / Jeremy Smith **PO No.:** 115407

Company: AEI Consultants

2500 Camino Diablo, Walnut Creek, CA

E-Mail: jasmith@aeiconsultants.com

Tele: (925) 746-6000 **Fax:** (925) 746-6099

Project #: 261829 **Project Name:** Foothill Square

Project Location: 10700 MacArthur Blvd., Oakland, CA

Sampler Signature:

Analysis Requested

Helium Shroud SN#

Other:

Notes: Leak check default is IPA.

Only report PCE, TCE, cis/trans 1,2-DCE, VC

Field Sample ID (Location)	Collection Date	Collection Time	Canister SN#	Sampler Kit SN#	HVOCs TO-15 (ug/m3) – See Notes	8010 by TO-15 (ug/m3)	TPH(g) (ug/m3)	LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas: CO2, Methane, Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L	Fixed Gas: O2, N2 (please circle) uL/L	Fixed Gas: Propane uL/L	Helium Leak Check (%)	Leak Check (IPA, Norflorane, 1,1-difluroethane) ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other:	Matrix: Soilgas	Matrix: Indoor Air	Canister Pressure/ Vacuum: Initial	Canister Pressure/ Vacuum: Final
IA-1	8/23/16	1042	1942	901	X												X	29.0	2.5
IA-2	8/23/16	1046	655	932	X												X	29.0	2.0
AMB-1	8/23/16	1057	597	933	X												X	29.0	1.5

Relinquished By:	Date:	Time:	Received By:
	8/23/16	1350	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Temp (°C) : _____ Work Order #: _____

Condition: _____

Custody Seals Intact?: Yes _____ No _____ None _____

Shipped Via: _____

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Sample Receipt Checklist

Client Name:	**AEI Consultants**	Date and Time Received:	**8/23/2016 13:50**
Project Name:	**261829; Foothill Square**	Date Logged:	**8/23/2016**
WorkOrder №:	**1608A45** Matrix: Indoor Air	Received by:	Maria Venegas
Carrier:	Client Drop-In	Logged by:	Maria Venegas

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☐	No ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☐	No ☑	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments: