



AEI Consultants

Environmental & Engineering Services

Attachment 10
1 of 60

August 19, 2016

SHALLOW SOIL INVESTIGATION

Property Identification:

838 Azure Street and 842 Sunnyvale / Saratoga Road
Sunnyvale, California 94087

AEI Project No. 355430

Prepared for:

Xin Lu
10397 Amistad Court
Santa Clara, CA 95014

Prepared by:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597

Environmental &
Engineering Due
Diligence

Site Investigation &
Remediation

Energy Performance
& Benchmarking

Industrial Hygiene

Construction
Consulting

Construction,
Site Stabilization &
Stormwater Services

Zoning Analysis
Reports & ALTA
Surveys

National Presence

Regional Focus

Local Solutions

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August 19, 2016

Ms. Xin Lu
10397 Amistad Court
Cupertino, California 95014

Re: Shallow Soil Investigation - Historical Agricultural Use
838 Azure Street and 842 Sunnyvale / Saratoga Road
Sunnyvale, California
AEI Project No. 355430

Dear Ms. Lu:

AEI Consultants (AEI) is pleased to provide this report which describes the activities and results of the shallow soil investigation performed at 838 Azure Street and 842 Sunnyvale / Saratoga Road in Sunnyvale, California ("the Site"). The investigation was performed to assess whether shallow soils at the Site were impacted with organochlorine pesticides (OCPs) that may have been applied when the Site was used for orchards. This investigation was completed in general accordance with the authorized scope of services outlined in our authorized proposal dated June 21, 2016 and revised on July 27, 2016 (AEI Proposal Numbers 47444 and 47867 Revision 1). This report documents two phases of site investigation, the first conducted to assess whether or not OCPs and arsenic were present and the second to further assess certain OCPs identified. The Site description, background, scope of work, findings, conclusions, and recommendations are presented in the following sections.

1.0 SITE DESCRIPTION

The Site is located west of Azure Street and east of Sunnyvale/Saratoga Road in a residential community and comprises approximately 14,655 square feet. The Site is improved with two single-story residential dwellings, a shed, and landscaped yard. The Site location and vicinity are shown on Figure 1. Figure 2 presents the Site plan. AEI understands that the property is undergoing planning for a project that will involve razing the existing structures and constructing a new residential building(s).

Based upon topographic map interpretation, the direction of groundwater flow beneath the Site is inferred to be to the northeast. Based on groundwater monitoring data for a nearby closed site at 1040 Sunnyvale/Saratoga Road (located approximately 0.25 mile south of the Site) obtained from the online GeoTracker database, groundwater is reported to be present in the vicinity at a depth of between 60 to 100 feet below ground surface (bgs) with a flow direction to the northeast.

Shallow Soil Investigation

838 Azure Street and 842 Sunnyvale / Saratoga Road,
Sunnyvale, California

2.0 BACKGROUND

A Phase I Environmental Site Assessment (ESA) was performed by AEI as detailed in a report dated March 25, 2016 (AEI Project Number 355430). The Phase I ESA identified that the Site was historically used for agricultural purposes, including an orchard. Based on the former agricultural use, the potential existed that agricultural chemicals including OCPs that can be persistent in soils. AEI understands that the Site is slated for residential redevelopment. Based on the historical use and planned development of the site, the City of Sunnyvale requested soil sampling of the Site based on the historical agricultural use as part of the approval process.

3.0 INVESTIGATION EFFORTS

3.1 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.

3.2 Soil Sample Collection

On July 8 and August 3, 2016, shallow soil sampling was conducted at ten (10) locations (SB-1, SB-1R, and SB-2 through SB-9) at the Site. The locations of the borings are shown on Figure 2. The scope of the investigation was based in part on the California Department of Toxic Substances Control (DTSC) *Interim Guidance for Sampling Agricultural Properties (Third Edition)*, dated August 7, 2008.

Soil samples were collected using a hand-auger drilling system. At each location, soil samples were collected at depth intervals of 0.5 to 1.0 foot (below vegetation, roots or other extraneous material) and approximately 2.0 to 2.5 feet. Deeper soil samples were collected from borings SB-1R and SB-4 through SB-9 from a depth interval of 4.5 to 5 feet bgs. The soil samples were hand-driven into 2-inch by 6-inch stainless steel liners using an AMS, Inc. slide-hammer. The soil samples were sealed with Teflon tape and plastic caps, labeled, and placed in a cooler with ice to await transport to the laboratory.

The borings were continuously sampled throughout their entire depths for the purposes of lithologic logging and soil sample collection. Upon retrieval of the hand-auger, recovered soil samples were visually examined for soil classification and described on soil boring logs in general accordance with the Unified Soil Classification System (USCS). The completed soil boring logs are included as Appendix A.

3.3 Laboratory Analyses

The soil samples were transferred under chain-of-custody documentation to McCampbell Analytical, Inc. of Pittsburg, California. Each soil sample was analyzed for OCPs using US EPA Testing Method 8081A. Six soils samples were analyzed for arsenic using US EPA Testing Method 6020.

Shallow Soil Investigation

838 Azure Street and 842 Sunnyvale / Saratoga Road,
Sunnyvale, California

3.4 Investigation Derived Wastes

Following completion of sample collection, the borings were backfilled with soil cuttings and compacted by hand.

4.0 FINDINGS

4.1 Subsurface Conditions

Beneath grass and top soil, soils encountered in the borings generally consisted of loose silty or clayey sands extending to a depth of approximately 5 foot bgs. No groundwater was encountered in any of the borings during the investigation.

4.2 Soil Sample Analytical Results

Table 1 presents a summary of the soil sample analytical results. To assess whether the concentrations of OCPs observed present a potential unacceptable risk to human health, the results were compared to the Environmental Screening Levels (ESLs) developed by the California Regional Water Quality Control Board, San Francisco Bay Region (February 2016) for residential direct contact. The results can be summarized as follows.

- Dieldrin was detected in 10 of the 13 soil samples collected and analyzed. Six soils samples yielded dieldrin at concentrations above the ESL of 0.038 milligrams per kilogram (mg/kg). Dieldrin was observed at a maximum concentration of 2.5 mg/kg. Based upon deeper soil samples collected, dieldrin concentrations generally decrease with depth.
- Chlordane species were detected in 6 of the 13 soil samples collected and analyzed, observed at a maximum concentration of 3.9 mg/kg. Two soil samples yielded chlordane species at concentrations above the ESL of 0.48 mg/kg, SB-6 and SB-7.
- Other OCPs including, p,p-dichlorodiphenyldichloroethane (p,p-DDD), p,p-dichlorodiphenyldichloroethene (p,p-DDE), p,p-dichlorodiphenyldichloroethene (p,p-DDT), endrin, and heptachlor epoxide were detected in select soil samples as shown on Table 1, each at concentrations below their respective ESLs.
- Arsenic was detected in each of the six samples at concentrations between 5.0 and 9.8 mg/kg, which are within naturally-occurring background conditions for metals in California soils¹. The upper estimate for background arsenic is 11 mg/kg. Although these concentrations exceed the ESL for arsenic, they likely represent background/naturally occurring concentrations and are not related to former agricultural uses of the property.

¹ San Francisco State University, Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, December 2011

Shallow Soil Investigation

838 Azure Street and 842 Sunnyvale / Saratoga Road,
Sunnyvale, California

5.0 SUMMARY AND CONCLUSIONS

AEI performed shallow soil investigation at the Site. The purpose of the investigation was to assess whether OCPs and arsenic potentially used at the Site related to historical agricultural uses have impacted the Site. Analytical results identified the presence of dieldrin, technical chlordane, and a/g-chlordane at concentrations above the residential shallow soil direct exposure ESL in soil samples collected from borings SB-1, SB-4, and SB-6 through SB-8. None of the other OCP detections exceeded applicable residential shallow soil direct exposure ESLs. Arsenic was detected in samples at concentrations consistent with expected naturally-occurring conditions.

As part of the redevelopment activities at the Site, dieldrin and pesticide impacted soils should be delineated to appropriate residential ESLs and removed from the Site for proper off-site disposal. A Soils Management Plan may be used to communicate the presence of OCPs and arsenic to contractors at the Site and outline how the dieldrin impacted soils should be characterized, removed from the Site, documented, and for proper disposal options.

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 Site. 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 Chloe Lu. All reports, both verbal and written, whether in draft or final, are for the benefit of Chloe Lu. 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 Chloe Lu. 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.

Shallow Soil Investigation

838 Azure Street and 842 Sunnyvale / Saratoga Road,
Sunnyvale, California

If there are any questions regarding our investigation, please do not hesitate to contact AEI at (408) 559-7600.

Sincerely,
AEI Consultants



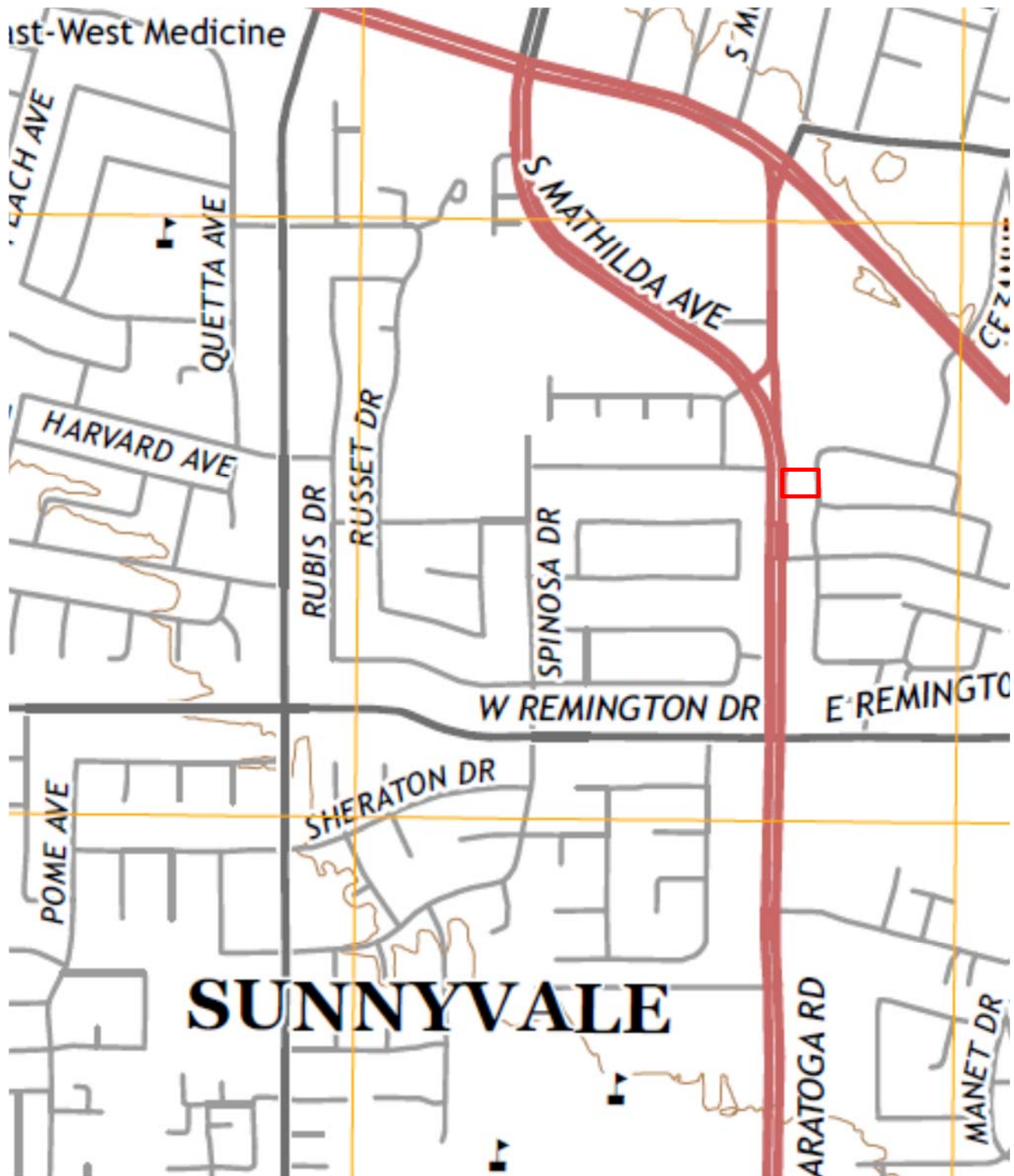
Adrian M. Angel, GIT
Project Geologist



Peter J. McIntyre, PG (#7702)
Executive Vice President
Principal Geologist



FIGURES



Legend: Approximate Property Boundary —

Source: USGS Topographic Map *Cupertino, California* (2015)

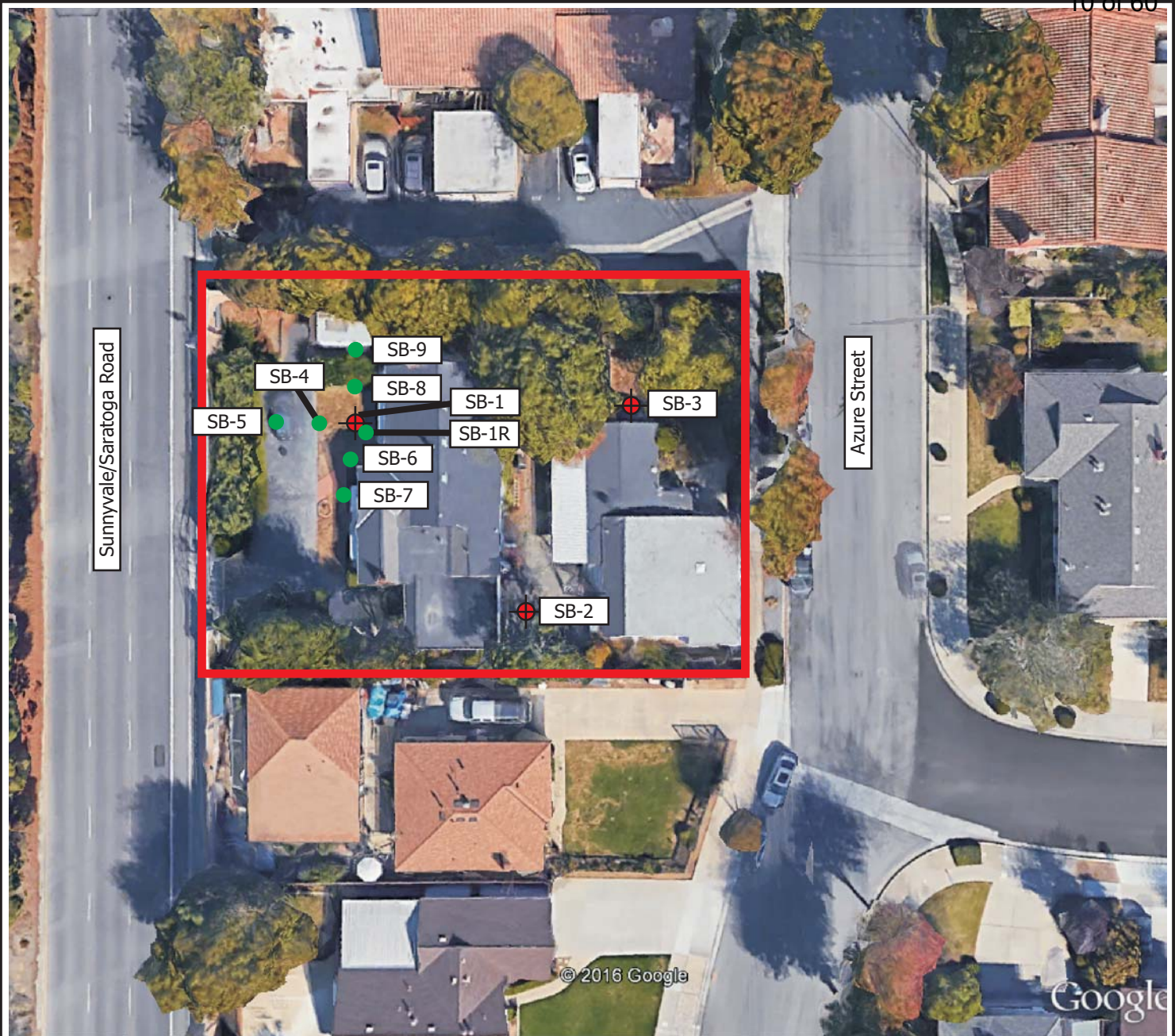


Figure 1: TOPOGRAPHIC MAP

838 Azure Street and 842 Sunnyvale/Saratoga Road, Sunnyvale, California 94087

Project Number: 355430

AEI
Consultants



0 20 40
APPROX. SCALE: 1" = 40'



LEGEND

- Approximate Property Boundary
- ⊕ Soil Boring (7/8/16)
- Soil Boring (8/3/16)

AEI Consultants

2500 Camino Diablo, Walnut Creek, California

SITE MAP

838 AZURE AND
842 SUNNYVALE/SARATOGA ROAD
SUNNYVALE, CA

FIGURE 2
Project No. 355430

TABLES

TABLE 1: SOIL SAMPLE DATA SUMMARY
838 AZURE STREET AND 842 SUNNYVALE/SARATOGA ROAD, SUNNYVALE, CALIFORNIA

Location ID	Date	Depth (feet bgs)	Arsenic (mg/kg)	Chlordane Technical (mg/kg)	a-Chlordane (mg/kg)	g-Chlordane (mg/kg)	p,p-DDD (mg/kg)	p,p-DDE (mg/kg)	p,p-DDT (mg/kg)	Dieldrin (mg/kg)	Endrin (mg/kg)	Heptachlor Epoxide (mg/kg)	All Other Target OCPs (mg/kg)
SB-1	7/8/2016	0.5	8.1	<0.016	0.0073	0.00095	0.0012	0.39	0.082	0.45	<0.00042	0.0067	<MRL
SB-1	7/8/2016	2.0	6.8	<0.016	<0.00047	<0.00021	<0.00014	0.0035	0.00047	0.063	<0.00042	0.00044	<MRL
SB-1R	8/3/2016	4.0	-	<0.025	0.0021	<0.0010	<0.0010	0.0015	<0.0010	0.022		<0.0010	<MRL
SB-2	7/8/2016	0.5	7.6	<0.016	<0.00047	<0.00021	<0.00014	0.0012	<0.00043	<0.00033	<0.00097	<0.00020	<MRL
SB-2	7/8/2016	2.0	5.0	<0.016	<0.00047	<0.00021	<0.00014	0.042	0.0077	0.0048	<0.00042	<0.00020	<MRL
SB-3	7/8/2016	0.5	9.8	<0.016	<0.00047	<0.00021	<0.00014	0.0021	<0.00043	<0.00033	<0.0042	<0.0020	<MRL
SB-3	7/8/2016	2.0	6.0	<0.016	<0.00047	<0.00021	0.0040	0.16	0.13	0.013	<0.0042	<0.0020	<MRL
SB-4	8/3/2016	0.5	-	0.082	0.014	0.0042	<0.0010	0.30	0.13	0.97	0.0021	0.010	<MRL
SB-5	8/3/2016	0.5	-	<0.025	<0.0010	<0.0010	<0.0010	0.0020	0.0014	<0.0010	<0.0010	<0.0010	<MRL
SB-6	8/3/2016	0.5	-	3.9	0.54	0.34	0.0230	0.53	0.25	2.5	0.015	0.093	<MRL
SB-7	8/3/2016	0.5	-	3.8	0.81	0.51	0.0160	0.25	0.090	2.1	<0.0010	0.12	<MRL
SB-8	8/3/2016	0.5	-	0.048	0.0063	0.003	0.0020	0.18	0.059	0.30	<0.0010	0.0051	<MRL
SB-9	8/3/2016	0.5	-	<0.025	<0.0010	<0.0010	<0.0010	0.018	0.0072	0.0059	<0.0010	<0.0010	<MRL
Comparison Values:													
ESL - Res DE			0.067	0.48	0.48*	0.48*	2.7	1.9	1.9	0.038	21	0.067	varies

Notes:

mg/kg	milligrams per kilogram
<MRL	method reporting limit
bgs	below ground surface
OCPs	Organochlorine Pesticides
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
-	not analyzed
*	compared against technical chlordane
Bold	Result exceeds comparison value

Comparison Values:

ESL - Res DE - Value shown represents residential shallow soil direct exposure scenario
San Francisco Water Quality Control Board, February 2016 (Rev. 3)

APPENDIX A
BORING LOGS



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BORING NUMBER SB-1

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CLIENT <u>Xin Lu</u>	PROJECT NAME <u>Shine Capital</u>
PROJECT NUMBER <u>355430</u>	PROJECT LOCATION <u>838 Azure St & 842 Sunnyvale/Saratoga Rd</u>
DATE STARTED <u>7/8/16</u> COMPLETED <u>7/8/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>3 inches</u>
DRILLING CONTRACTOR <u>AEI</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>Nathan Bricker</u> CHECKED BY <u>Adrian Angel</u>	AT END OF DRILLING <u>---</u>
NOTES <u>No groundwater encountered</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	☒ SB-1-0.5'				(SM) Silty Sand, brown (4/3 10YR), coarse grained, loose, dry	
	☒ SB-1-2.0'					
				2.5		

Bottom of borehole at 2.5 feet.



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BORING NUMBER SB-2

PAGE 1 OF 1

CLIENT <u>Xin Lu</u>	PROJECT NAME <u>Shine Capital</u>
PROJECT NUMBER <u>355430</u>	PROJECT LOCATION <u>838 Azure St & 842 Sunnyvale/Saratoga Rd</u>
DATE STARTED <u>7/8/16</u> COMPLETED <u>7/8/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>3 inches</u>
DRILLING CONTRACTOR <u>AEI</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>Nathan Bricker</u> CHECKED BY <u>Adrian Angel</u>	AT END OF DRILLING <u>---</u>
NOTES <u>No groundwater encountered</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	☒ SB-2-0.5'				(SC) Clayey Sand (SC), dark brown (3/3 10YR), loose, slightly moist, trace gravel	
	☒ SB-2-2.0					
				2.5		

Bottom of borehole at 2.5 feet.

BORING NUMBER SB- 3

PAGE 1 OF 1



AEI Consultants

Environmental & Engineering Services

CLIENT Xin Lu **PROJECT NAME** Shine Capital
PROJECT NUMBER 355430 **PROJECT LOCATION** 838 Azure St & 842 Sunnyvale/Saratoga Rd
DATE STARTED 7/8/16 **COMPLETED** 7/8/16 **GROUND ELEVATION** _____ **HOLE SIZE** 3 inches
DRILLING CONTRACTOR AEI **GROUND WATER LEVELS:**
DRILLING METHOD Hand Auger **AT TIME OF DRILLING** ---
LOGGED BY Nathan Bricker **CHECKED BY** Adrian Angel **AT END OF DRILLING** ---
NOTES No groundwater encountered **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-3-0.5'			1.0	(SM) Silty Sand, dark brown (4/3 10 YR), sand is medium to coarse grained, loose, dry	
					(SC) Clayey Sand (SC), dark brown (3/3 10 YR), loose, dry	
	SB-3-2'			2.5		

Bottom of borehole at 2.5 feet.



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BORING NUMBER SB-1R

PAGE 1 OF 1

CLIENT <u>Xin Lu</u>	PROJECT NAME <u>Shine Capital</u>
PROJECT NUMBER <u>355430</u>	PROJECT LOCATION <u>838 Azure Street & 842 Sunnyvale/Saratoga Rd</u>
DATE STARTED <u>8/3/16</u> COMPLETED <u>8/3/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>2 inches</u>
DRILLING CONTRACTOR <u>AEI</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>Will Hix</u> CHECKED BY <u>Adrian Angel</u>	AT END OF DRILLING <u>---</u>
NOTES <u>No groundwater encountered</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
5	SB-1R-4.5		1.1	5.0	(SM) Silty Sand, dark yellowish brown (3/4 10YR), loose, dry, coarse grained sand, no cementation, trace clay, no odor	

Bottom of borehole at 5.0 feet.



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BORING NUMBER SB-4

PAGE 1 OF 1

CLIENT <u>Xin Lu</u>	PROJECT NAME <u>Shine Capital</u>
PROJECT NUMBER <u>355430</u>	PROJECT LOCATION <u>838 Azure Street & 842 Sunnyvale/Saratoga Rd</u>
DATE STARTED <u>8/3/16</u> COMPLETED <u>8/3/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>2 inches</u>
DRILLING CONTRACTOR <u>AEI</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>Will Hix</u> CHECKED BY <u>Adrian Angel</u>	AT END OF DRILLING <u>---</u>
NOTES <u>No groundwater encountered</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-4-0.5		0.5		(SM) Silty Sand, dark yellowish brown (3/4 10YR), loose, dry, coarse grained sand, no cementation, trace clay, no odor	
	SB-4-2		2.0			
5	SB-4-4.5		0.3			
				5.0		

Bottom of borehole at 5.0 feet.

BORING NUMBER SB-5

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CLIENT <u>Xin Lu</u>	PROJECT NAME <u>Shine Capital</u>
PROJECT NUMBER <u>355430</u>	PROJECT LOCATION <u>838 Azure Street & 842 Sunnyvale/Saratoga Rd</u>
DATE STARTED <u>8/3/16</u> COMPLETED <u>8/3/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>2 inches</u>
DRILLING CONTRACTOR <u>AEI</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>Will Hix</u> CHECKED BY <u>Adrian Angel</u>	AT END OF DRILLING <u>---</u>
NOTES <u>No groundwater encountered</u>	AFTER DRILLING <u>---</u>

AEI BORING - GINT STD US LAB.GDT - 8/18/16 16:09 - P:\COMPANYWIDE PROJECTS\355000 SERIES\355430 SUNNYVALE, CA\SM TASK 3\BORING LOGS\BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-5-0.5		0.0		0.3 Asphalt driveway	
					(SM) Silty Sand, dark yellowish brown (3/4 10YR), loose, dry, coarse grained sand, no cementation, trace clay, no odor	
	SB-5-2		0.3			
5	SB-5-4.5		0.0		5.0	

Bottom of borehole at 5.0 feet.



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BORING NUMBER SB-6

PAGE 1 OF 1

CLIENT Xin Lu **PROJECT NAME** Shine Capital
PROJECT NUMBER 355430 **PROJECT LOCATION** 838 Azure Street & 842 Sunnyvale/Saratoga Rd
DATE STARTED 8/3/16 **COMPLETED** 8/3/16 **GROUND ELEVATION** _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR AEI **GROUND WATER LEVELS:**
DRILLING METHOD Hand Auger **AT TIME OF DRILLING** ---
LOGGED BY Will Hix **CHECKED BY** Adrian Angel **AT END OF DRILLING** ---
NOTES No groundwater encountered **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-6-0.5		0.9		(SM) Silty Sand, dark yellowish brown (3/4 10YR), loose, dry, coarse grained sand, no cementation, trace clay, no odor	
	SB-6-2		0.2			
5	SB-6-4.5		0.4			
				5.0		

Bottom of borehole at 5.0 feet.



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BORING NUMBER SB-7

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CLIENT <u>Xin Lu</u>	PROJECT NAME <u>Shine Capital</u>
PROJECT NUMBER <u>355430</u>	PROJECT LOCATION <u>838 Azure Street & 842 Sunnyvale/Saratoga Rd</u>
DATE STARTED <u>8/3/16</u> COMPLETED <u>8/3/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>2 inches</u>
DRILLING CONTRACTOR <u>AEI</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>Will Hix</u> CHECKED BY <u>Adrian Angel</u>	AT END OF DRILLING <u>---</u>
NOTES <u>No groundwater encountered</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-7-0.5		0.5		(SM) Silty Sand, dark yellowish brown (3/4 10YR), loose, dry, coarse grained sand, no cementation, trace clay, no odor	
	SB-7-2		1.2			
5	SB-7-4.5		2.9			
				5.0		

Bottom of borehole at 5.0 feet.



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BORING NUMBER SB-8

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CLIENT Xin Lu **PROJECT NAME** Shine Capital
PROJECT NUMBER 355430 **PROJECT LOCATION** 838 Azure Street & 842 Sunnyvale/Saratoga Rd
DATE STARTED 8/3/16 **COMPLETED** 8/3/16 **GROUND ELEVATION** _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR AEI **GROUND WATER LEVELS:**
DRILLING METHOD Hand Auger **AT TIME OF DRILLING** ---
LOGGED BY Will Hix **CHECKED BY** Adrian Angel **AT END OF DRILLING** ---
NOTES No groundwater encountered **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	 SB-8-0.5		14.2		(SM) Silty Sand, dark yellowish brown (3/4 10YR), loose, dry, coarse grained sand, no cementation, trace clay, no odor	
	 SB-8-2	10.7				
5	 SB-8-4.5		6.1	5.0		



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BORING NUMBER SB-9

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CLIENT Xin Lu **PROJECT NAME** Shine Capital
PROJECT NUMBER 355430 **PROJECT LOCATION** 838 Azure Street & 842 Sunnyvale/Saratoga Rd
DATE STARTED 8/3/16 **COMPLETED** 8/3/16 **GROUND ELEVATION** _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR AEI **GROUND WATER LEVELS:**
DRILLING METHOD Hand Auger **AT TIME OF DRILLING** ---
LOGGED BY Will Hix **CHECKED BY** Adrian Angel **AT END OF DRILLING** ---
NOTES No groundwater encountered **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-9-0.5		1.2		(SM) Silty Sand, dark yellowish brown (3/4 10YR), loose, dry, coarse grained sand, no cementation, trace clay, no odor	
	SB-9-2		0.9			
5	SB-9-4.5		0.7			

5.0

Bottom of borehole at 5.0 feet.

APPENDIX B

LABORATORY ANALYTICAL REPORTS



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1607360

Report Created for: AEI Consultants

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

Project Contact: Adrian Angel

Project P.O.: 112400

Project Name: 355430

Project Received: 07/08/2016

Analytical Report reviewed & approved for release on 07/15/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants

Project: 355430

WorkOrder: 1607360

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
e	spike reference value above calibration level
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

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.



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

Analytical Report

Client: AEI Consultants
Date Received: 7/8/16 17:47
Date Prepared: 7/11/16
Project: 355430

WorkOrder: 1607360
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
SB-1-0.5	1607360-001A	Soil	07/08/2016 10:11	GC22	123520	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aldrin	ND		0.00027	0.0010	1	07/14/2016 15:34
a-BHC	ND		0.00010	0.0010	1	07/14/2016 15:34
b-BHC	ND		0.00025	0.0010	1	07/14/2016 15:34
d-BHC	ND		0.00037	0.0010	1	07/14/2016 15:34
g-BHC	ND		0.000097	0.0010	1	07/14/2016 15:34
Chlordane (Technical)	ND		0.016	0.025	1	07/14/2016 15:34
a-Chlordane	0.0073		0.00047	0.0010	1	07/14/2016 15:34
g-Chlordane	0.00095	J	0.00021	0.0010	1	07/14/2016 15:34
p,p-DDD	0.0012		0.00014	0.0010	1	07/14/2016 15:34
p,p-DDE	0.39		0.00032	0.0010	1	07/14/2016 15:34
p,p-DDT	0.082		0.00043	0.0010	1	07/14/2016 15:34
Dieldrin	0.45		0.00033	0.0010	1	07/14/2016 15:34
Endosulfan I	ND		0.00065	0.0010	1	07/14/2016 15:34
Endosulfan II	ND		0.00020	0.0010	1	07/14/2016 15:34
Endosulfan sulfate	ND		0.00063	0.0010	1	07/14/2016 15:34
Endrin	ND		0.00042	0.0010	1	07/14/2016 15:34
Endrin aldehyde	ND		0.00020	0.0010	1	07/14/2016 15:34
Endrin ketone	ND		0.00013	0.0010	1	07/14/2016 15:34
Heptachlor	ND		0.00021	0.0010	1	07/14/2016 15:34
Heptachlor epoxide	0.0067		0.00020	0.0010	1	07/14/2016 15:34
Hexachlorobenzene	ND		0.00027	0.010	1	07/14/2016 15:34
Hexachlorocyclopentadiene	ND		0.00040	0.020	1	07/14/2016 15:34
Methoxychlor	ND		0.00089	0.0010	1	07/14/2016 15:34
Toxaphene	ND		0.035	0.050	1	07/14/2016 15:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Decachlorobiphenyl	92		70-130			07/14/2016 15:34
Analyst(s): CK						

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 7/8/16 17:47
Date Prepared: 7/11/16
Project: 355430

WorkOrder: 1607360
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
SB-1-2	1607360-002A	Soil	07/08/2016 10:31	GC22	123520	
<u>Analytes</u>	<u>Result</u>	<u>Qualifiers</u>	<u>MDL</u>	<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.00027	0.0010	1	07/14/2016 09:47
a-BHC	ND		0.00010	0.0010	1	07/14/2016 09:47
b-BHC	ND		0.00025	0.0010	1	07/14/2016 09:47
d-BHC	ND		0.00037	0.0010	1	07/14/2016 09:47
g-BHC	ND		0.000097	0.0010	1	07/14/2016 09:47
Chlordane (Technical)	ND		0.016	0.025	1	07/14/2016 09:47
a-Chlordane	ND		0.00047	0.0010	1	07/14/2016 09:47
g-Chlordane	ND		0.00021	0.0010	1	07/14/2016 09:47
p,p-DDD	ND		0.00014	0.0010	1	07/14/2016 09:47
p,p-DDE	0.0035		0.00032	0.0010	1	07/14/2016 09:47
p,p-DDT	0.00047	J	0.00043	0.0010	1	07/14/2016 09:47
Dieldrin	0.063		0.00033	0.0010	1	07/14/2016 09:47
Endosulfan I	ND		0.00065	0.0010	1	07/14/2016 09:47
Endosulfan II	ND		0.00020	0.0010	1	07/14/2016 09:47
Endosulfan sulfate	ND		0.00063	0.0010	1	07/14/2016 09:47
Endrin	ND		0.00042	0.0010	1	07/14/2016 09:47
Endrin aldehyde	ND		0.00020	0.0010	1	07/14/2016 09:47
Endrin ketone	ND		0.00013	0.0010	1	07/14/2016 09:47
Heptachlor	ND		0.00021	0.0010	1	07/14/2016 09:47
Heptachlor epoxide	0.00044	J	0.00020	0.0010	1	07/14/2016 09:47
Hexachlorobenzene	ND		0.00027	0.010	1	07/14/2016 09:47
Hexachlorocyclopentadiene	ND		0.00040	0.020	1	07/14/2016 09:47
Methoxychlor	ND		0.00089	0.0010	1	07/14/2016 09:47
Toxaphene	ND		0.035	0.050	1	07/14/2016 09:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Decachlorobiphenyl	101		70-130			07/14/2016 09:47
Analyst(s): CK						

(Cont.)

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 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 7/8/16 17:47
Date Prepared: 7/11/16
Project: 355430

WorkOrder: 1607360
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1607360-004A	Soil	07/08/2016 12:16	GC22	123520
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aldrin	ND	0.00027	0.0010	1	07/14/2016 08:39
a-BHC	ND	0.00010	0.0010	1	07/14/2016 08:39
b-BHC	ND	0.00025	0.0010	1	07/14/2016 08:39
d-BHC	ND	0.00037	0.0010	1	07/14/2016 08:39
g-BHC	ND	0.000097	0.0010	1	07/14/2016 08:39
Chlordane (Technical)	ND	0.016	0.025	1	07/14/2016 08:39
a-Chlordane	ND	0.00047	0.0010	1	07/14/2016 08:39
g-Chlordane	ND	0.00021	0.0010	1	07/14/2016 08:39
p,p-DDD	ND	0.00014	0.0010	1	07/14/2016 08:39
p,p-DDE	0.0012	0.00032	0.0010	1	07/14/2016 08:39
p,p-DDT	ND	0.00043	0.0010	1	07/14/2016 08:39
Dieldrin	ND	0.00033	0.0010	1	07/14/2016 08:39
Endosulfan I	ND	0.00065	0.0010	1	07/14/2016 08:39
Endosulfan II	ND	0.00020	0.0010	1	07/14/2016 08:39
Endosulfan sulfate	ND	0.00063	0.0010	1	07/14/2016 08:39
Endrin	ND	0.00042	0.0010	1	07/14/2016 08:39
Endrin aldehyde	ND	0.00020	0.0010	1	07/14/2016 08:39
Endrin ketone	ND	0.00013	0.0010	1	07/14/2016 08:39
Heptachlor	ND	0.00021	0.0010	1	07/14/2016 08:39
Heptachlor epoxide	ND	0.00020	0.0010	1	07/14/2016 08:39
Hexachlorobenzene	ND	0.00027	0.010	1	07/14/2016 08:39
Hexachlorocyclopentadiene	ND	0.00040	0.020	1	07/14/2016 08:39
Methoxychlor	ND	0.00089	0.0010	1	07/14/2016 08:39
Toxaphene	ND	0.035	0.050	1	07/14/2016 08:39
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Decachlorobiphenyl	101	70-130			07/14/2016 08:39
Analyst(s): CK					

(Cont.)

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 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 7/8/16 17:47
Date Prepared: 7/11/16
Project: 355430

WorkOrder: 1607360
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-0.5	1607360-005A	Soil	07/08/2016 11:14	GC22	123520
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aldrin	ND	0.00027	0.0010	1	07/14/2016 01:50
a-BHC	ND	0.00010	0.0010	1	07/14/2016 01:50
b-BHC	ND	0.00025	0.0010	1	07/14/2016 01:50
d-BHC	ND	0.00037	0.0010	1	07/14/2016 01:50
g-BHC	ND	0.000097	0.0010	1	07/14/2016 01:50
Chlordane (Technical)	ND	0.016	0.025	1	07/14/2016 01:50
a-Chlordane	ND	0.00047	0.0010	1	07/14/2016 01:50
g-Chlordane	ND	0.00021	0.0010	1	07/14/2016 01:50
p,p-DDD	ND	0.00014	0.0010	1	07/14/2016 01:50
p,p-DDE	0.042	0.00032	0.0010	1	07/14/2016 01:50
p,p-DDT	0.0077	0.00043	0.0010	1	07/14/2016 01:50
Dieldrin	0.0048	0.00033	0.0010	1	07/14/2016 01:50
Endosulfan I	ND	0.00065	0.0010	1	07/14/2016 01:50
Endosulfan II	ND	0.00020	0.0010	1	07/14/2016 01:50
Endosulfan sulfate	ND	0.00063	0.0010	1	07/14/2016 01:50
Endrin	ND	0.00042	0.0010	1	07/14/2016 01:50
Endrin aldehyde	ND	0.00020	0.0010	1	07/14/2016 01:50
Endrin ketone	ND	0.00013	0.0010	1	07/14/2016 01:50
Heptachlor	ND	0.00021	0.0010	1	07/14/2016 01:50
Heptachlor epoxide	ND	0.00020	0.0010	1	07/14/2016 01:50
Hexachlorobenzene	ND	0.00027	0.010	1	07/14/2016 01:50
Hexachlorocyclopentadiene	ND	0.00040	0.020	1	07/14/2016 01:50
Methoxychlor	ND	0.00089	0.0010	1	07/14/2016 01:50
Toxaphene	ND	0.035	0.050	1	07/14/2016 01:50
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Decachlorobiphenyl	86	70-130			07/14/2016 01:50
Analyst(s): CK					

(Cont.)

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 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 7/8/16 17:47
Date Prepared: 7/11/16
Project: 355430

WorkOrder: 1607360
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2	1607360-006A	Soil	07/08/2016 11:25	GC22	123520
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aldrin	ND	0.00027	0.0010	1	07/14/2016 09:13
a-BHC	ND	0.00010	0.0010	1	07/14/2016 09:13
b-BHC	ND	0.00025	0.0010	1	07/14/2016 09:13
d-BHC	ND	0.00037	0.0010	1	07/14/2016 09:13
g-BHC	ND	0.000097	0.0010	1	07/14/2016 09:13
Chlordane (Technical)	ND	0.016	0.025	1	07/14/2016 09:13
a-Chlordane	ND	0.00047	0.0010	1	07/14/2016 09:13
g-Chlordane	ND	0.00021	0.0010	1	07/14/2016 09:13
p,p-DDD	ND	0.00014	0.0010	1	07/14/2016 09:13
p,p-DDE	0.0021	0.00032	0.0010	1	07/14/2016 09:13
p,p-DDT	ND	0.00043	0.0010	1	07/14/2016 09:13
Dieldrin	ND	0.00033	0.0010	1	07/14/2016 09:13
Endosulfan I	ND	0.00065	0.0010	1	07/14/2016 09:13
Endosulfan II	ND	0.00020	0.0010	1	07/14/2016 09:13
Endosulfan sulfate	ND	0.00063	0.0010	1	07/14/2016 09:13
Endrin	ND	0.00042	0.0010	1	07/14/2016 09:13
Endrin aldehyde	ND	0.00020	0.0010	1	07/14/2016 09:13
Endrin ketone	ND	0.00013	0.0010	1	07/14/2016 09:13
Heptachlor	ND	0.00021	0.0010	1	07/14/2016 09:13
Heptachlor epoxide	ND	0.00020	0.0010	1	07/14/2016 09:13
Hexachlorobenzene	ND	0.00027	0.010	1	07/14/2016 09:13
Hexachlorocyclopentadiene	ND	0.00040	0.020	1	07/14/2016 09:13
Methoxychlor	ND	0.00089	0.0010	1	07/14/2016 09:13
Toxaphene	ND	0.035	0.050	1	07/14/2016 09:13
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Decachlorobiphenyl	95	70-130			07/14/2016 09:13
<u>Analyst(s):</u> CK					



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Analytical Report

Client: AEI Consultants

Date Received: 7/8/16 17:47

Date Prepared: 7/11/16

Project: 355430

WorkOrder: 1607360

Extraction Method: SW3550B/3620B

Analytical Method: SW8081A

Unit: mg/kg

Organochlorine Pesticides (Basic Target List) w/ Florisil Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-0.5	1607360-003A	Soil	07/08/2016 11:59	GC22	123589
<u>Analytes</u>	<u>Result</u>	<u>MDL</u>	<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Aldrin	ND	0.00027	0.0010	1	07/14/2016 19:38
a-BHC	ND	0.00010	0.0010	1	07/14/2016 19:38
b-BHC	ND	0.00025	0.0010	1	07/14/2016 19:38
d-BHC	ND	0.00037	0.0010	1	07/14/2016 19:38
g-BHC	ND	0.000097	0.0010	1	07/14/2016 19:38
Chlordane (Technical)	ND	0.016	0.025	1	07/14/2016 19:38
a-Chlordane	ND	0.00047	0.0010	1	07/14/2016 19:38
g-Chlordane	ND	0.00021	0.0010	1	07/14/2016 19:38
p,p-DDD	0.0040	0.00014	0.0010	1	07/14/2016 19:38
p,p-DDE	0.16	0.00032	0.0010	1	07/14/2016 19:38
p,p-DDT	0.13	0.00043	0.0010	1	07/14/2016 19:38
Dieldrin	0.013	0.00033	0.0010	1	07/14/2016 19:38
Endosulfan I	ND	0.00065	0.0010	1	07/14/2016 19:38
Endosulfan II	ND	0.00020	0.0010	1	07/14/2016 19:38
Endosulfan sulfate	ND	0.00063	0.0010	1	07/14/2016 19:38
Endrin	ND	0.00097	0.0010	1	07/14/2016 19:38
Endrin aldehyde	ND	0.00020	0.0010	1	07/14/2016 19:38
Endrin ketone	ND	0.00013	0.0010	1	07/14/2016 19:38
Heptachlor	ND	0.00021	0.0010	1	07/14/2016 19:38
Heptachlor epoxide	ND	0.00020	0.0010	1	07/14/2016 19:38
Hexachlorobenzene	ND	0.00027	0.010	1	07/14/2016 19:38
Hexachlorocyclopentadiene	ND	0.00040	0.020	1	07/14/2016 19:38
Methoxychlor	ND	0.00089	0.0010	1	07/14/2016 19:38
Toxaphene	ND	0.035	0.050	1	07/14/2016 19:38
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>			
Decachlorobiphenyl	110	70-130			07/14/2016 19:38
Analyst(s): CK					



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Analytical Report

Client: AEI Consultants
Date Received: 7/8/16 17:47
Date Prepared: 7/11/16
Project: 355430

WorkOrder: 1607360
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Arsenic

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-0.5	1607360-001A	Soil	07/08/2016 10:11	ICP-MS3	123521

Analytes	Result	RL	DE	Date Analyzed
Arsenic	8.1	0.50	1	07/14/2016 04:06

Surrogates	REC (%)	Limits	
Terbium	98	70-130	07/14/2016 04:06

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1-2	1607360-002A	Soil	07/08/2016 10:31	ICP-MS3	123521

Analytes	Result	RL	DE	Date Analyzed
Arsenic	6.8	0.50	1	07/12/2016 22:54

Surrogates	REC (%)	Limits	
Terbium	101	70-130	07/12/2016 22:54

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-0.5	1607360-003A	Soil	07/08/2016 11:59	ICP-MS3	123521

Analytes	Result	RL	DE	Date Analyzed
Arsenic	7.6	0.50	1	07/12/2016 23:00

Surrogates	REC (%)	Limits	
Terbium	102	70-130	07/12/2016 23:00

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2-2	1607360-004A	Soil	07/08/2016 12:16	ICP-MS2	123521

Analytes	Result	RL	DE	Date Analyzed
Arsenic	5.0	0.50	1	07/14/2016 08:10

Surrogates	REC (%)	Limits	
Terbium	100	70-130	07/14/2016 08:10

Analyst(s): DVH

(Cont.)



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

Analytical Report

Client: AEI Consultants

WorkOrder: 1607360

Date Received: 7/8/16 17:47

Extraction Method: SW3050B

Date Prepared: 7/11/16

Analytical Method: SW6020

Project: 355430

Unit: mg/Kg

Arsenic

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-0.5	1607360-005A	Soil	07/08/2016 11:14	ICP-MS3	123521

Analytes	Result	RL	DF	Date Analyzed
Arsenic	9.8	0.50	1	07/12/2016 23:06

Surrogates	REC (%)	Limits	
Terbium	106	70-130	07/12/2016 23:06

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3-2	1607360-006A	Soil	07/08/2016 11:25	ICP-MS3	123521

Analytes	Result	RL	DF	Date Analyzed
Arsenic	6.0	0.50	1	07/12/2016 13:26

Surrogates	REC (%)	Limits	
Terbium	107	70-130	07/12/2016 13:26

Analyst(s): DVH



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Quality Control Report

Client: AEI Consultants
Date Prepared: 7/11/16
Date Analyzed: 7/14/16
Instrument: GC22
Matrix: Soil
Project: 355430

WorkOrder: 1607360
BatchID: 123520
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg
Sample ID: MB/LCS-123520
 1607360-005AMS/MSD

QC Summary Report for SW8081A

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aldrin	ND	0.0459	0.0010	0.050	-	92	70-130
a-BHC	ND	-	0.0010	-	-	-	-
b-BHC	ND	-	0.0010	-	-	-	-
d-BHC	ND	-	0.0010	-	-	-	-
g-BHC	ND	0.0488	0.0010	0.050	-	98	70-130
Chlordane (Technical)	ND	-	0.025	-	-	-	-
a-Chlordane	ND	-	0.0010	-	-	-	-
g-Chlordane	ND	-	0.0010	-	-	-	-
p,p-DDD	ND	-	0.0010	-	-	-	-
p,p-DDE	ND	-	0.0010	-	-	-	-
p,p-DDT	ND	0.0476	0.0010	0.050	-	95	70-130
Dieldrin	ND	0.0502	0.0010	0.050	-	100	70-130
Endosulfan I	ND	-	0.0010	-	-	-	-
Endosulfan II	ND	-	0.0010	-	-	-	-
Endosulfan sulfate	ND	-	0.0010	-	-	-	-
Endrin	ND	0.0456	0.0010	0.050	-	91	70-130
Endrin aldehyde	ND	-	0.0010	-	-	-	-
Endrin ketone	ND	-	0.0010	-	-	-	-
Heptachlor	ND	0.0564	0.0010	0.050	-	113	70-130
Heptachlor epoxide	ND	-	0.0010	-	-	-	-
Hexachlorobenzene	ND	-	0.010	-	-	-	-
Hexachlorocyclopentadiene	ND	-	0.020	-	-	-	-
Methoxychlor	ND	-	0.0010	-	-	-	-
Toxaphene	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0435	0.0465		0.050	87	93	70-130

(Cont.)

NELAP 4033ORELAP

QA/QC Officer



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Quality Control Report

Client: AEI Consultants
Date Prepared: 7/11/16
Date Analyzed: 7/14/16
Instrument: GC22
Matrix: Soil
Project: 355430

WorkOrder: 1607360
BatchID: 123520
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg
Sample ID: MB/LCS-123520
1607360-005AMS/MSD

QC Summary Report for SW8081A

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	0.0468	0.0453	0.050	ND	94	91	70-130	3.21	20
g-BHC	0.0515	0.0486	0.050	ND	103	97	70-130	5.70	20
p,p-DDT	0.0589	0.0566	0.050	ND	118	113	70-130	4.01	20
Dieldrin	0.0583	0.0542	0.050	ND	117	108	70-130	7.34	20
Endrin	0.0501	0.0426	0.050	ND	100	85	70-130	16.0	20
Heptachlor	0.0596	0.0571	0.050	ND	119	114	70-130	4.39	20
Surrogate Recovery									
Decachlorobiphenyl	0.0396	0.0445	0.050		79	89	70-130	11.6	20



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Quality Control Report

Client: AEI Consultants
Date Prepared: 7/11/16
Date Analyzed: 7/14/16
Instrument: GC23
Matrix: Soil
Project: 355430

WorkOrder: 1607360
BatchID: 123589
Extraction Method: SW3550B/3620B
Analytical Method: SW8081A
Unit: mg/kg
Sample ID: MB/LCS-123589

QC Summary Report for SW8081A w/ Florisil Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aldrin	ND	0.0506	0.0010	0.050	-	101	70-130
a-BHC	ND	-	0.0010	-	-	-	-
b-BHC	ND	-	0.0010	-	-	-	-
d-BHC	ND	-	0.0010	-	-	-	-
g-BHC	ND	0.0564	0.0010	0.050	-	113	70-130
Chlordane (Technical)	ND	-	0.025	-	-	-	-
a-Chlordane	ND	-	0.0010	-	-	-	-
g-Chlordane	ND	-	0.0010	-	-	-	-
p,p-DDD	ND	-	0.0010	-	-	-	-
p,p-DDE	ND	-	0.0010	-	-	-	-
p,p-DDT	ND	0.0640	0.0010	0.050	-	128	70-130
Dieldrin	ND	0.0620	0.0010	0.050	-	124	70-130
Endosulfan I	ND	-	0.0010	-	-	-	-
Endosulfan II	ND	-	0.0010	-	-	-	-
Endosulfan sulfate	ND	-	0.0010	-	-	-	-
Endrin	ND	0.0575	0.0010	0.050	-	115	70-130
Endrin aldehyde	ND	-	0.0010	-	-	-	-
Endrin ketone	ND	-	0.0010	-	-	-	-
Heptachlor	ND	0.0582	0.0010	0.050	-	116	70-130
Heptachlor epoxide	ND	-	0.0010	-	-	-	-
Hexachlorobenzene	ND	-	0.010	-	-	-	-
Hexachlorocyclopentadiene	ND	-	0.020	-	-	-	-
Methoxychlor	ND	-	0.0010	-	-	-	-
Toxaphene	ND	-	0.050	-	-	-	-
Surrogate Recovery							
Decachlorobiphenyl	0.0479	0.0546		0.050	96	109	70-130



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Quality Control Report

Client: AEI Consultants

Date Prepared: 7/11/16

Date Analyzed: 7/12/16

Instrument: ICP-MS1

Matrix: Soil

Project: 355430

WorkOrder: 1607360

BatchID: 123521

Extraction Method: SW3050B

Analytical Method: SW6020

Unit: mg/Kg

Sample ID: MB/LCS-123521
1607360-006AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	52.0	0.50	50	-	104	75-125
Surrogate Recovery							
Terbium	492	518		500	98	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	58.0	59.6	50	5.982	104	107	75-125	2.74	20
Surrogate Recovery									
Terbium	536	553	500		107	111	70-130	3.05	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	5.80	5.982	3.04	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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CHAIN-OF-CUSTODY RECORD

Attachment 10
39 of 60
Page 1 of 1

WorkOrder: 1607360

ClientCode: AEL

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:

Adrian Angel
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 321-3561 FAX: (925) 283-6121

Email: aangel@aeiconsultants.com
cc/3rd Party:
PO: 112400
ProjectNo: 355430

Bill to:

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

Requested TAT: 5 days;

Date Received: 07/08/2016

Date Logged: 07/11/2016

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
1607360-001	SB-1-0.5	Soil	7/8/2016 10:11	☐	A	A										
1607360-002	SB-1-2	Soil	7/8/2016 10:31	☐	A	A										
1607360-003	SB-2-0.5	Soil	7/8/2016 11:59	☐	A	A										
1607360-004	SB-2-2	Soil	7/8/2016 12:16	☐	A	A										
1607360-005	SB-3-0.5	Soil	7/8/2016 11:14	☐	A	A										
1607360-006	SB-3-2	Soil	7/8/2016 11:25	☐	A	A										

Test Legend:

1	8081_ESL_S (J)	2	ASMS_TTLC_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

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

QC Level: LEVEL 2

Work Order: 1607360

Project: 355430

Client Contact: Adrian Angel

Date Logged: 7/11/2016

Comments:

Contact's Email: aangel@aeiconsultants.com

☐ 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
1607360-001A	SB-1-0.5	Soil	SW6020 (Arsenic)	1	Stainless Steel tube 2"x3"	☐	7/8/2016 10:11	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1607360-002A	SB-1-2	Soil	SW6020 (Arsenic)	1	Stainless Steel tube 2"x3"	☐	7/8/2016 10:31	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1607360-003A	SB-2-0.5	Soil	SW6020 (Arsenic)	1	Stainless Steel tube 2"x3"	☐	7/8/2016 11:59	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1607360-004A	SB-2-2	Soil	SW6020 (Arsenic)	1	Stainless Steel tube 2"x3"	☐	7/8/2016 12:16	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1607360-005A	SB-3-0.5	Soil	SW6020 (Arsenic)	1	Stainless Steel tube 2"x3"	☐	7/8/2016 11:14	5 days		☐	
			SW8081A (OC Pesticides)			☐		5 days		☐	
1607360-006A	SB-3-2	Soil	SW6020 (Arsenic)	1	Stainless Steel tube 2"x3"	☐	7/8/2016 11:25	5 days		☐	
			SW8081A (OC Pesticides)			☐		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.



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CHAIN OF CUSTODY RECORD⁴

Attachment 10

41 of 60

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

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQUIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐; Claim #_____

Report To: ADRIAN ANGEL/NATE BRICKER Bill To: AEI CONSULTANTS

Company: AEI CONSULTANTS

Tele: (925) 746-6000

E-Mail: Norickan@AEIConsultants.co.uk

Project #: 355430

Project Name:

Project Location: Sunnyvale, CA

Purchase Order# 112400

Sampler Signature:

Analysis Request

[illegible]

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: <i>Nick B. H.</i>	Date: <i>7/8/16</i>	Time: <i>1747</i>	Received By: <i>Mum 28</i>
------------------------------------	---------------------	-------------------	----------------------------

Relinquished By:	Date:	Time:	Received By:
------------------	-------	-------	--------------

Relinquished By:	Date:	Time:	Received By:
------------------	-------	-------	--------------

COMMENTS:

ICE/t° 9.0
GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____

VOAS	O&G	METALS	OTHER	HAZARDOUS:
PRESERVATION		pH<2		



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Sample Receipt Checklist

Client Name:	AEI Consultants	Date and Time Received:	7/8/2016 17:47
Project Name:	355430	Date Logged:	7/11/2016
WorkOrder №:	1607360	Received by:	Maria Venegas
Carrier:	<u>Client Drop-In</u>	Logged by:	Maria Venegas
	Matrix: <u>Soil</u>		

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: 9°C		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 ☐	
(Ice Type: WET ICE)			

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:

TABLE 1: SOIL SAMPLE DATA SUMMARY
838 AZURE STREET AND 842 SUNNYVALE/SARATOGA ROAD, SUNNYVALE, CALIFORNIA

Location ID	Date	Depth (feet bgs)	Arsenic (mg/kg)	Chlordane Technical (mg/kg)	a-Chlordane (mg/kg)	g-Chlordane (mg/kg)	p,p-DDD (mg/kg)	p,p-DDE (mg/kg)	p,p-DDT (mg/kg)	Dieldrin (mg/kg)	Endrin (mg/kg)	Heptachlor Epoxide (mg/kg)	All Other Target OCPs (mg/kg)
SB-1	7/8/2016	0.5	8.1	<0.016	0.0073	0.00095	0.0012	0.39	0.082	0.45	<0.00042	0.0067	<MRL
SB-1	7/8/2016	2.0	6.8	<0.016	<0.00047	<0.00021	<0.00014	0.0035	0.00047	0.063	<0.00042	0.00044	<MRL
SB-1R	8/3/2016	4.0	-	<0.025	0.0021	<0.0010	<0.0010	0.0015	<0.0010	0.022		<0.0010	<MRL
SB-2	7/8/2016	0.5	7.6	<0.016	<0.00047	<0.00021	<0.00014	0.0012	<0.00043	<0.00033	<0.00097	<0.00020	<MRL
SB-2	7/8/2016	2.0	5.0	<0.016	<0.00047	<0.00021	<0.00014	0.042	0.0077	0.0048	<0.00042	<0.00020	<MRL
SB-3	7/8/2016	0.5	9.8	<0.016	<0.00047	<0.00021	<0.00014	0.0021	<0.00043	<0.00033	<0.0042	<0.0020	<MRL
SB-3	7/8/2016	2.0	6.0	<0.016	<0.00047	<0.00021	0.0040	0.16	0.13	0.013	<0.0042	<0.0020	<MRL
SB-4	8/3/2016	0.5	-	0.082	0.014	0.0042	<0.0010	0.30	0.13	0.97	0.0021	0.010	<MRL
SB-5	8/3/2016	0.5	-	<0.025	<0.0010	<0.0010	<0.0010	0.0020	0.0014	<0.0010	<0.0010	<0.0010	<MRL
SB-6	8/3/2016	0.5	-	3.9	0.54	0.34	0.0230	0.53	0.25	2.5	0.015	0.093	<MRL
SB-7	8/3/2016	0.5	-	3.8	0.81	0.51	0.0160	0.25	0.090	2.1	<0.0010	0.12	<MRL
SB-8	8/3/2016	0.5	-	0.048	0.0063	0.003	0.0020	0.18	0.059	0.30	<0.0010	0.0051	<MRL
SB-9	8/3/2016	0.5	-	<0.025	<0.0010	<0.0010	<0.0010	0.018	0.0072	0.0059	<0.0010	<0.0010	<MRL
Comparison Values:													
ESL - Res DE			0.067	0.48	0.48*	0.48*	2.7	1.9	1.9	0.038	21	0.067	varies

Notes:

mg/kg	milligrams per kilogram
<MRL	method reporting limit
bgs	below ground surface
OCPs	Organochlorine Pesticides
DDD	Dichlorodiphenyldichloroethane
DDE	Dichlorodiphenyldichloroethene
DDT	Dichlorodiphenyltrichloroethane
-	not analyzed
*	compared against technical chlordane
Bold	Result exceeds comparison value

Comparison Values:

ESL - Res DE - Value shown represents residential shallow soil direct exposure scenario
San Francisco Water Quality Control Board, February 2016 (Rev. 3)



Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 355430; Sunnyvale
WorkOrder: 1608172

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)



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Analytical Report

Client: AEI Consultants
Date Received: 8/3/16 19:33
Date Prepared: 8/4/16
Project: 355430; Sunnyvale

WorkOrder: 1608172
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1R-4.5	1608172-001A	Soil	08/03/2016 16:24	GC22	124677
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.0010	1	08/04/2016 22:28
a-BHC	ND		0.0010	1	08/04/2016 22:28
b-BHC	ND		0.0010	1	08/04/2016 22:28
d-BHC	ND		0.0010	1	08/04/2016 22:28
g-BHC	ND		0.0010	1	08/04/2016 22:28
Chlordane (Technical)	ND		0.025	1	08/04/2016 22:28
a-Chlordane	0.0021		0.0010	1	08/04/2016 22:28
g-Chlordane	ND		0.0010	1	08/04/2016 22:28
p,p-DDD	ND		0.0010	1	08/04/2016 22:28
p,p-DDE	0.0015		0.0010	1	08/04/2016 22:28
p,p-DDT	ND		0.0010	1	08/04/2016 22:28
Dieldrin	0.022		0.0010	1	08/04/2016 22:28
Endosulfan I	ND		0.0010	1	08/04/2016 22:28
Endosulfan II	ND		0.0010	1	08/04/2016 22:28
Endosulfan sulfate	ND		0.0010	1	08/04/2016 22:28
Endrin	ND		0.0010	1	08/04/2016 22:28
Endrin aldehyde	ND		0.0010	1	08/04/2016 22:28
Endrin ketone	ND		0.0010	1	08/04/2016 22:28
Heptachlor	ND		0.0010	1	08/04/2016 22:28
Heptachlor epoxide	ND		0.0010	1	08/04/2016 22:28
Hexachlorobenzene	ND		0.010	1	08/04/2016 22:28
Hexachlorocyclopentadiene	ND		0.020	1	08/04/2016 22:28
Methoxychlor	ND		0.0010	1	08/04/2016 22:28
Toxaphene	ND		0.050	1	08/04/2016 22:28
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	110		70-130		08/04/2016 22:28

Analyst(s): CK

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 8/3/16 19:33
Date Prepared: 8/4/16
Project: 355430; Sunnyvale

WorkOrder: 1608172
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5-0.5	1608172-005A	Soil	08/03/2016 12:37	GC22	124677
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.0010	1	08/04/2016 23:02
a-BHC	ND		0.0010	1	08/04/2016 23:02
b-BHC	ND		0.0010	1	08/04/2016 23:02
d-BHC	ND		0.0010	1	08/04/2016 23:02
g-BHC	ND		0.0010	1	08/04/2016 23:02
Chlordane (Technical)	ND		0.025	1	08/04/2016 23:02
a-Chlordane	ND		0.0010	1	08/04/2016 23:02
g-Chlordane	ND		0.0010	1	08/04/2016 23:02
p,p-DDD	ND		0.0010	1	08/04/2016 23:02
p,p-DDE	0.0020		0.0010	1	08/04/2016 23:02
p,p-DDT	0.0014		0.0010	1	08/04/2016 23:02
Dieldrin	ND		0.0010	1	08/04/2016 23:02
Endosulfan I	ND		0.0010	1	08/04/2016 23:02
Endosulfan II	ND		0.0010	1	08/04/2016 23:02
Endosulfan sulfate	ND		0.0010	1	08/04/2016 23:02
Endrin	ND		0.0010	1	08/04/2016 23:02
Endrin aldehyde	ND		0.0010	1	08/04/2016 23:02
Endrin ketone	ND		0.0010	1	08/04/2016 23:02
Heptachlor	ND		0.0010	1	08/04/2016 23:02
Heptachlor epoxide	ND		0.0010	1	08/04/2016 23:02
Hexachlorobenzene	ND		0.010	1	08/04/2016 23:02
Hexachlorocyclopentadiene	ND		0.020	1	08/04/2016 23:02
Methoxychlor	ND		0.0010	1	08/04/2016 23:02
Toxaphene	ND		0.050	1	08/04/2016 23:02
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	105		70-130		08/04/2016 23:02

Analyst(s): CK

(Cont.)

NELAP 4033ORELAP

 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 8/3/16 19:33
Date Prepared: 8/4/16
Project: 355430; Sunnyvale

WorkOrder: 1608172
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6-0.5	1608172-008A	Soil	08/03/2016 11:34	GC22	124677
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.0010	1	08/05/2016 00:11
a-BHC	ND		0.0010	1	08/05/2016 00:11
b-BHC	ND		0.0010	1	08/05/2016 00:11
d-BHC	ND		0.0010	1	08/05/2016 00:11
g-BHC	ND		0.0010	1	08/05/2016 00:11
Chlordane (Technical)	3.9		1.2	50	08/05/2016 19:23
a-Chlordane	0.54		0.050	50	08/05/2016 19:23
g-Chlordane	0.34		0.050	50	08/05/2016 19:23
p,p-DDD	0.023		0.0010	1	08/05/2016 00:11
p,p-DDE	0.53		0.050	50	08/05/2016 19:23
p,p-DDT	0.25		0.0010	1	08/05/2016 00:11
Dieldrin	2.5		0.050	50	08/05/2016 19:23
Endosulfan I	ND		0.0010	1	08/05/2016 00:11
Endosulfan II	ND		0.0010	1	08/05/2016 00:11
Endosulfan sulfate	ND		0.0010	1	08/05/2016 00:11
Endrin	0.015		0.0010	1	08/05/2016 00:11
Endrin aldehyde	ND		0.0010	1	08/05/2016 00:11
Endrin ketone	ND		0.0010	1	08/05/2016 00:11
Heptachlor	ND		0.0010	1	08/05/2016 00:11
Heptachlor epoxide	0.093		0.0010	1	08/05/2016 00:11
Hexachlorobenzene	ND		0.010	1	08/05/2016 00:11
Hexachlorocyclopentadiene	ND		0.020	1	08/05/2016 00:11
Methoxychlor	ND		0.0010	1	08/05/2016 00:11
Toxaphene	ND		0.050	1	08/05/2016 00:11
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	109		70-130		08/05/2016 00:11

Analyst(s): CK

(Cont.)

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 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 8/3/16 19:33
Date Prepared: 8/4/16
Project: 355430; Sunnyvale

WorkOrder: 1608172
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8-0.5	1608172-014A	Soil	08/03/2016 13:24	GC22	124677
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.0010	1	08/04/2016 23:36
a-BHC	ND		0.0010	1	08/04/2016 23:36
b-BHC	ND		0.0010	1	08/04/2016 23:36
d-BHC	ND		0.0010	1	08/04/2016 23:36
g-BHC	ND		0.0010	1	08/04/2016 23:36
Chlordane (Technical)	0.048		0.025	1	08/04/2016 23:36
a-Chlordane	0.0063		0.0010	1	08/04/2016 23:36
g-Chlordane	0.0030		0.0010	1	08/04/2016 23:36
p,p-DDD	0.0020		0.0010	1	08/04/2016 23:36
p,p-DDE	0.18		0.0010	1	08/04/2016 23:36
p,p-DDT	0.059		0.0010	1	08/04/2016 23:36
Dieldrin	0.30		0.0010	1	08/04/2016 23:36
Endosulfan I	ND		0.0010	1	08/04/2016 23:36
Endosulfan II	ND		0.0010	1	08/04/2016 23:36
Endosulfan sulfate	ND		0.0010	1	08/04/2016 23:36
Endrin	ND		0.0010	1	08/04/2016 23:36
Endrin aldehyde	ND		0.0010	1	08/04/2016 23:36
Endrin ketone	ND		0.0010	1	08/04/2016 23:36
Heptachlor	ND		0.0010	1	08/04/2016 23:36
Heptachlor epoxide	0.0051		0.0010	1	08/04/2016 23:36
Hexachlorobenzene	ND		0.010	1	08/04/2016 23:36
Hexachlorocyclopentadiene	ND		0.020	1	08/04/2016 23:36
Methoxychlor	ND		0.0010	1	08/04/2016 23:36
Toxaphene	ND		0.050	1	08/04/2016 23:36
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	104		70-130		08/04/2016 23:36

Analyst(s): CK

(Cont.)

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 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 8/3/16 19:33
Date Prepared: 8/4/16
Project: 355430; Sunnyvale

WorkOrder: 1608172
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-9-0.5	1608172-017A	Soil	08/03/2016 14:13	GC22	124677
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.0010	1	08/04/2016 21:54
a-BHC	ND		0.0010	1	08/04/2016 21:54
b-BHC	ND		0.0010	1	08/04/2016 21:54
d-BHC	ND		0.0010	1	08/04/2016 21:54
g-BHC	ND		0.0010	1	08/04/2016 21:54
Chlordane (Technical)	ND		0.025	1	08/04/2016 21:54
a-Chlordane	ND		0.0010	1	08/04/2016 21:54
g-Chlordane	ND		0.0010	1	08/04/2016 21:54
p,p-DDD	ND		0.0010	1	08/04/2016 21:54
p,p-DDE	0.018		0.0010	1	08/04/2016 21:54
p,p-DDT	0.0072		0.0010	1	08/04/2016 21:54
Dieldrin	0.0059		0.0010	1	08/04/2016 21:54
Endosulfan I	ND		0.0010	1	08/04/2016 21:54
Endosulfan II	ND		0.0010	1	08/04/2016 21:54
Endosulfan sulfate	ND		0.0010	1	08/04/2016 21:54
Endrin	ND		0.0010	1	08/04/2016 21:54
Endrin aldehyde	ND		0.0010	1	08/04/2016 21:54
Endrin ketone	ND		0.0010	1	08/04/2016 21:54
Heptachlor	ND		0.0010	1	08/04/2016 21:54
Heptachlor epoxide	ND		0.0010	1	08/04/2016 21:54
Hexachlorobenzene	ND		0.010	1	08/04/2016 21:54
Hexachlorocyclopentadiene	ND		0.020	1	08/04/2016 21:54
Methoxychlor	ND		0.0010	1	08/04/2016 21:54
Toxaphene	ND		0.050	1	08/04/2016 21:54
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	104		70-130		08/04/2016 21:54

Analyst(s): CK



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Analytical Report

Client: AEI Consultants
Date Received: 8/3/16 19:33
Date Prepared: 8/4/16
Project: 355430; Sunnyvale

WorkOrder: 1608172
Extraction Method: SW3550B/3620B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4-0.5	1608172-002A	Soil	08/03/2016 10:44	GC22	124747
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.0010	1	08/10/2016 12:24
a-BHC	ND		0.0010	1	08/10/2016 12:24
b-BHC	ND		0.0010	1	08/10/2016 12:24
d-BHC	ND		0.0010	1	08/10/2016 12:24
g-BHC	ND		0.0010	1	08/10/2016 12:24
Chlordane (Technical)	0.082		0.025	1	08/10/2016 12:24
a-Chlordane	0.014		0.0010	1	08/10/2016 12:24
g-Chlordane	0.0042		0.0010	1	08/10/2016 12:24
p,p-DDD	ND		0.0010	1	08/10/2016 12:24
p,p-DDE	0.30		0.0010	1	08/10/2016 12:24
p,p-DDT	0.13		0.0010	1	08/10/2016 12:24
Dieldrin	0.97		0.010	10	08/10/2016 14:50
Endosulfan I	ND		0.0010	1	08/10/2016 12:24
Endosulfan II	ND		0.0010	1	08/10/2016 12:24
Endosulfan sulfate	ND		0.0010	1	08/10/2016 12:24
Endrin	0.0021		0.0010	1	08/10/2016 12:24
Endrin aldehyde	ND		0.0010	1	08/10/2016 12:24
Endrin ketone	ND		0.0010	1	08/10/2016 12:24
Heptachlor	ND		0.0010	1	08/10/2016 12:24
Heptachlor epoxide	0.010		0.0010	1	08/10/2016 12:24
Hexachlorobenzene	ND		0.010	1	08/10/2016 12:24
Hexachlorocyclopentadiene	ND		0.020	1	08/10/2016 12:24
Methoxychlor	ND		0.0010	1	08/10/2016 12:24
Toxaphene	ND		0.050	1	08/10/2016 12:24
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	106		70-130		08/10/2016 12:24

Analyst(s): CK

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 Angela Rydelius, Lab Manager



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Analytical Report

Client: AEI Consultants
Date Received: 8/3/16 19:33
Date Prepared: 8/4/16
Project: 355430; Sunnyvale

WorkOrder: 1608172
Extraction Method: SW3550B/3620B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides w/ Florisil Clean-up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7-0.5	1608172-011A	Soil	08/03/2016 12:50	GC22	124747
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Aldrin	ND		0.0010	1	08/05/2016 15:57
a-BHC	ND		0.0010	1	08/05/2016 15:57
b-BHC	ND		0.0010	1	08/05/2016 15:57
d-BHC	ND		0.0010	1	08/05/2016 15:57
g-BHC	ND		0.0010	1	08/05/2016 15:57
Chlordane (Technical)	3.8		0.50	20	08/09/2016 22:12
a-Chlordane	0.81		0.020	20	08/09/2016 22:12
g-Chlordane	0.51		0.020	20	08/09/2016 22:12
p,p-DDD	0.016		0.0010	1	08/05/2016 15:57
p,p-DDE	0.25		0.0010	1	08/05/2016 15:57
p,p-DDT	0.090		0.0010	1	08/05/2016 15:57
Dieldrin	2.1		0.020	20	08/09/2016 22:12
Endosulfan I	ND		0.0010	1	08/05/2016 15:57
Endosulfan II	ND		0.0010	1	08/05/2016 15:57
Endosulfan sulfate	ND		0.0010	1	08/05/2016 15:57
Endrin	ND		0.0010	1	08/05/2016 15:57
Endrin aldehyde	ND		0.0010	1	08/05/2016 15:57
Endrin ketone	ND		0.0010	1	08/05/2016 15:57
Heptachlor	ND		0.0010	1	08/05/2016 15:57
Heptachlor epoxide	0.12		0.0010	1	08/05/2016 15:57
Hexachlorobenzene	ND		0.010	1	08/05/2016 15:57
Hexachlorocyclopentadiene	ND		0.020	1	08/05/2016 15:57
Methoxychlor	ND		0.0010	1	08/05/2016 15:57
Toxaphene	ND		0.050	1	08/05/2016 15:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	108		70-130		08/05/2016 15:57

Analyst(s): CK



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Quality Control Report

Client: AEI Consultants
Date Prepared: 8/3/16
Date Analyzed: 8/3/16
Instrument: GC22
Matrix: Soil
Project: 355430; Sunnyvale

WorkOrder: 1608172
BatchID: 124677
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg
Sample ID: MB/LCS-124677
 1608116-001AMS/MSD

QC Summary Report for SW8081A

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aldrin	ND	0.0478	0.00027	0.0010	0.050	-	96	70-130
a-BHC	ND	-	0.00010	0.0010	-	-	-	-
b-BHC	ND	-	0.00025	0.0010	-	-	-	-
d-BHC	ND	-	0.00037	0.0010	-	-	-	-
g-BHC	ND	0.0505	0.000097	0.0010	0.050	-	101	70-130
Chlordane (Technical)	ND	-	0.016	0.025	-	-	-	-
a-Chlordane	ND	-	0.00047	0.0010	-	-	-	-
g-Chlordane	ND	-	0.00021	0.0010	-	-	-	-
p,p-DDD	ND	-	0.00014	0.0010	-	-	-	-
p,p-DDE	ND	-	0.00032	0.0010	-	-	-	-
p,p-DDT	ND	0.0505	0.00043	0.0010	0.050	-	101	70-130
Dieldrin	ND	0.0537	0.00033	0.0010	0.050	-	107	70-130
Endosulfan I	ND	-	0.00065	0.0010	-	-	-	-
Endosulfan II	ND	-	0.00020	0.0010	-	-	-	-
Endosulfan sulfate	ND	-	0.00063	0.0010	-	-	-	-
Endrin	ND	0.0472	0.00042	0.0010	0.050	-	94	70-130
Endrin aldehyde	ND	-	0.00020	0.0010	-	-	-	-
Endrin ketone	ND	-	0.00013	0.0010	-	-	-	-
Heptachlor	ND	0.0568	0.00021	0.0010	0.050	-	114	70-130
Heptachlor epoxide	ND	-	0.00020	0.0010	-	-	-	-
Hexachlorobenzene	ND	-	0.00027	0.010	-	-	-	-
Hexachlorocyclopentadiene	ND	-	0.00040	0.020	-	-	-	-
Methoxychlor	ND	-	0.00089	0.0010	-	-	-	-
Toxaphene	ND	-	0.035	0.050	-	-	-	-
Surrogate Recovery								
Decachlorobiphenyl	0.0560	0.0524			0.050	112	105	70-130

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QA/QC Officer



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Quality Control Report

Client: AEI Consultants

Date Prepared: 8/3/16

Date Analyzed: 8/3/16

Instrument: GC22

Matrix: Soil

Project: 355430; Sunnyvale

WorkOrder: 1608172

BatchID: 124677

Extraction Method: SW3550B

Analytical Method: SW8081A

Unit: mg/kg

Sample ID: MB/LCS-124677
1608116-001AMS/MSD

QC Summary Report for SW8081A

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	0.0473	0.0494	0.050	ND	95	99	70-130	4.26	20
g-BHC	0.0499	0.0516	0.050	ND	100	103	70-130	3.49	20
p,p-DDT	0.0507	0.0523	0.050	ND	101	105	70-130	3.09	20
Dieldrin	0.0530	0.0549	0.050	ND	106	110	70-130	3.54	20
Endrin	0.0484	0.0500	0.050	ND	97	100	70-130	3.22	20
Heptachlor	0.0583	0.0606	0.050	ND	117	121	70-130	3.93	20
Surrogate Recovery									
Decachlorobiphenyl	0.0507	0.0585	0.050		101	117	70-130	14.2	20



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Quality Control Report

Client: AEI Consultants

Date Prepared: 8/3/16

Date Analyzed: 8/5/16

Instrument: GC22

Matrix: Soil

Project: 355430; Sunnyvale

WorkOrder: 1608172

BatchID: 124747

Extraction Method: SW3550B/3620B

Analytical Method: SW8081A

Unit: mg/kg

Sample ID: MB/LCS-124747

QC Summary Report for SW8081A w/ Florisil Clean-Up

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aldrin	ND	0.0510	0.00027	0.0010	0.050	-	102	70-130
a-BHC	ND	-	0.00010	0.0010	-	-	-	-
b-BHC	ND	-	0.00025	0.0010	-	-	-	-
d-BHC	ND	-	0.00037	0.0010	-	-	-	-
g-BHC	ND	0.0550	0.000097	0.0010	0.050	-	110	70-130
Chlordane (Technical)	ND	-	0.016	0.025	-	-	-	-
a-Chlordane	ND	-	0.00047	0.0010	-	-	-	-
g-Chlordane	ND	-	0.00021	0.0010	-	-	-	-
p,p-DDD	ND	-	0.00014	0.0010	-	-	-	-
p,p-DDE	ND	-	0.00032	0.0010	-	-	-	-
p,p-DDT	ND	0.0616	0.00043	0.0010	0.050	-	123	70-130
Dieldrin	ND	0.0607	0.00033	0.0010	0.050	-	121	70-130
Endosulfan I	ND	-	0.00065	0.0010	-	-	-	-
Endosulfan II	ND	-	0.00020	0.0010	-	-	-	-
Endosulfan sulfate	ND	-	0.00063	0.0010	-	-	-	-
Endrin	ND	0.0508	0.00097	0.0010	0.050	-	102	70-130
Endrin aldehyde	ND	-	0.00020	0.0010	-	-	-	-
Endrin ketone	ND	-	0.00013	0.0010	-	-	-	-
Heptachlor	ND	0.0638	0.00021	0.0010	0.050	-	128	70-130
Heptachlor epoxide	ND	-	0.00020	0.0010	-	-	-	-
Hexachlorobenzene	ND	-	0.00027	0.010	-	-	-	-
Hexachlorocyclopentadiene	ND	-	0.00040	0.020	-	-	-	-
Methoxychlor	ND	-	0.00089	0.0010	-	-	-	-
Toxaphene	ND	-	0.035	0.050	-	-	-	-
Surrogate Recovery								
Decachlorobiphenyl	0.0569	0.0555			0.050	114	111	70-130

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Pittsburg, CA 94565-1701
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CHAIN-OF-CUSTODY RECORD

Attachment 10
55 of 60
Page 1 of 1

WorkOrder: 1608172

ClientCode: AEL

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

Report to:

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

Email: nbricker@aeiconsultants.com
cc/3rd Party:
PO: 113844
ProjectNo: 355430; Sunnyvale

Bill to:

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

Requested TAT: 5 days;

Date Received: 08/03/2016

Date Logged: 08/04/2016

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
1608172-001	SB-1R-4.5	Soil	8/3/2016 16:24	☐	A											
1608172-002	SB-4-0.5	Soil	8/3/2016 10:44	☐	A	A										
1608172-005	SB-5-0.5	Soil	8/3/2016 12:37	☐	A											
1608172-008	SB-6-0.5	Soil	8/3/2016 11:34	☐	A											
1608172-011	SB-7-0.5	Soil	8/3/2016 12:50	☐	A	A										
1608172-014	SB-8-0.5	Soil	8/3/2016 13:24	☐	A											
1608172-017	SB-9-0.5	Soil	8/3/2016 14:13	☐	A											

Test Legend:

1	8081_ESL_S (J)	2	8081_FLORISIL_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

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

QC Level: LEVEL 2

Work Order: 1608172

Project: 355430; Sunnyvale

Client Contact: Nathan Bricker

Date Logged: 8/4/2016

Comments:

Contact's Email: nbricker@aeiconsultants.com

☐ 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
1608172-001A	SB-1R-4.5	Soil	SW8081A (OC Pesticides) <Dieldrin_1>	1	Stainless Steel tube 2"x6"	☐	8/3/2016 16:24	5 days		☐	
1608172-002A	SB-4-0.5	Soil	SW8081A (OC Pesticides w/ Florisil Clean-up) <Dieldrin_1> SW8081A (OC Pesticides) <Dieldrin_1>	1	Stainless Steel tube 2"x6"	☐	8/3/2016 10:44	5 days		☐	
						☐		5 days		☒	
1608172-003A	SB-4-2	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 10:52			☒	
1608172-004A	SB-4-4.5	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 11:05			☒	
1608172-005A	SB-5-0.5	Soil	SW8081A (OC Pesticides) <Dieldrin_1>	1	Stainless Steel tube 2"x6"	☐	8/3/2016 12:37	5 days		☐	
1608172-006A	SB-5-2	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 12:57			☒	
1608172-007A	SB-5-4.5	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 13:13			☒	
1608172-008A	SB-6-0.5	Soil	SW8081A (OC Pesticides) <Dieldrin_1>	1	Stainless Steel tube 2"x6"	☐	8/3/2016 11:34	5 days		☐	
1608172-009A	SB-6-2	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 11:50			☒	
1608172-010A	SB-6-4.5	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 12:09			☒	
1608172-011A	SB-7-0.5	Soil	SW8081A (OC Pesticides w/ Florisil Clean-up) <Dieldrin_1> SW8081A (OC Pesticides) <Dieldrin_1>	1	Stainless Steel tube 2"x6"	☐	8/3/2016 12:50	5 days		☐	
						☐		5 days		☒	
1608172-012A	SB-7-2	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 13:03			☒	

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.



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WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1608172

Project: 355430; Sunnyvale

Client Contact: Nathan Bricker

Date Logged: 8/4/2016

Comments:

Contact's Email: nbricker@aeiconsultants.com

☐ 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
1608172-013A	SB-7-4.5	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 13:23			☒	
1608172-014A	SB-8-0.5	Soil	SW8081A (OC Pesticides) <Dieldrin_1>	1	Stainless Steel tube 2"x6"	☐	8/3/2016 13:24	5 days		☐	
1608172-015A	SB-8-2	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 13:43			☒	
1608172-016A	SB-8-4.5	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 14:03			☒	
1608172-017A	SB-9-0.5	Soil	SW8081A (OC Pesticides) <Dieldrin_1>	1	Stainless Steel tube 2"x6"	☐	8/3/2016 14:13	5 days		☐	
1608172-018A	SB-9-2	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 14:30			☒	
1608172-019A	SB-9-4.5	Soil		1	Stainless Steel tube 2"x6"	☐	8/3/2016 14:43			☒	

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.



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CHAIN OF CUSTODY RECORD

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

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐; Claim # _____

Report To: Nathan Bricker

Bill To: AEI Consultants

Company: AEI Consultants

2500 Camino Diablo, Walnut Creek, CA 94597

Tele: (707) 484-6223

E-Mail: nbricker@aeiconsultants.com

Project #: 355430

Project Name: Sunnyvale

Project Location: Azure St, Sunnyvale

Purchase Order#113844

Sampler Signature: *Nathan Bricker*

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED		Other	ICE	BTX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E&E)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 808 (CI Pesticides) Low Level	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	HOLD
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																		
SB-3-4.5	SB-3	8/3	1624						✓						✓					✓												
SB-4-0.5	SB-4	8/3	1044						✓						✓					✓												
SB-4-2-	SB-4	8/3	1052						✓						✓					✓												
SB-4-4.5	SB-4	8/3	1105						✓						✓					✓												
SB-5-0.5	SB-5	8/3	1237						✓						✓					✓												
SB-5-2	SB-5	8/3	1257						✓						✓					✓												
SB-5-4.5	SB-5	8/3	1313						✓						✓					✓												
SB-6-0.5	SB-6	8/3	1134						✓						✓					✓												
SB-6-2	SB-6	8/3	1150						✓						✓					✓												
SB-6-4.5	SB-6	8/3	1209						✓						✓					✓												
SB-7-0.5	SB-7	8/3	1250						✓						✓					✓												

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:

Date:

Time:

Received By:

ICE/t°

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

COMMENTS:

Page 1 of 2

* Sample ID changed
per Nathan

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION pH<2



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CHAIN OF CUSTODY RECORD 59

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQUIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; Claim #_____

Bill To: AEI Consultants

Company: AEI Consultants

2500 Camino Diablo, Walnut Creek, CA 94597

Tele: (707) 484-6223

E-Mail: nbricker@aeiconsultants.com

Project #: 355430

Project Name: Sunnyvale

Project Location: Azure St, Sunnyvale

Purchase Order#113844**Sampler Signature:**

William B. Hix

Analysis Request

[illegible]

***MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:

Date:

Time:

Received By:

ICE/t°

COMMENTS:

Relinquished By:

Date:

Time:

Received By:

GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____

Page 2 of 2

Relinquished By:

Date:

Time:

Received By:

VOAS	O&G	METALS	OTHER	HAZARDOUS:
PRESERVATION				
pH<2				



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Sample Receipt Checklist

Client Name: **AEI Consultants**
Project Name: **355430; Sunnyvale**
WorkOrder No: **1608172** Matrix: Soil
Carrier: Client Drop-In

Date and Time Received: **8/3/2016 19:33**
Date Logged: **8/4/2016**
Received by: **Jena Alfaro**
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: 2°C		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 ☐	

(Ice Type: WET ICE)

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: