



December 9, 2016

Velda Goe – Development Program Manager
California Affordable Housing Initiatives, Inc.
1801 Harrison Street, 2nd Floor
Oakland, CA 94612

**Subject: Phase II Limited Soil & Soil Vapor Investigation Report
1228-1236 East 17th Street, Oakland, California
EIS Project # 1652-2**

Dear Ms. Goe:

Environmental Investigation Services Inc. (EIS) is submitting the results of a Phase II Limited Soil & Soil Vapor Investigation conducted at 1228-1236 East 17th Street in Oakland, Alameda County, California, hereafter called the Site. The location of the Site is shown on Figure 1 of this report. The purpose of this investigation was to assess the documented lead impacts in soil and potential volatile organic compound (VOC) impacts in soil vapor.

I. BACKGROUND

A. Site Overview

The Site, located at 1228-1236 East 17th Street in Oakland, California is comprised of three parcels of assessor parcel numbers (APNs) 020-0214-012-1, 020-0214-013, and 020-0214-014, covering an irregularly shaped area of approximately 12,298 square feet (SF). The property is currently an undeveloped vacant lot vegetated with grass and weeds. EIS completed a previous Phase I Environmental Site Assessment (ESA) for the Site on October 24, 2016. The Phase I ESA identified a recognized environmental concern associated with the documented lead impacted site soil and a potential vapor intrusion concern associated with the historical solvent use/storage at neighboring property 1745 14th Avenue.

B. Historical Photograph Review

EIS reviewed a series of photos on Google Maps street view feature. In a photo dated January 2014, a three story residential structure is visible on the central and southeastern portion of the Site, with a paved cement parking lot and possible grassy play area on the northwest portion of the property. Dirt and grass areas appear on the southwest and southeast property boundary. The residential building appears to be unoccupied in this photo, as all windows are boarded up and signs of fire damage are visible. A chain-link fence and locked gate surrounds the entire property.

In the next available photograph, dated August 2014, the majority of the cement parking lot is crushed and broken, with the rubble piled on the northwest side of the property. There appear to be no other significant changes from the January 2014 photograph.

In the next available photograph dated July 2015, the Site appears as it does in present day. The photo depicts the property as a fenced vacant dirt lot vegetated with grass and weeds, as it exists in present day. There are no visible signs of leftover rubble from the former building or parking lot. Images discussed in this section are included in Attachment C of this report.

II. PHASE II LIMITED SOIL AND SOIL VAPOR INVESTIGATION

The Phase II Limited Subsurface Soil and Soil Vapor Investigation included the following tasks:

- Notified USA North of the proposed boring locations and contracted with a private utility locator to clear underground utilities.
- Prepared a sampling plan with a site-specific health and safety plan for all field activities.
- Obtained required Water Resources Well Permit from Alameda County Public Works Agency (ACPWA) prior to initiating fieldwork. A copy of the permit is included in Attachment D of this report.
- Advanced sixteen temporary soil borings using track-mounted GeoProbe direct push technology (DPT) drilling equipment on the subject property. Fourteen borings (SB-1 through SB-14) were advanced for the purpose of soil sample collection along with two borings (SV-1 and SV-2) for soil vapor sample collection. SB-1 through SB-14 were advanced throughout the entire property. SV-1 and SV-2 were advanced on the southeastern portion of the property.
- Collected soil samples at depths of 0.5 and 3 feet (ft.) below ground surface (bgs) from soil borings SB-1 through SB-14.
- Collected soil vapor samples at a depth of 5 ft. bgs from borings SV-1 and SV-2.
- Transferred soil vapor samples collected from borings SV-1 and SV-2 to Eurofins Air Toxics (Eurofins), a California state licensed laboratory. Transferred soil samples collected from SB-1 through SB-14 to McCampbell Analytical, Inc. (McCampbell), a California state licensed laboratory. All samples were transferred under chain-of-custody documentation. Analyzed all soil vapor samples for VOCs using EPA method TO-15. Analyzed all soil samples for lead using EPA method 6020, and samples SB-1@0.5' and SB-7@0.5' for organochlorine pesticides using EPA method 8081A.
- Observed and logged subsurface conditions from each boring, noting any field evidence of contaminants (such as odors or discoloration).

- Prepared this technical report to present field procedures, laboratory methods, analytical results, and investigation findings.

III. FIELD PROCEDURES

A. Exploratory Drilling and Sampling Activities

Prior to drilling activities, EIS notified USA North of proposed boring locations to clear for possible conflicts with underground utilities. In addition, EIS contracted Coast Wide Utility Locators (CWUL) on November 14, 2016 to search for any existing private utilities conflicting with planned boring locations. CWUL found no indications of buried utilities in the proposed boring vicinities. However, CWUL stated that scanning equipment picked up a number of anomalous signals, particularly on the central and northwestern sides of the property. CWUL interpreted these readings as indications of buried rubble.

EIS contracted with Environmental Control Associates (ECA) of Aptos, California, a C-57 licensed drilling company to advance a total of sixteen temporary soil borings using direct push (GeoProbe™) technology. On November 17, 2016, ECA advanced fourteen temporary soil borings (SB-1 through SB-14) for the purpose of soil sample collection and two temporary soil borings (SV-1 and SV-2) for the purpose of soil vapor sample collection. SB-1 through SB-14 were advanced throughout the entire property. SV-1 and SV-2 were advanced on the southeastern portion of the property.

Soil borings were advanced by hydraulically pushing the GeoProbe™ sampling device to the desired depths and recovering the soil cores from each boring. The sampler, which is equipped with a 2-inch diameter acetate liner, is capable of collecting a continuous soil core up to 4 feet long. After each sample drive, the sampler was removed from the borehole, the soil filled acetate liner was removed, and the sampler was decontaminated and fitted with a new acetate liner. The sampler was then inserted back into the borehole and hydraulically pushed through the next sample interval. Soil samples were collected from borings SB-1 through SB-14 from depth intervals of 0-0.5 ft. bgs and 2.5-3.0 ft. bgs. Sample IDs were designated with the boring number as the prefix and ending interval depth as the suffix (e.g. sample from 0-0.5' at SB-2 was designated SB-2@0.5'). Soil samples collected for chemical analysis were sealed in acetate liners with Teflon tape and plastic endcaps on both sides. Soil samples were then labelled, logged onto chain-of-custody documentation, and placed in a chilled ice chest with crushed ice.

B. Subsurface Observations

Soils encountered in all borings were logged for relative moisture content and soil texture using the Unified Soil Classification System (USCS). Logs of exploratory borings are included in Attachment A of this report. Native soils and sediments encountered in all of the borings primarily consisted of damp, fine to coarse-grained gravelly sand, medium to high plasticity sandy and silty clay, and silty to clayey sand. In addition, pieces of brick were encountered in boring SB-12. Groundwater was not encountered in any of the borings.

C. Soil Vapor Sampling

Soil vapor sampling performed during this project generally followed the guidelines of the Department of Toxic Substances Control's (DTSC) "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" (DTSC, 2011) and "Advisory - Active Soil Gas Investigations" (DTSC, 2015).

Temporary soil vapor probes were advanced at depths of 5 and 10 feet in borings SV-1 and SV-2. The soil vapor probe consisted of a preassembled soil vapor-sampling tip with polypropylene (Nylaflo®) tubing surrounded by dry sand pack backfill. The sand pack was topped with dry bentonite, and then hydrated bentonite to the surface to seal the air space inside the borehole and to prevent air short-circuiting. A schematic diagram of the soil vapor sampling probe construction is presented on Figure 3, and a schematic diagram of the sampling train is presented in Figure 4.

The polypropylene tubing from the sampling tip was extended above the ground surface and connected to an in-line filter, a flow regulator, and a laboratory-prepared sampling Summa™ canister. After the construction of the soil vapor sampling system was completed, the entire soil vapor sampling assembly was left inactive for an equilibrium period.

Following the equilibrium period, a shut-in test was performed to ensure the sampling assembly was free from leaks before purging and sampling. Following the shut-in test, the soil vapor probe and sampling train was purged of the default three casing volumes which includes the internal volume of the tubing, the void space of the sand pack around the probe tip, and the void space of the dry bentonite in the annular space.

Leak testing was performed using isopropanol, a liquid leak check compound, by applying isopropanol with a clean towel to all aboveground fittings in the sampling train and placing an isopropanol saturated towel adjacent to the borehole beneath a shroud.

After purging was completed, the sampling Summa™ canister valve was opened and a soil vapor sample was collected. A flow rate of 167 ml/min was maintained with flow controllers provided by Eurofins Air Toxics Laboratory. The Summa™ canisters were closed when a vacuum of two to five inches of mercury was reached. The soil vapor samples were contained in the sampling Summa™ canisters after the sampling valves were closed and each sample was logged onto a chain-of-custody document, delivered to the appropriate analytical laboratory, and analyzed. For each sampling container, the sample ID, canister and corresponding flow regulator identification numbers, initial and final vacuum readings, sampling time, and locations were recorded for each sample in the field (see attached soil vapor sampling field note sheets).

Eurofins Summa™ canisters for samples SV-1@5' DUP and SV-1@10' were defective. Upon opening each canister valve, pressure gauges indicated insufficient vacuums to allow sample collection. EIS attempted sample collection and submitted both samples to Eurofins. Based on field observations and recommendations of Eurofins staff, EIS cancelled the analysis of both samples. In addition, no sample was collected for SV-2@10' due to the highly plastic clay encountered at 10 ft.

bgs. The canister vacuum was unable to draw a sufficient soil vapor sample due to the low air permeability of the clay.

D. Completion Activities

Immediately following completion of drilling work, EIS communicated with the assigned ACPWA inspector Marcellino Vialpando via phone call. The ACPWA inspector was not able to visit the Site due to schedule constraints, and instructed EIS to proceed with completion activities.

Per inspector and permit instruction, borings SB-1 through SB-14 were backfilled with compacted soil cuttings. Following soil vapor sample collection, soil vapor tubing was pulled from borings SV-1 and SV-2 and disposed. Borings SV-1 and SV-2 were re-drilled to remove the artificial sand-pack and bentonite, and subsequently filled with neat cement grout. Used acetate liners and polypropylene tubing were stored in a 55-gallon metal drum and disposed of by ECA.

IV. ANALYTICAL RESULTS

A. Laboratory Analyses

Soil vapor samples were transported to Eurofins, a state-licensed laboratory in Folsom, California. Soil vapor samples were analyzed for VOCs using EPA method TO-15. Soil samples were placed in chilled chest on crushed ice, and transported by the laboratory courier to McCampbell, a state-licensed laboratory in Pittsburg, California. Soil samples were analyzed for lead by EPA method 6020. Soil samples SB-1@0.5' and SB-7@0.5' for organochlorine pesticides by EPA method 8081A.

Soil and soil vapor sample analytical data are summarized respectively in Tables 1 and 2. Laboratory certified analytical reports and chain-of-custody documents for all samples are included in Attachment B of this report.

B. Soil Sample Analytical Results

Laboratory analytical results revealed lead concentrations in all soil samples collected from borings SB-1 through SB-14. Soil samples collected from the 0.5 ft. bgs depth interval contained lead concentrations ranging from 27 to 1,400 milligrams per-kilogram (mg/kg), while lead concentrations in soil samples collected from the 3 ft. bgs depth interval ranged from 4 to 2,100 mg/kg.

Analytical results revealed no detectable concentrations of organochlorine pesticides in soil samples SB-1@0.5' and SB-7@0.5'.

Soil sample analytical data are summarized in Table 1. Certified laboratory analytical reports and chain-of-custody documents for all samples are included in Attachment B of this report.

C. Soil Vapor Sample Analytical Results

Analysis of soil vapor samples collected from the subject property revealed low concentrations of benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl ethyl ketone. Soil vapor sample SV-1@5' contained concentrations of benzene at 5.4 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), toluene at 20 $\mu\text{g}/\text{m}^3$, ethylbenzene at 8 $\mu\text{g}/\text{m}^3$ and total xylenes (o, m, p-xylenes) at 38 $\mu\text{g}/\text{m}^3$. Soil vapor sample

SV-2@5' contained concentrations of benzene at 4.5 µg/m³, toluene at 41 µg/m³, ethylbenzene at 4.9 µg/m³ and xylenes at 22.2 µg/m³. Each sample also contained low concentrations of miscellaneous VOCs including 1,3-butadiene, ethanol, acetone, hexane, cyclohexane, heptane, carbon disulfide, and tetrahydrofuran.

Soil vapor sample analytical results are summarized in Table 2. Refer to Attachment B of this report for a full listing of analytes and specific detection limits.

V. CONCLUSIONS

EIS advanced sixteen temporary soil borings on the subject property for the purpose of soil and soil vapor sample collection on November 17, 2016. EIS offers the following conclusions:

- Soils encountered during the investigation primarily consisted of damp, fine to coarse-grained gravelly sand, medium to high plasticity sandy and silty clay, and silty to clayey sand. Groundwater was not encountered in any of the borings. No field evidence of contamination, such as odor or staining in soil, was observed.
- Rubble from the previous building and/or parking lot may be buried in the shallow Site subsurface based on historical photos, private utility locator findings, and pieces of building material encountered in soil borings.
- Twenty-one of the twenty eight analyzed soil samples contained concentrations of lead that exceeded the Regional Water Quality Control Boards Environmental Screening Level (RWQCB ESL) of 80 mg/kg. Twelve of fourteen soil samples collected from 0.5 ft. depths and nine of fourteen soil samples collected from 3 ft. depths exceed the ESL of 80 mg/kg. Four soil samples revealed lead concentrations over 1,000 mg/kg that exceed the Total Threshold Limit Concentration (TTLC).
- Soil vapor sample analysis revealed low detections of BTEX, methyl ethyl ketone, and several other miscellaneous VOCs at concentrations beneath applicable RWQCB ESLs for residential land use.

EIS recommends the following:

- Based on the number of lead detections in soil samples that exceeded the residential use RWQCB ESL, EIS recommends submitting this report to Alameda County Environmental Health.

VI. LIMITATIONS

This report has been prepared specifically for the Site located at 1228-1236 E. 17th Street in Oakland, California and was done according to the current State and local agency suggested guidance documents for these investigations. The interpretations, conclusions and recommendations made herein are based on the data and analysis for the soil vapor samples collected on-site. Conditions of the property can change over time and the use of this report by third parties is entirely at their own risk.

The soil borings can only present information accurately on the area directly at the point of the boring. They give a general indication of the condition of the site, but will not serve as a basis for a guarantee of non-contamination of the site. The conclusions and professional opinions presented are developed in accordance with generally accepted practice as outlined in the guidelines of the California Regional Water Quality Control Board and/or other agencies for soil and groundwater sampling, and Department of Toxic Substances Control for soil vapor sampling.

The chemical analysis results are based on data collected at the sampling locations only, therefore Environmental Investigation Services, Inc. cannot have complete knowledge of the underlying conditions. Conditions at the project site will change with time due to natural processes or the works of man.

Please note that reports of contamination must be submitted to the agencies in a timely manner. This report has been prepared for use solely of California Affordable Housing Initiatives, Inc., our Client. This report shall not be relied upon by or transferred to any other party, or used for any other purpose, without the express written authorization of our Client. Environmental Investigation Services, Inc. is not responsible for errors neither in contract laboratory analysis and reporting, nor for information not available, nor unreported or unknown sources of site contamination during the course of the study. Accordingly, the findings of this report will apply to the present conditions only; the opinions expressed therein are subject to revisions in light of new information, and no warranties are expressed or implied therein.

All reports and findings are based on the conditions and practices observed and information made available to Environmental Investigation Services Inc. Our services consist of professional opinions; conclusions and recommendations made herein were in accordance with generally accepted engineering principles and practices.

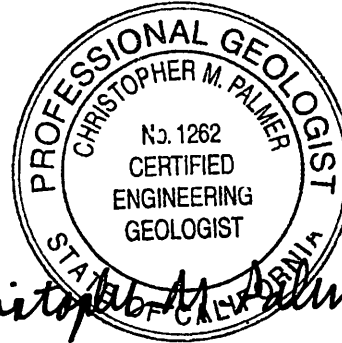
If you have any questions or comments regarding this report, please contact EIS at (408) 402-9800.


Sincerely,

Environmental Investigation Services, Inc.



Tyler Sproule
Staff Geologist




Christopher M. Palmer, C. E. G. 1262
Senior Consulting Geologist

Attachments:

- Table 1 – Summary of Soil Sample Analytical Results
- Table 2 – Summary of Soil Vapor Sample Analytical Results

- Figure 1 – Site Location Map
- Figure 2 – Soil Boring Location Map & Lead Concentrations
- Figure 3 – Soil Vapor Probe Construction Diagrams
- Figure 4 – Soil Vapor Sampling Train Diagram

- Attachment A – Boring Logs
- Attachment B – Laboratory Report and Chain of Custody Documents
- Attachment C – Historical Photos of Subject Property
- Attachment D – Alameda County Public Works Agency Permit

References:

“Phase I Environmental Site Assessment: 1228-1236 E. 17th Street, Oakland, CA.” EIS, Inc. October 24, 2016.

“Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air – Second Edition” U.S. Environmental Protection Agency Office of Research and Development. January 1999.

“Advisory: Active Soil Gas Investigations” California Environmental Protection Agency, Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, and San Francisco Regional Water Quality Control Board. July 2015.

“Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance” Department of Toxic Substances Control and California Environmental Protection Agency. October 2011.

San Francisco Bay Regional Water Quality Control Board, Interim Final 2016 Rev 3, User’s Guide Derivation and Application of Environmental Screening Levels. February 2016.

Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, 1984, U.S. Geological Survey Professional Paper 1270.

Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory. Lawrence Berkeley National Lab Environmental Restoration Program. June 2002 (Revised April 2009).

Lead Based Paint Risk Assessment Report: CA 30-365, Site 373. Environmental Science & Engineering, Inc. 1993.

Official California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3.

Table 1 - Summary of Soil Sample Analytical Results

Lead and Pesticides
1228-1236 E. 17th Street
Oakland, California

EIS Project #: 1652-2

Boring ID	Depth (ft.)	Sample ID	Date	Lead	Organochlorine Pesticides ^a
<i>RWQCB ESLs (Human Health - Res A.1)</i>				80	--
SB-1	0.5'	SB-1@0.5'	11/17/2016	27	ND
	3'	SB-1@3'		4	NA
SB-2	0.5'	SB-2@0.5'	11/17/2016	110	ND
	3'	SB-2@3'		5.8	NA
SB-3	0.5'	SB-3@0.5'	11/17/2016	1,400	NA
	3'	SB-3@3'		53	NA
SB-4	0.5'	SB-4@0.5'	11/17/2016	180	NA
	3'	SB-4@3'		5.3	NA
SB-5	0.5'	SB-5@0.5'	11/17/2016	260	NA
	3'	SB-5@3'		29	NA
SB-6	0.5'	SB-6@0.5'	11/17/2016	500	NA
	3'	SB-6@3'		110	NA
SB-7	0.5'	SB-7@0.5'	11/17/2016	240	NA
	3'	SB-7@3'		660	NA
SB-8	0.5'	SB-8@0.5'	11/17/2016	920	NA
	3'	SB-8@3'		95	NA
SB-9	0.5'	SB-9@0.5'	11/17/2016	220	NA
	3'	SB-9@3'		960	NA
SB-10	0.5'	SB-10@0.5'	11/17/2016	140	NA
	3'	SB-10@3'		2,100	NA
SB-11	0.5'	SB-11@0.5'	11/17/2016	68	NA
	3'	SB-11@3'		1,800	NA
SB-12	0.5'	SB-12@0.5'	11/17/2016	130	NA
	3'	SB-12@3'		110	NA
SB-13	0.5'	SB-13@0.5'	11/17/2016	160	NA
	3'	SB-13@3'		99	NA
SB-14	0.5'	SB-14@0.5'	11/17/2016	220	NA
	3'	SB-14@3'		1,700	NA

Notes

Data are reported in milligrams per kilogram (mg/kg)

EPA Method 8081A for Organochlorine Pesticides, EPA Method 6020 for Lead

Bold = results which are greater than the ESLs or CHHSLs

*RWQCB ESLs = Regional Water Quality Control Board's Environmental Screening Levels
(San Francisco Bay Region, Feb. 2016, Rev. 3)*

ND = Not Detected

NA = Not Analyzed

-- = Not Established

^a Refer to certified laboratory analytical report for full list of analytes and detection limits

Table 2 - Summary of Soil Vapor Sample Analytical Results
1228-1236 E. 17th Street, Oakland, California

Sample ID	Depth	Date	PCE	TCE	2-Butanone (Methyl Ethyl Ketone)	1,3-Butadiene	Ethanol	Acetone	Cyclohexane	Hexane	Heptane	Benzene	Toluene	Ethyl benzene	o-Xylene	m,p-Xylene	Vinyl Chloride	Tetrahydrofuran	Carbon Disulfide	2-Propanol	Other VOCs*
RWQCB ESLs (Residential SG-1)			240	240	2.6E+06	-	-	1.6E+07	-	-	-	48	160,000	560	52,000	52,000	4.7	-	-	-	-
SV-1	5'	11/17/2016	<7.3	<5.8	17	11	14	42	7.2	140	7.4	5.4	20	8.0	10	28	<2.8	<3.2	<13	<11	ND
SV-2	5'	11/17/2016	<7.2	<5.7	39	9.6	15	130	3.7	120	5.6	4.5	41	4.9	6.2	16	<2.7	4.6	14	<10	ND

Notes

Data are reported in micrograms per cubic meter (µg/m3)

EPA Method TO-15 for VOC analysis

VOCs = Volatile Organic Compounds

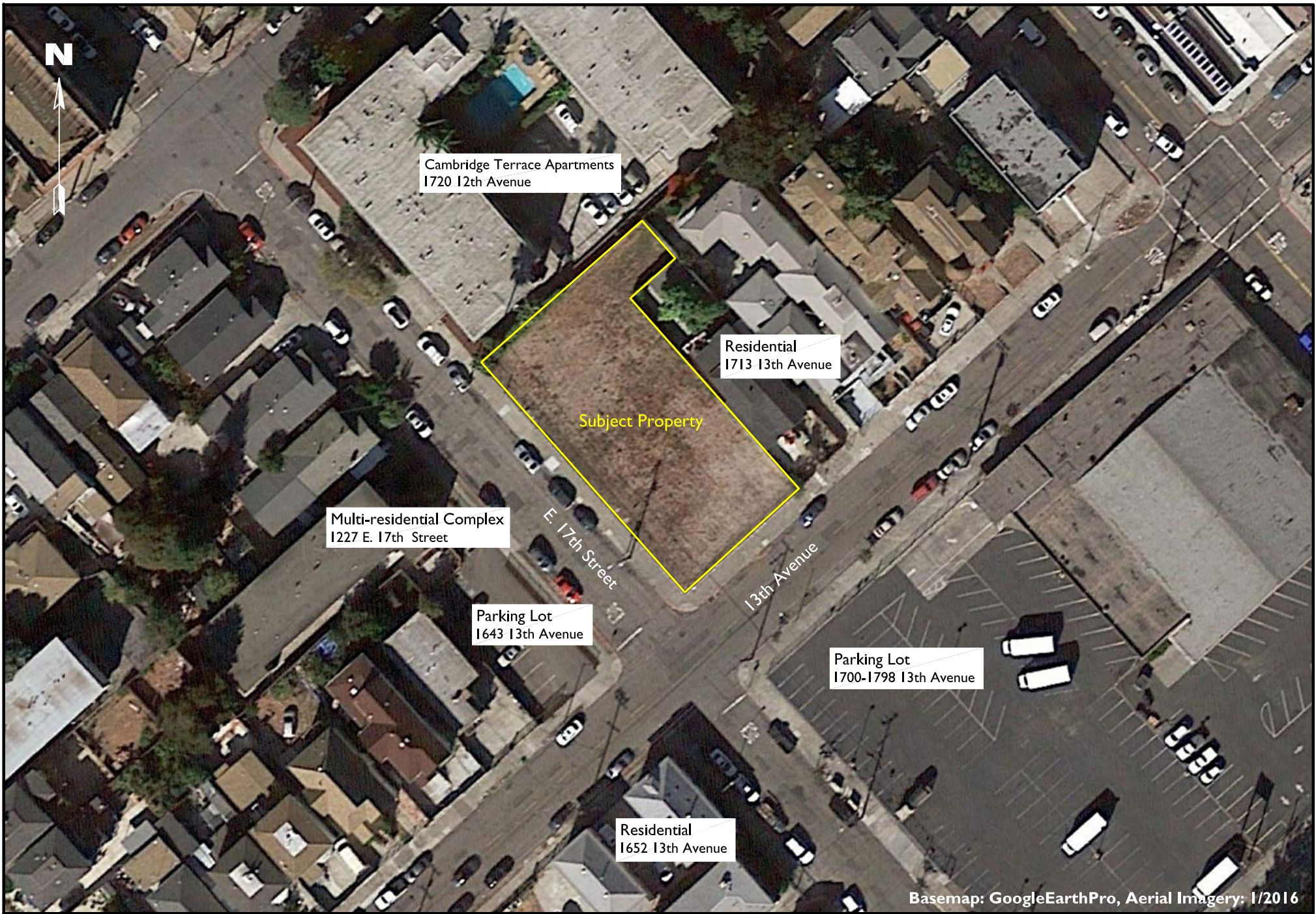
PCE = Tetrachloroethylene

TCE = Trichloroethylene

< = Non-detection as reported by the analytical laboratory with specified detection limit of analytic run

* = See certified laboratory analytical report for full analyte listings and detection limits

RWQCB ESLs = Regional Water Quality Control Board's Environmental Screening Levels (San Francisco Bay Region, Feb. 2016, Revision 3)



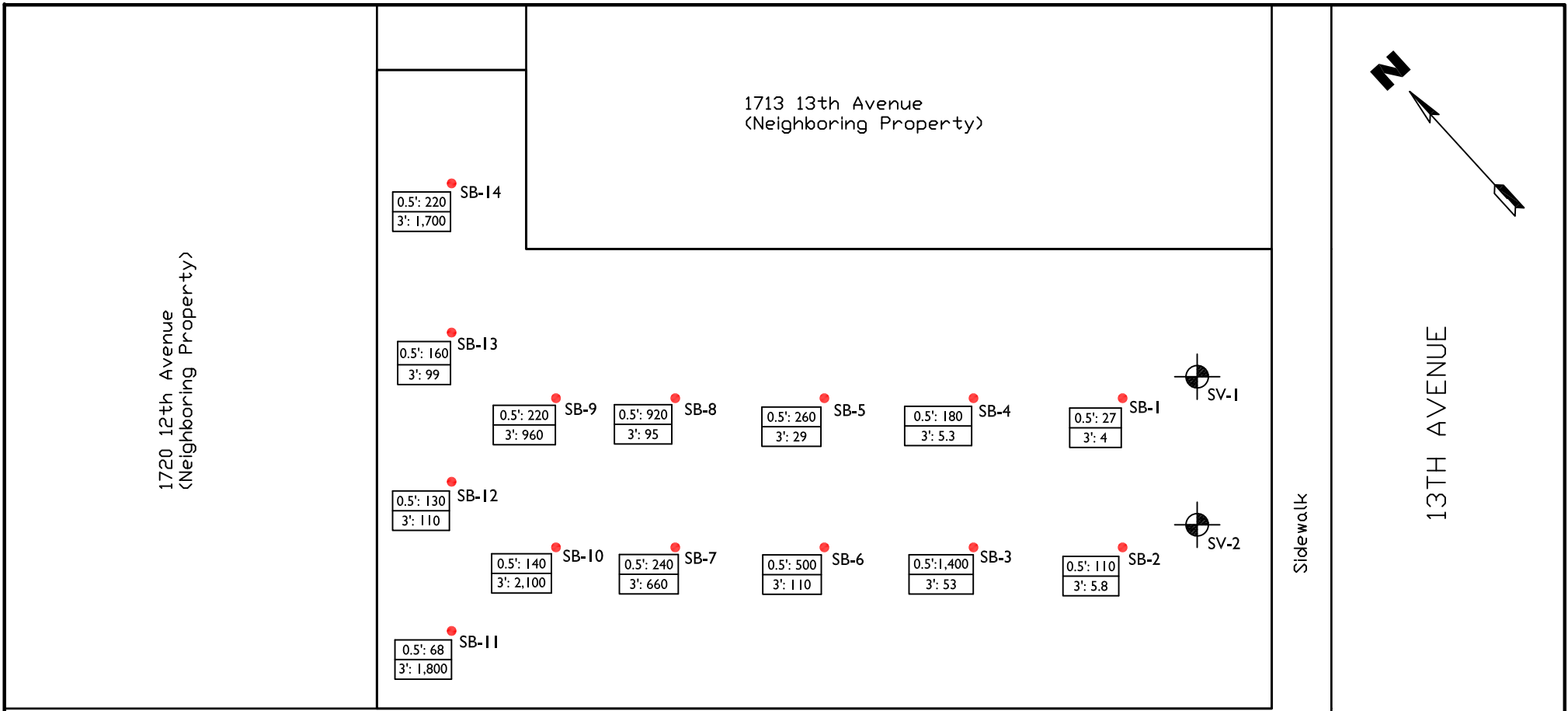
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Site Location Map

1228, 1232, and 1236 E. 17th Street, Oakland, California

Figure: I
 EIS Project: 1652-2
 December 9, 2016



EXPLANATION:

- Temporary Soil Vapor Well location
- Temporary Soil Boring Location

SB-2	← Boring ID
0.5': 200	← Lead concentration at 0.5 ft. bgs
3': 10	← Lead concentration at 3 ft. bgs

Tables display chemical concentration data from soil samples collected on November 17, 2016. All chemical concentration data displayed are in milligrams per-kilogram (mg/kg).

Approximate Scale: 1" = 25'

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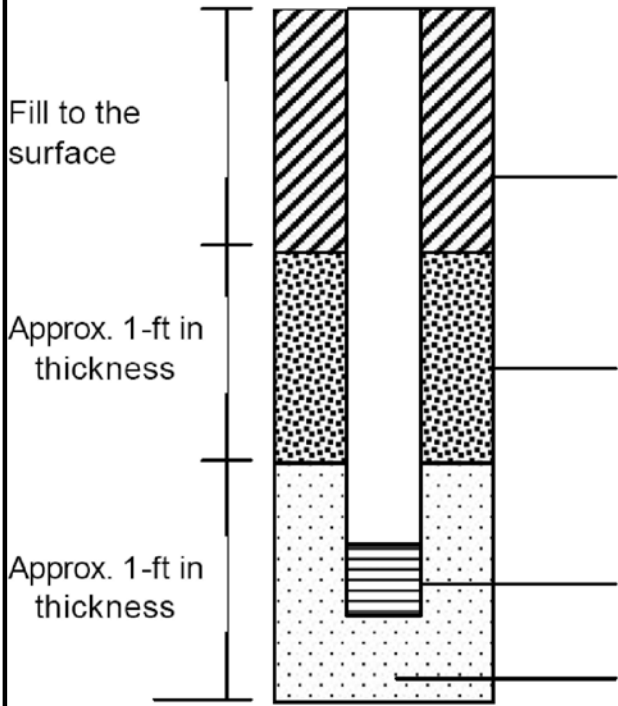


Soil Boring Location Map & Lead Concentrations

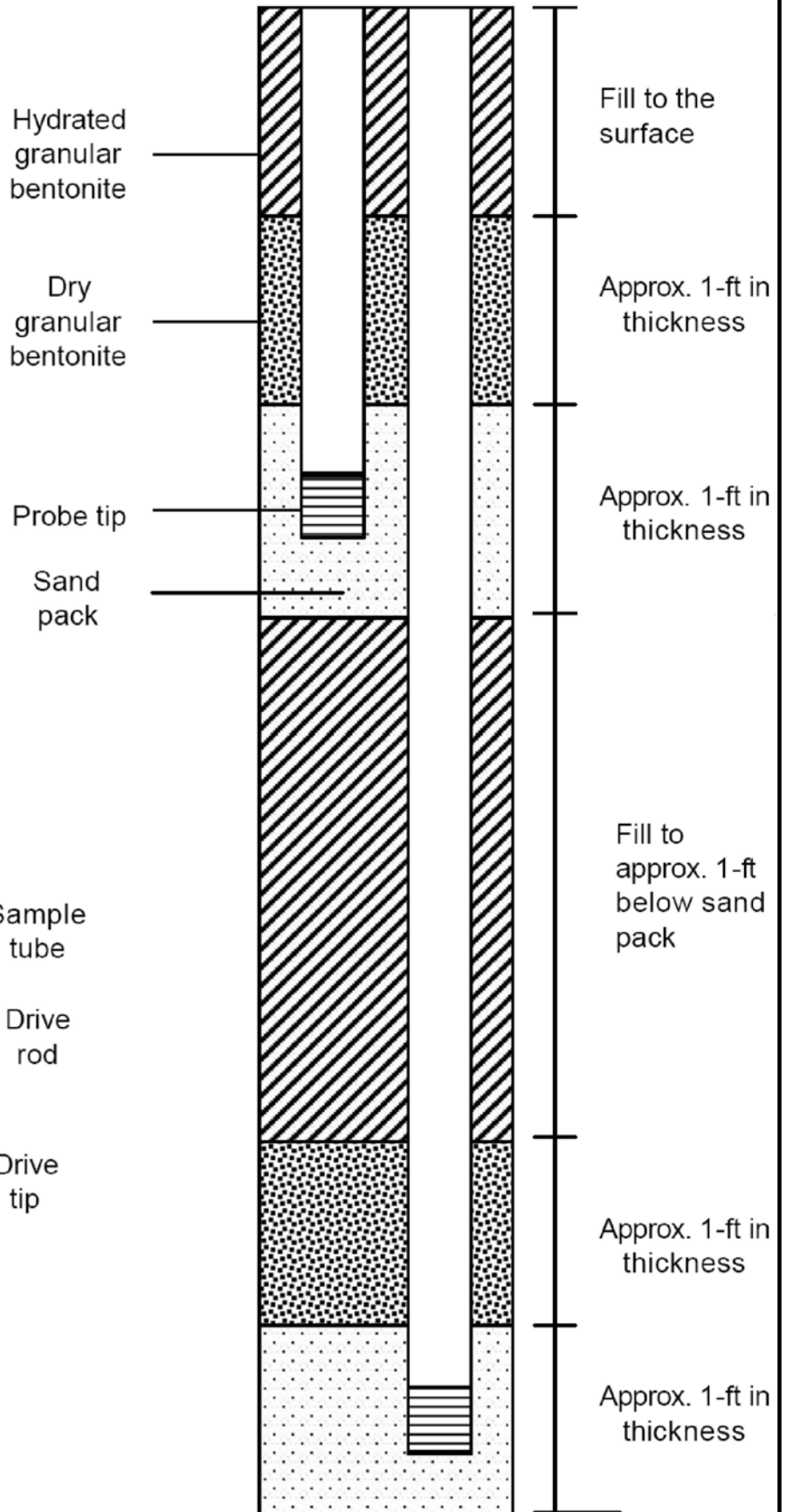
1228, 1232, and 1236 E. 17th Street, Oakland, California

Figure: 2
EIS Project: 1652-2
December 9, 2016

Permanent/Semi-permanent Gas Probe Construction Diagram

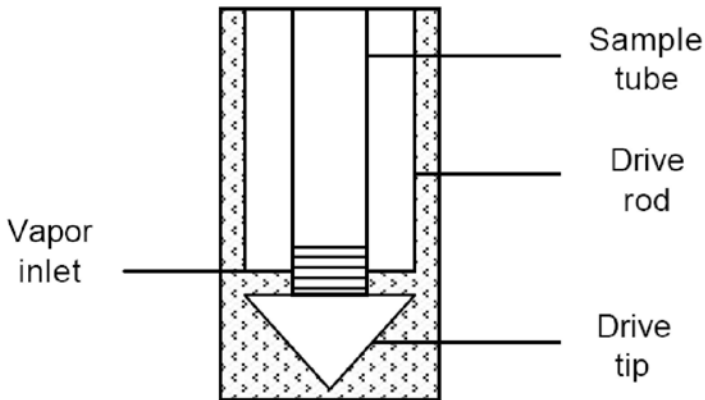


Multi-depth Gas Probe Construction Diagram



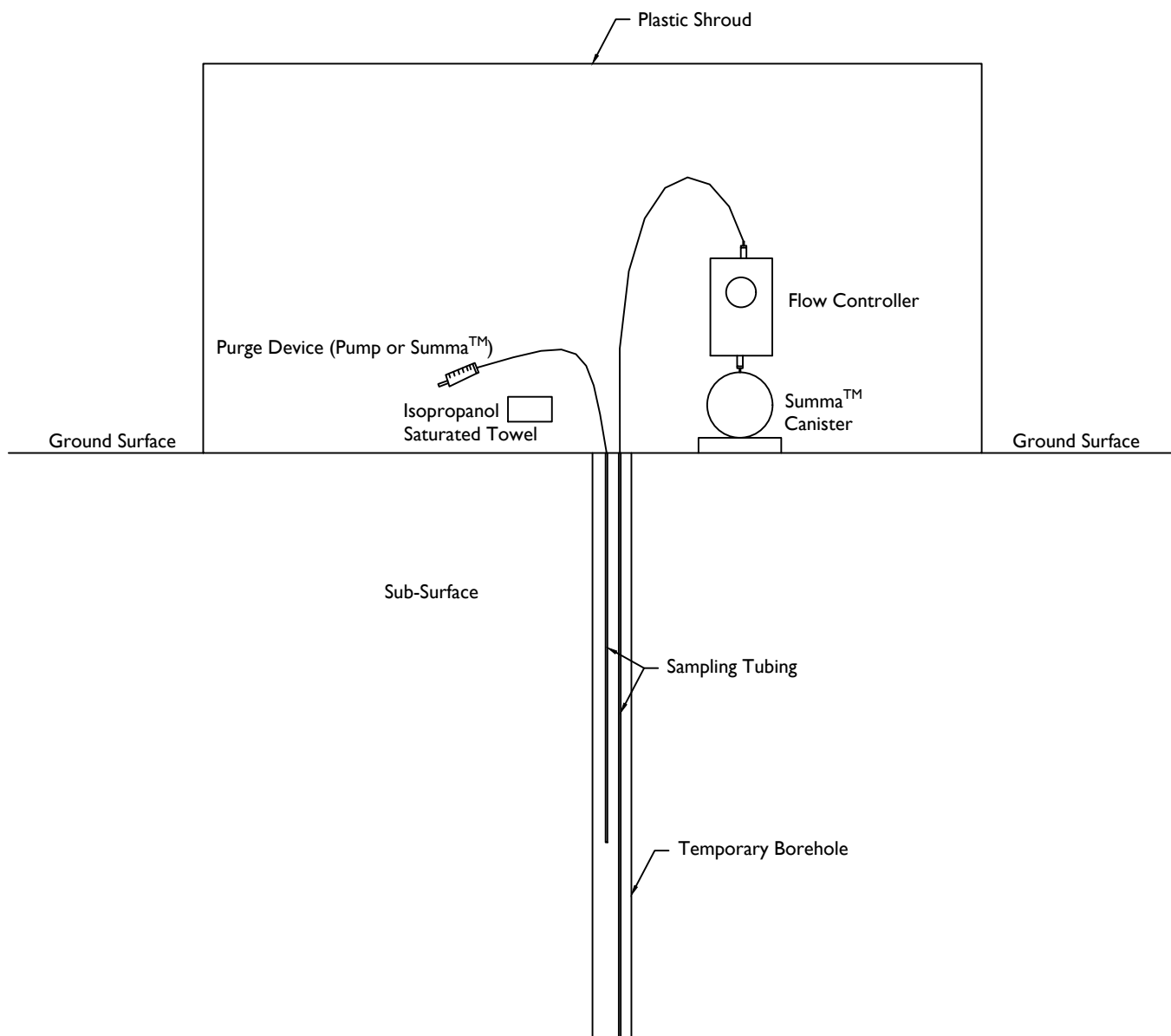
Temporary Gas Probe Method

To Surface



Note: Probes are not drawn to scale. Total depths are to be determined in the field.





Drawing Not to Scale

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Soil Vapor Probe Sampling Train Schematic Diagram

1228-1236 E. 17th Street
 Oakland, California

Figure: 4
 EIS Project: 1652-2
 December 9, 2016

ATTACHMENT A – BORING LOGS



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	Permit # W2016-0789
REVIEWED BY: PG	DATE: 11/17/2016

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-1 @0.5'	10:05	3/3		SP	•••••	Gravelly SAND; 10YR 7/3, very pale brown; 20% GRAVEL, fine to coarse, angular; medium dense; poorly-graded; damp
1.0								
2.0								
3.0		SB-1 @3'	10:05					Total depth = 3 ft.
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-3 @0.5'	10:10	2.5/3.0		CL		Silty CLAY; 10YR 4/2, dark grayish brown; 20% SILT; 10% SAND, fine; stiff; medium plasticity; damp
1.0								
2.0								
3.0		SB-3 @3'	10:10					Total depth = 3 ft.
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

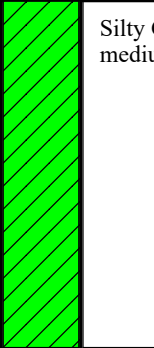
DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-3 @0.5'	10:10	2.5/3.0		CL		Silty CLAY; 10YR 4/2, dark grayish brown; 20% SILT; 10% SAND, fine; stiff; medium plasticity; damp
1.0								
2.0								
3.0		SB-3 @3'	10:10					Total depth = 3 ft.
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

Environmental Investigation Services, Inc.
 15951 Los Gatos Blvd, Suite 17
 Los Gatos, California 95032

Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-4 @0.5'	10:15	2.5/3.0		CL		Silty CLAY; 10YR 4/2, dark grayish brown; 20% SILT; 10% SAND, fine; stiff; medium plasticity; damp
1.0								
2.0								
3.0		SB-4 @3'	10:15					Total depth = 3 ft
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION		
0.0		SB-5 @0.5'	10:45	3/3		SP		Poorly-graded SAND, artificial fill; loose to medium dense; damp		
1.0						SM-SC		Silty SAND to clayey SAND; 10YR 2/2, very dark brown; 20% CLAY; 15% SILT; loose to medium dense; damp to moist		
2.0		SB-5 @3'	10:45							
3.0										Total depth = 3'
4.0										
5.0										
6.0										
7.0										
8.0										
9.0										
10.0										

Environmental Investigation Services, Inc.
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 Los Gatos, California 95032

Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2
 PROJECT NAME: **Oakland Housing Authority**
 LOCATION: **1236 E. 17th St., Oakland, CA**
 DRILLING COMPANY: ECA
 DRILLING METHOD: **GeoProbe 7822DT**
 LOGGED BY: **TS**
 REVIEWED BY: **PG**

BORING DIAMETER: **2 in.**
 TOTAL DEPTH: **3 ft.**
 STATIC WATER LEVEL (BGS): [-]
 FIRST GROUNDWATER ENCOUNTER: [-]
 SAMPLING EQUIPMENT: **Macro-Core**
 DATE: **11/17/2016**

Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-6 @0.5'	9:40	3/3		SM-SC		Silty SAND to clayey SAND; 10YR 2/2, very dark brown; 20% CLAY; 15% SILT; loose to medium dense; damp to moist
1.0								
2.0								
3.0		SB-6 @3'	9:40					Total depth = 3'
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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 Los Gatos, California 95032

Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-7 @0.5'	9:50	3/3		SM-SC		Silty SAND to clayey SAND; 10YR 2/2, very dark brown; 20% CLAY; 15% SILT; loose to medium dense; damp to moist
1.0								
2.0								
3.0		SB-7 @3'	9:50					Total depth = 3'
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-8 @0.5'	10:20	3/3		CL		Silty CLAY; 10YR 3/4, dark yellowish brown ; 20% SILT; medium plasticity; firm; damp
1.0								
2.0								
3.0		SB-8 @3'	10:20					Total depth = 3 ft.
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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 Los Gatos, California 95032

Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-9 @0.5'	10:00	3/3		SM		Silty SAND; 10YR 3/3, dark brown; 15% SILT; 10% CLAY; 10% GRAVEL; medium dense; damp
1.0								
2.0								
3.0		SB-9 @3'	10:00					Total depth = 3 ft
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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 Los Gatos, California 95032

Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-10 @0.5'	9:45	3/3		SM		Silty SAND; 10YR 3/3, dark brown; 20% SILT; 10% CLAY; medium dense; damp
1.0								
2.0								
3.0		SB-10 @3'	9:45					Total depth = 3 ft
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-11 @0.5'	11:00	3/3		SM		Silty SAND; 10YR 2/2, very dark brown; 15% SILT; 10% CLAY; 5% GRAVEL; loose; damp to moist
1.0								
2.0								
3.0		SB-11 @3'	11:00					Total depth = 3 ft
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-12 @0.5'	10:50	2.5/3		SM	●●●●●●●●	Silty SAND; 10YR 3/3, dark brown; 15% SILT; 10% CLAY; 10% GRAVEL; medium dense; pieces of brick; damp
1.0								
2.0								
3.0		SB-12 @3'	10:50					Total depth = 3 ft
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	DATE: 11/17/2016
REVIEWED BY: PG	Permit # W2016-0789

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-13 @0.5'	10:25	3/3		SM		Silty SAND; 10YR 2/2, very dark brown; 15% SILT; 10% CLAY; 5% GRAVEL; loose; damp to moist
1.0			10:25					
2.0		SB-13 @3'						Total depth = 3 ft
3.0								
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

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Notes: Boring completed at 3 ft. depth. Dry on completion.



PROJECT NUMBER: 1652-2	BORING DIAMETER: 2 in.
PROJECT NAME: Oakland Housing Authority	TOTAL DEPTH: 3 ft.
LOCATION: 1236 E. 17th St., Oakland, CA	STATIC WATER LEVEL (BGS): [-]
DRILLING COMPANY: ECA	FIRST GROUNDWATER ENCOUNTER: [-]
DRILLING METHOD: GeoProbe 7822DT	SAMPLING EQUIPMENT: Macro-Core
LOGGED BY: TS	Permit # W2016-0789
REVIEWED BY: PG	DATE: 11/17/2016

DEPTH	SAMPLES	SAMPLE NUMBER	TIME	RECOVERY (FT/FT)	GROUNDWATER	SOIL TYPE	LITHOLOGY	DESCRIPTION
0.0		SB-14 @0.5'	10:40	3/3		SM		Silty SAND; 10YR 2/2, very dark brown; 15% SILT; 10% CLAY; 10% GRAVEL; loose; damp
1.0								
2.0								
3.0		SB-14 @3'	10:40					
4.0								Total depth = 3 ft
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								

Environmental Investigation Services, Inc.
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 Los Gatos, California 95032

Notes: Boring completed at 3 ft. depth. Dry on completion.



Environmental Investigation Services, Inc.

15951 Los Gatos Blvd, Suite# 17
 Los Gatos, California 95032
 Ph: (408) 402-9800 Fax: (408) 402-9830

Well Number

SV-1

TEMPORARY WELL LOG

Project Name: **Oakland Housing Authority**

Drilling Company: **ECA**

Site Location: **1236 E. 17th St., Oakland, CA**

Boring Dia: **2 inches**

Job Number: **1652-2**

Boring Depth: **10 ft.**

Dates Drilled: **11/17/16**

Permit # **W2016-0789**

Method of Drilling: **Geoprobe 7822DT**

Logged By: **TS**

Reviewed By: **PG**

Sampling Method: **Macro-Core**

∇ Water level during drilling : [-]

▼ Water level in completed well : [-]

Depth	Lithology	USCS	Soil Description	Sample Number	Boring Completion	Well Description
0		SP	Gravelly SAND; 10YR 7/3, very pale brown; 25% GRAVEL, fine to coarse, angular; medium dense; poorly-graded; trace organic matter; damp			Soil Vapor Tubing (Temporary)
-1						
-2						
-3						
-4		CL	Silty CLAY; 10YR 6/2, light brownish gray; stiff to hard; medium plasticity; damp to moist			Bentonite
-5						
-6		SP	SAND; 15% GRAVEL, rounded, fine; medium dense; poorly-graded; moist to nearly saturated			2/12 Sand Pack 5' Vapor Probe
-8						
-9		CL	Silty CLAY; 10YR 6/2, light brownish gray; stiff to hard; medium plasticity; damp to moist			Bentonite
-10			Total depth = 10'			10' Vapor Probe 2/12 Sand Pack

Notes: Boring completed at 10 ft. depth. Dry on completion. Soil vapor probes set at 5' & 10'. Backfilled with neat cement grout.



Environmental Investigation Services, Inc.

15951 Los Gatos Blvd, Suite# 17
 Los Gatos, California 95032
 Ph: (408) 402-9800 Fax: (408) 402-9830

Well Number

SV-2

TEMPORARY WELL LOG

Project Name: **Oakland Housing Authority**

Drilling Company: **ECA**

Site Location: **1236 E. 17th St., Oakland, CA**

Boring Dia: **2 inches**

Job Number: **1652-2**

Boring Depth: **10 ft.**

Dates Drilled: **11/17/16** Permit # **W2016-0789**

Method of Drilling: **Geoprobe 7822DT**

Logged By: **TS**

Reviewed By: **PG**

Sampling Method: **Macro-Core**

∇ Water level during drilling : [-]

▼ Water level in completed well : [-]

Depth	Lithology	USCS	Soil Description	Sample Number	Boring Completion	Well Description
0		CL	Sandy CLAY; 10YR 4/2, dark grayish brown; 20% SAND, fine to coarse; 15% SILT; soft to firm; medium plasticity; moist			Soil Vapor Tubing (Temporary)
-1						
-2			Sandy CLAY w/ gravel; 10YR 5/2, grayish brown; 15% SAND, fine to coarse; 10% GRAVEL; firm to stiff; damp to moist			Bentonite
-3						
-4			Sandy CLAY; 10YR 4/2, dark grayish brown; 45% SAND, fine to coarse; soft to firm; low plasticity; damp to moist			2/12 Sand Pack 5' Vapor Probe
-5						
-6			Silty CLAY; 10YR 5/4, yellowish brown; 20% SILT; 10% SAND, fine; stiff; high plasticity; moist			
-7						
-8						Bentonite
-9						
-10			Total depth = 10'			10' Vapor Probe 2/12 Sand Pack

Notes: Boring completed at 10 ft. depth. Dry on completion. Soil vapor probes set at 5' & 10'. Backfilled with neat cement grout.

ATTACHMENT B – LABORATORY ANALYTICAL REPORTS AND
CHAIN OF CUSTODY DOCUMENTS



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1611A19 A

Report Created for: Environmental Investigation Services, Inc.

15951 Los Gatos Blvd., Suite 17
Los Gatos, CA 95032

Project Contact: Peter Littman

Project P.O.:

Project Name: 1652-2; OHA

Project Received: 11/21/2016

Analytical Report reviewed & approved for release on 12/07/2016 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: Environmental Investigation Services, Inc.
Project: 1652-2; OHA
WorkOrder: 1611A19

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

a3 sample diluted due to high organic content.



Glossary of Terms & Qualifier Definitions

Client: Environmental Investigation Services, Inc.
Project: 1652-2; OHA
WorkOrder: 1611A19

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F13 Indigenous sample results too high for a representative matrix spike analysis.



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 12/1/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1@3	1611A19-002A	Soil	11/17/2016 10:05	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	4.0	0.50	1	12/02/2016 12:59

Surrogates	REC (%)	Limits
Terbium	114	70-130

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2@3	1611A19-004A	Soil	11/17/2016 09:35	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	5.8	0.50	1	12/02/2016 13:05

Surrogates	REC (%)	Limits
Terbium	112	70-130

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3@3	1611A19-006A	Soil	11/17/2016 10:10	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	53	0.50	1	12/02/2016 13:11

Surrogates	REC (%)	Limits
Terbium	111	70-130

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4@3	1611A19-008A	Soil	11/17/2016 10:15	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	5.3	0.50	1	12/02/2016 13:17

Surrogates	REC (%)	Limits
Terbium	112	70-130

Analyst(s): MIG

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 12/1/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5@3	1611A19-010A	Soil	11/17/2016 10:45	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	29	0.50	1	12/01/2016 22:41

Surrogates	REC (%)	Limits
Terbium	103	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6@3	1611A19-012A	Soil	11/17/2016 09:40	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	110	0.50	1	12/01/2016 22:47

Surrogates	REC (%)	Limits
Terbium	108	70-130

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7@3	1611A19-014A	Soil	11/17/2016 09:50	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	660	5.0	10	12/02/2016 09:39

Surrogates	REC (%)	Limits
Terbium	87	70-130

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8@3	1611A19-016A	Soil	11/17/2016 10:20	ICP-MS3	130591

Analytes	Result	RL	DF	Date Analyzed
Lead	95	0.50	1	12/01/2016 23:18

Surrogates	REC (%)	Limits
Terbium	104	70-130

Analyst(s): DB

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 12/1/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-9@3	1611A19-018A	Soil	11/17/2016 10:00	ICP-MS3	130599

Analytes	Result	RL	DF	Date Analyzed
Lead	960	5.0	10	12/02/2016 09:45

Surrogates	REC (%)	Limits
Terbium	107	70-130

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10@3	1611A19-020A	Soil	11/17/2016 09:45	ICP-MS3	130599

Analytes	Result	RL	DF	Date Analyzed
Lead	2100	5.0	10	12/07/2016 11:59

Surrogates	REC (%)	Limits
Terbium	116	70-130

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-11@3	1611A19-022A	Soil	11/17/2016 11:00	ICP-MS3	130599

Analytes	Result	RL	DF	Date Analyzed
Lead	1800	5.0	10	12/02/2016 09:52

Surrogates	REC (%)	Limits
Terbium	107	70-130

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-12@3	1611A19-024A	Soil	11/17/2016 10:50	ICP-MS3	130599

Analytes	Result	RL	DF	Date Analyzed
Lead	110	0.50	1	12/01/2016 23:36

Surrogates	REC (%)	Limits
Terbium	102	70-130

Analyst(s): DB

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 12/1/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-13@3	1611A19-026A	Soil	11/17/2016 10:25	ICP-MS3	130599

Analytes	Result	RL	DF	Date Analyzed
Lead	99	0.50	1	12/01/2016 23:43

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	99	70-130	12/01/2016 23:43

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-14@3	1611A19-028A	Soil	11/17/2016 10:40	ICP-MS3	130599

Analytes	Result	RL	DF	Date Analyzed
Lead	1700	5.0	10	12/02/2016 10:04

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	106	70-130	12/02/2016 10:04

Analyst(s): BBO



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 12/1/16
Date Analyzed: 12/1/16
Instrument: ICP-MS2
Matrix: Soil
Project: 1652-2; OHA

WorkOrder: 1611A19
BatchID: 130591
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-130591
 1612001-019AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	49.5	0.50	50	-	99	75-125
Surrogate Recovery							
Terbium	515	528		500	103	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	55.9	56.0	50	3.291	105	105	75-125	0	20
Surrogate Recovery									
Terbium	555	554	500		111	111	70-130	0	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	3.35	3.291	1.79	-

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

(Cont.)



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 12/1/16
Date Analyzed: 12/1/16 - 12/2/16
Instrument: ICP-MS3
Matrix: Soil
Project: 1652-2; OHA

WorkOrder: 1611A19
BatchID: 130599
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-130599
 1611A19-028AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	48.5	0.50	50	-	97	75-125
Surrogate Recovery							
Terbium	530	544		500	106	109	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	1170	2110	50	1730	0,F13	758,F13	75-125	NA	20
Surrogate Recovery									
Terbium	466	540	500		93	108	70-130	14.7	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	1620	1730	6.36	20

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

WorkOrder: 1611A19 A **ClientCode:** EISI

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to: Peter Littman **Bill to:** Barbara
 Environmental Investigation Services, Inc. Env. Investigation Svcs., Inc.
 15951 Los Gatos Blvd., Suite 17 15951 Los Gatos Blvd., Suite 17
 Los Gatos, CA 95032 Los Gatos, CA 95032
 (408) 871-1470 FAX: (408) 871-1520 barbara@eis1.net
Email: plittman@eis1.net; tyler@eis1.net; diana@eis1.net
ProjectNo: 1652-2; OHA

Requested TAT: 5 days;

Date Received: 11/21/2016
Date Logged: 11/21/2016
Date Add-On: 11/30/2016

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			
1611A19-002	SB-1@3	Soil	11/17/2016 10:05	<input type="checkbox"/>	A														
1611A19-004	SB-2@3	Soil	11/17/2016 09:35	<input type="checkbox"/>	A														
1611A19-006	SB-3@3	Soil	11/17/2016 10:10	<input type="checkbox"/>	A														
1611A19-008	SB-4@3	Soil	11/17/2016 10:15	<input type="checkbox"/>	A														
1611A19-010	SB-5@3	Soil	11/17/2016 10:45	<input type="checkbox"/>	A														
1611A19-012	SB-6@3	Soil	11/17/2016 09:40	<input type="checkbox"/>	A														
1611A19-014	SB-7@3	Soil	11/17/2016 09:50	<input type="checkbox"/>	A														
1611A19-016	SB-8@3	Soil	11/17/2016 10:20	<input type="checkbox"/>	A														
1611A19-018	SB-9@3	Soil	11/17/2016 10:00	<input type="checkbox"/>	A														
1611A19-020	SB-10@3	Soil	11/17/2016 09:45	<input type="checkbox"/>	A														
1611A19-022	SB-11@3	Soil	11/17/2016 11:00	<input type="checkbox"/>	A														
1611A19-024	SB-12@3	Soil	11/17/2016 10:50	<input type="checkbox"/>	A														
1611A19-026	SB-13@3	Soil	11/17/2016 10:25	<input type="checkbox"/>	A														
1611A19-028	SB-14@3	Soil	11/17/2016 10:40	<input type="checkbox"/>	A														

Test Legend:

1	PBMS_TTLC_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Alexandra Iniguez
Add-On Prepared By: Maria Venegas

Comments: Samples off HOLD 11/30/16 STAT.

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.



McC Campbell 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

WORK ORDER SUMMARY

Client Name: ENVIRONMENTAL INVESTIGATION SERVICES, **Project:** 1652-2; OHA

Work Order: 1611A19

Client Contact: Peter Littman

QC Level: LEVEL 2

Contact's Email: plittman@eis1.net; tyler@eis1.net; diana@eis1.net

Comments: Samples off HOLD 11/30/16 STAT.

Date Logged: 11/21/2016

Date Add-On: 11/30/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611A19-002A	SB-1@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:05	5 days		<input type="checkbox"/>	
1611A19-004A	SB-2@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 9:35	5 days		<input type="checkbox"/>	
1611A19-006A	SB-3@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:10	5 days		<input type="checkbox"/>	
1611A19-008A	SB-4@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:15	5 days		<input type="checkbox"/>	
1611A19-010A	SB-5@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:45	5 days		<input type="checkbox"/>	
1611A19-012A	SB-6@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 9:40	5 days		<input type="checkbox"/>	
1611A19-014A	SB-7@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 9:50	5 days		<input type="checkbox"/>	
1611A19-016A	SB-8@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:20	5 days		<input type="checkbox"/>	
1611A19-018A	SB-9@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:00	5 days		<input type="checkbox"/>	
1611A19-020A	SB-10@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 9:45	5 days		<input type="checkbox"/>	
1611A19-022A	SB-11@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 11:00	5 days		<input type="checkbox"/>	
1611A19-024A	SB-12@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:50	5 days		<input type="checkbox"/>	
1611A19-026A	SB-13@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:25	5 days		<input type="checkbox"/>	
1611A19-028A	SB-14@3	Soil	SW6020 (Lead)	1	Acetate Liner	11/17/2016 10:40	5 days		<input type="checkbox"/>	

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.

1611A19



McCampbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mccampbell.com / main@mccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
GeoTracker EIDF PDF EDD Write On (DW) EQUIS 10 DAY
Effluent Sample Requiring "J" flag UST Clean Up Fund Project Claim # _____

Report To: Peter Littman / Emllyn Stokes **Bill To:** EIS, Inc.
Company: Environmental Investigation Services, Inc.
 15951 Los Gatos Blvd, Suite 17
 Los Gatos, CA 95032 **E-Mail:** emlyn@eis.net
Tele: (408) 402 9800 **Fax:** (408) 402 9800
Project #: 1652-2 **Project Name:** OHA
Project Location: 1236 E 7th St Oakland Purchase Order#
Sampler Signature: *[Signature]*

Analysis Request		Filter sample for DISSOLVED metals analysis
BTEX/MTBE & TPH as Gas (8015)		X
TPH as Diesel (8015)		
Total Petroleum Oil & Grease (1664 / 5520 E/R&F)		
Total Petroleum Hydrocarbons (418.1)		
EPA 505 / 608 / 8081 (CI Pesticides)		
EPA 608 / 8082 PCBs : Aroclors / Congeners		
EPA 507 / 8141 (NP Pesticides)		
EPA 515 / 8151 (Acidic CI Herbicides)		
BTEX/MTBE & TPH as Gas (8260)		
EPA 524.2 / 624 / 8260 (VOCs)		
EPA 525.2 / 625 / 8270 (SVOCs)		
EPA 8270 SIM / 8310 (PAHs / PNA)s		
CAN 17 Metals (200.7 / 200.8 / 6010 / 6020)		
LI/FT 5 Metals (200.7 / 200.8 / 6010 / 6020)		
Metals (200.7 / 200.8 / 6010 / 6020)		
Filter sample for DISSOLVED metals analysis		

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX									METHOD PRESERVED					
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL		HNO ₃	Other			
SB-100.5'		11/16	10:15	1															
SB-103'			10:05																
SB-200.5'			9:35																
SB-203'			9:35																
SB-300.5'			10:10																
SB-303'			10:10																
SB-400.5'			10:15																
SB-403'			10:15																
SB-500.5'			10:45																
SB-503'			10:45																
SB-600.5'			9:40																

**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.

Relinquished By: <i>[Signature]</i>	Date: 11/16	Time: 12:23	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 11/21	Time: 17:10	Received By: <i>[Signature]</i>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____

COMMENTS:
 ICE# 5-2
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB
 Samples off Hold 11/30/16
 STAT
 PRESERVATION _____ VOAS O&G METALS OTHER HAZARDOUS:
 pH<2 _____

1011A19

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY 10 DAY
 GeoTracker EIDF PDF EDID Write On (DW) EQUIS
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project Claim # _____

Analysis Request

TPH as Diesel (8015)	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 505 / 608 / 8081 (CI Pesticides)	
EPA 608 / 8082 PCB's: Aroclors / Congeners	
EPA 507 / 8141 (NP Pesticides)	
EPA 515 / 8151 (Acidic CI Herbicides)	
BTEX/MTBE & TPH as Gas (8260)	
EPA 524.2 / 624 / 8260 (VOCs)	
EPA 525.2 / 625 / 8270 (SVOCs)	
EPA 8270 SIM / 8310 (PAHs / PNAS)	
CAN 17 Metals (200.7 / 200.8 / 6010 / 6020)	
L.U.F.T 5 Metals (200.7 / 200.8 / 6010 / 6020)	
Metals (200.7 / 200.8 / 6010 / 6020)	
Filter sample for DISSOLVED metals analysis	
Lead (4010) <i>6020</i>	<input checked="" type="checkbox"/>
<i>Organohalogen Pesticides (8081)</i>	<input checked="" type="checkbox"/>

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED						
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Air	Sludge	Other	HCL	HNO ₃	Other				
SB-603'		11/17/16	9:40	1														
SB-700.5'			9:50	1														
SB-703'			9:50	1														
SB-800.5'			10:20	1														
SB-803'			10:20	1														
SB-900.5'			10:00	1														
SB-903'			10:00	1														
SB-1000.5'			9:45	1														
SB-1003'			9:45	1														
SB-1100.5'			11:00	1														
SB-1103'			11:00	1														

**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 \$750 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.

Relinquished By: <i>[Signature]</i>	Date: 11/17/16	Time: 11:00	Received By: <i>[Signature]</i>	Time: 12:45
Relinquished By: <i>[Signature]</i>	Date: 11/21	Time: 17:00	Received By: <i>[Signature]</i>	Time: 17:00
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Time: _____

ICEP: _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS PRESERVED IN LAB _____
 PRESERVATION _____ VOAS O&G METALS OTHER HAZARDOUS: _____ pH <2 _____

11/30/2016

Mr. Emlyn Stokes

Environmental Investigation Services, Inc.

15951 Los Gatos Blvd

Suite 17

Los Gatos CA 95032

Project Name: OHA

Project #: 1652-2

Workorder #: 1611361A

Dear Mr. Emlyn Stokes

The following report includes the data for the above referenced project for sample(s) received on 11/18/2016 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Rachel Selenis

Project Manager

WORK ORDER #: 1611361A

Work Order Summary

CLIENT:	Mr. Emlyn Stokes Environmental Investigation Services, Inc. 15951 Los Gatos Blvd Suite 17 Los Gatos, CA 95032	BILL TO:	Mr. Emlyn Stokes Environmental Investigation Services, Inc. 15951 Los Gatos Blvd Suite 17
PHONE:	408-402-9800	P.O. #	
FAX:	408-402-9830	PROJECT #	1652-2 OHA
DATE RECEIVED:	11/18/2016	CONTACT:	Rachel Selenis
DATE COMPLETED:	11/30/2016		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SV-1@5'	TO-15	2 "Hg	15 psi
04A	SV-2@5'	TO-15	1.8 "Hg	14.8 psi
05A(cancelled)	SV-2@10'	TO-15	27.6 "Hg	14.5 psi
06A	Lab Blank	TO-15	NA	NA
07A	CCV	TO-15	NA	NA
08A	LCS	TO-15	NA	NA
08AA	LCSD	TO-15	NA	NA

CERTIFIED BY: 
 Technical Director

DATE: 11/30/16

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
Environmental Investigation Services, Inc.
Workorder# 1611361A

Three 1 Liter Summa Canister samples were received on November 18, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

Sample SV-2@10' was received with significant vacuum remaining in the canister. The client was notified and requested the sample be cancelled.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SV-1@5'

Lab ID#: 1611361A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.1	5.0	2.4	11
Ethanol	4.3	7.2	8.1	14
Acetone	11	18	26	42
Hexane	1.1	39	3.8	140
2-Butanone (Methyl Ethyl Ketone)	4.3	5.9	13	17
Cyclohexane	1.1	2.1	3.7	7.2
Benzene	1.1	1.7	3.4	5.4
Heptane	1.1	1.8	4.4	7.4
Toluene	1.1	5.3	4.1	20
Ethyl Benzene	1.1	1.8	4.7	8.0
m,p-Xylene	1.1	6.5	4.7	28
o-Xylene	1.1	2.3	4.7	10

Client Sample ID: SV-2@5'

Lab ID#: 1611361A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.1	4.3	2.4	9.6
Ethanol	4.3	8.2	8.0	15
Acetone	11	54	25	130
Carbon Disulfide	4.3	4.6	13	14
Hexane	1.1	34	3.8	120
2-Butanone (Methyl Ethyl Ketone)	4.3	13	12	39
Tetrahydrofuran	1.1	1.6	3.1	4.6
Cyclohexane	1.1	1.1	3.7	3.7
Benzene	1.1	1.4	3.4	4.5
Heptane	1.1	1.4	4.4	5.6
Toluene	1.1	11	4.0	41
Ethyl Benzene	1.1	1.1	4.6	4.9
m,p-Xylene	1.1	3.8	4.6	16
o-Xylene	1.1	1.4	4.6	6.2



Air Toxics

Client Sample ID: SV-1@5'

Lab ID#: 1611361A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112208	Date of Collection:	11/17/16 11:29:00 A
Dil. Factor:	2.16	Date of Analysis:	11/22/16 05:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	5.0	2.4	11
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Ethanol	4.3	7.2	8.1	14
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	11	18	26	42
2-Propanol	4.3	Not Detected	11	Not Detected
Carbon Disulfide	4.3	Not Detected	13	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	39	3.8	140
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	5.9	13	17
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Cyclohexane	1.1	2.1	3.7	7.2
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	1.7	3.4	5.4
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	1.8	4.4	7.4
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	5.3	4.1	20
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected



Air Toxics

Client Sample ID: SV-1@5'

Lab ID#: 1611361A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112208	Date of Collection:	11/17/16 11:29:00 A
Dil. Factor:	2.16	Date of Analysis:	11/22/16 05:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	1.8	4.7	8.0
m,p-Xylene	1.1	6.5	4.7	28
o-Xylene	1.1	2.3	4.7	10
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: SV-2@5'

Lab ID#: 1611361A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112209	Date of Collection:	11/17/16 11:42:00 A
Dil. Factor:	2.13	Date of Analysis:	11/22/16 06:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.4	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
1,3-Butadiene	1.1	4.3	2.4	9.6
Bromomethane	11	Not Detected	41	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Ethanol	4.3	8.2	8.0	15
Freon 113	1.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Acetone	11	54	25	130
2-Propanol	4.3	Not Detected	10	Not Detected
Carbon Disulfide	4.3	4.6	13	14
3-Chloropropene	4.3	Not Detected	13	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	15	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Hexane	1.1	34	3.8	120
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	13	12	39
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.1	1.6	3.1	4.6
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Cyclohexane	1.1	1.1	3.7	3.7
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	1.4	3.4	4.5
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Heptane	1.1	1.4	4.4	5.6
Trichloroethene	1.1	Not Detected	5.7	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
Bromodichloromethane	1.1	Not Detected	7.1	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	11	4.0	41
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	Not Detected	7.2	Not Detected
2-Hexanone	4.3	Not Detected	17	Not Detected



Air Toxics

Client Sample ID: SV-2@5'

Lab ID#: 1611361A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112209	Date of Collection:	11/17/16 11:42:00 A
Dil. Factor:	2.13	Date of Analysis:	11/22/16 06:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	1.1	4.6	4.9
m,p-Xylene	1.1	3.8	4.6	16
o-Xylene	1.1	1.4	4.6	6.2
Styrene	1.1	Not Detected	4.5	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
Propylbenzene	1.1	Not Detected	5.2	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.2	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	45	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1611361A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112205	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/22/16 12:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1611361A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112205	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	11/22/16 12:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1611361A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/16 10:01 AM

Compound	%Recovery
Freon 12	88
Freon 114	87
Chloromethane	86
Vinyl Chloride	80
1,3-Butadiene	82
Bromomethane	88
Chloroethane	81
Freon 11	89
Ethanol	82
Freon 113	87
1,1-Dichloroethene	85
Acetone	79
2-Propanol	84
Carbon Disulfide	79
3-Chloropropene	81
Methylene Chloride	82
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	78
Hexane	84
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	91
Tetrahydrofuran	86
Chloroform	86
1,1,1-Trichloroethane	90
Cyclohexane	83
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	92
Benzene	82
1,2-Dichloroethane	88
Heptane	91
Trichloroethene	87
1,2-Dichloropropane	87
1,4-Dioxane	93
Bromodichloromethane	92
cis-1,3-Dichloropropene	85
4-Methyl-2-pentanone	94
Toluene	95
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	80
Tetrachloroethene	82
2-Hexanone	89



Air Toxics

Client Sample ID: CCV

Lab ID#: 1611361A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/16 10:01 AM

Compound	%Recovery
Dibromochloromethane	85
1,2-Dibromoethane (EDB)	81
Chlorobenzene	84
Ethyl Benzene	89
m,p-Xylene	84
o-Xylene	92
Styrene	94
Bromoform	89
Cumene	89
1,1,2,2-Tetrachloroethane	86
Propylbenzene	88
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 1611361A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/16 10:26 AM

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	95	70-130
Chloromethane	93	70-130
Vinyl Chloride	86	70-130
1,3-Butadiene	83	70-130
Bromomethane	95	70-130
Chloroethane	89	70-130
Freon 11	94	70-130
Ethanol	77	70-130
Freon 113	89	70-130
1,1-Dichloroethene	91	70-130
Acetone	81	70-130
2-Propanol	88	70-130
Carbon Disulfide	85	70-130
3-Chloropropene	86	70-130
Methylene Chloride	85	70-130
Methyl tert-butyl ether	89	70-130
trans-1,2-Dichloroethene	87	70-130
Hexane	88	70-130
1,1-Dichloroethane	86	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	90	70-130
Tetrahydrofuran	89	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	96	70-130
2,2,4-Trimethylpentane	97	70-130
Benzene	86	70-130
1,2-Dichloroethane	90	70-130
Heptane	93	70-130
Trichloroethene	90	70-130
1,2-Dichloropropane	89	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	95	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	95	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	83	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	82	70-130
2-Hexanone	90	70-130

Client Sample ID: LCS

Lab ID#: 1611361A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/16 10:26 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	88	70-130
1,2-Dibromoethane (EDB)	83	70-130
Chlorobenzene	84	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	84	70-130
o-Xylene	93	70-130
Styrene	94	70-130
Bromoform	90	70-130
Cumene	88	70-130
1,1,2,2-Tetrachloroethane	84	70-130
Propylbenzene	90	70-130
4-Ethyltoluene	91	70-130
1,3,5-Trimethylbenzene	96	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	88	70-130
1,4-Dichlorobenzene	93	70-130
alpha-Chlorotoluene	98	70-130
1,2-Dichlorobenzene	92	70-130
1,2,4-Trichlorobenzene	111	70-130
Hexachlorobutadiene	111	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1611361A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/16 10:51 AM

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	90	70-130
Chloromethane	86	70-130
Vinyl Chloride	83	70-130
1,3-Butadiene	80	70-130
Bromomethane	90	70-130
Chloroethane	84	70-130
Freon 11	90	70-130
Ethanol	71	70-130
Freon 113	88	70-130
1,1-Dichloroethene	88	70-130
Acetone	76	70-130
2-Propanol	84	70-130
Carbon Disulfide	81	70-130
3-Chloropropene	82	70-130
Methylene Chloride	83	70-130
Methyl tert-butyl ether	85	70-130
trans-1,2-Dichloroethene	85	70-130
Hexane	86	70-130
1,1-Dichloroethane	84	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
cis-1,2-Dichloroethene	86	70-130
Tetrahydrofuran	84	70-130
Chloroform	89	70-130
1,1,1-Trichloroethane	90	70-130
Cyclohexane	85	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	94	70-130
Benzene	85	70-130
1,2-Dichloroethane	92	70-130
Heptane	95	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	90	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	95	70-130
cis-1,3-Dichloropropene	94	70-130
4-Methyl-2-pentanone	97	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	83	70-130
1,1,2-Trichloroethane	80	70-130
Tetrachloroethene	84	70-130
2-Hexanone	91	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1611361A-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a112204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 11/22/16 10:51 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	88	70-130
1,2-Dibromoethane (EDB)	82	70-130
Chlorobenzene	85	70-130
Ethyl Benzene	94	70-130
m,p-Xylene	84	70-130
o-Xylene	94	70-130
Styrene	95	70-130
Bromoform	91	70-130
Cumene	90	70-130
1,1,2,2-Tetrachloroethane	86	70-130
Propylbenzene	91	70-130
4-Ethyltoluene	91	70-130
1,3,5-Trimethylbenzene	97	70-130
1,2,4-Trimethylbenzene	96	70-130
1,3-Dichlorobenzene	90	70-130
1,4-Dichlorobenzene	95	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	93	70-130
1,2,4-Trichlorobenzene	115	70-130
Hexachlorobutadiene	114	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	105	70-130



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1611A19

Report Created for: Environmental Investigation Services, Inc.

15951 Los Gatos Blvd., Suite 17
Los Gatos, CA 95032

Project Contact: Peter Littman

Project P.O.:

Project Name: 1652-2; OHA

Project Received: 11/21/2016

Analytical Report reviewed & approved for release on 11/29/2016 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: Environmental Investigation Services, Inc.
Project: 1652-2; OHA
WorkOrder: 1611A19

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

a3 sample diluted due to high organic content.



Glossary of Terms & Qualifier Definitions

Client: Environmental Investigation Services, Inc.
Project: 1652-2; OHA
WorkOrder: 1611A19

Quality Control Qualifiers

F1 MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2 LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F13 Indigenous sample results too high for a representative matrix spike analysis.



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 11/21/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1@0.5	1611A19-001A	Soil	11/17/2016 10:05	GC40	130117

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0020	2	11/22/2016 22:52
a-BHC	ND	0.0020	2	11/22/2016 22:52
b-BHC	ND	0.0020	2	11/22/2016 22:52
d-BHC	ND	0.0020	2	11/22/2016 22:52
g-BHC	ND	0.0020	2	11/22/2016 22:52
Chlordane (Technical)	ND	0.050	2	11/22/2016 22:52
a-Chlordane	ND	0.0020	2	11/22/2016 22:52
g-Chlordane	ND	0.0020	2	11/22/2016 22:52
p,p-DDD	ND	0.0020	2	11/22/2016 22:52
p,p-DDE	ND	0.0020	2	11/22/2016 22:52
p,p-DDT	ND	0.0020	2	11/22/2016 22:52
Dieldrin	ND	0.0020	2	11/22/2016 22:52
Endosulfan I	ND	0.0020	2	11/22/2016 22:52
Endosulfan II	ND	0.0020	2	11/22/2016 22:52
Endosulfan sulfate	ND	0.0020	2	11/22/2016 22:52
Endrin	ND	0.0020	2	11/22/2016 22:52
Endrin aldehyde	ND	0.0020	2	11/22/2016 22:52
Endrin ketone	ND	0.0020	2	11/22/2016 22:52
Heptachlor	ND	0.0020	2	11/22/2016 22:52
Heptachlor epoxide	ND	0.0020	2	11/22/2016 22:52
Hexachlorobenzene	ND	0.020	2	11/22/2016 22:52
Hexachlorocyclopentadiene	ND	0.040	2	11/22/2016 22:52
Methoxychlor	ND	0.0020	2	11/22/2016 22:52
Toxaphene	ND	0.10	2	11/22/2016 22:52

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	73	70-130	11/22/2016 22:52

Analyst(s): SS

Analytical Comments: a3

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 11/21/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7@0,5	1611A19-013A	Soil	11/17/2016 09:50	GC40	130117

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0050	5	11/22/2016 23:30
a-BHC	ND	0.0050	5	11/22/2016 23:30
b-BHC	ND	0.0050	5	11/22/2016 23:30
d-BHC	ND	0.0050	5	11/22/2016 23:30
g-BHC	ND	0.0050	5	11/22/2016 23:30
Chlordane (Technical)	ND	0.12	5	11/22/2016 23:30
a-Chlordane	ND	0.0050	5	11/22/2016 23:30
g-Chlordane	ND	0.0050	5	11/22/2016 23:30
p,p-DDD	ND	0.0050	5	11/22/2016 23:30
p,p-DDE	ND	0.0050	5	11/22/2016 23:30
p,p-DDT	ND	0.0050	5	11/22/2016 23:30
Dieldrin	ND	0.0050	5	11/22/2016 23:30
Endosulfan I	ND	0.010	5	11/22/2016 23:30
Endosulfan II	ND	0.0050	5	11/22/2016 23:30
Endosulfan sulfate	ND	0.0050	5	11/22/2016 23:30
Endrin	ND	0.0050	5	11/22/2016 23:30
Endrin aldehyde	ND	0.0050	5	11/22/2016 23:30
Endrin ketone	ND	0.0050	5	11/22/2016 23:30
Heptachlor	ND	0.0050	5	11/22/2016 23:30
Heptachlor epoxide	ND	0.0050	5	11/22/2016 23:30
Hexachlorobenzene	ND	0.050	5	11/22/2016 23:30
Hexachlorocyclopentadiene	ND	0.10	5	11/22/2016 23:30
Methoxychlor	ND	0.020	5	11/22/2016 23:30
Toxaphene	ND	0.25	5	11/22/2016 23:30

Surrogates	REC (%)	Limits	Date Analyzed
Decachlorobiphenyl	73	70-130	11/22/2016 23:30

Analyst(s): SS

Analytical Comments: a3



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 11/21/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-1@0.5	1611A19-001A	Soil	11/17/2016 10:05	ICP-MS3	130124
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	27		0.50	1	11/22/2016 22:34
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	106		70-130		11/22/2016 22:34

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-2@0.5	1611A19-003A	Soil	11/17/2016 09:35	ICP-MS3	130124
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	110		0.50	1	11/22/2016 22:40
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	104		70-130		11/22/2016 22:40

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-3@0.5	1611A19-005A	Soil	11/17/2016 10:10	ICP-MS3	130124
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	1400		5.0	10	11/23/2016 23:49
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	98		70-130		11/23/2016 23:49

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-4@0.5	1611A19-007A	Soil	11/17/2016 10:15	ICP-MS3	130166
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	180		0.50	1	11/22/2016 22:52
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Terbium	106		70-130		11/22/2016 22:52

Analyst(s): MIG

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 11/21/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-5@0.5	1611A19-009A	Soil	11/17/2016 10:45	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	260	0.50	1	11/22/2016 22:58

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	108	70-130	11/22/2016 22:58

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-6@0.5	1611A19-011A	Soil	11/17/2016 09:40	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	500	5.0	10	11/23/2016 23:56

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	106	70-130	11/23/2016 23:56

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-7@0.5	1611A19-013A	Soil	11/17/2016 09:50	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	240	0.50	1	11/22/2016 23:11

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	104	70-130	11/22/2016 23:11

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-8@0.5	1611A19-015A	Soil	11/17/2016 10:20	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	920	5.0	10	11/24/2016 00:02

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	98	70-130	11/24/2016 00:02

Analyst(s): DVH

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 11/21/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-9@0.5	1611A19-017A	Soil	11/17/2016 10:00	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	220	0.50	1	11/22/2016 23:42

Surrogates	REC (%)	Limits
Terbium	99	70-130

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-10@0.5	1611A19-019A	Soil	11/17/2016 09:45	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	140	0.50	1	11/22/2016 23:48

Surrogates	REC (%)	Limits
Terbium	105	70-130

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-11@0.5	1611A19-021A	Soil	11/17/2016 11:00	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	68	0.50	1	11/22/2016 23:54

Surrogates	REC (%)	Limits
Terbium	100	70-130

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-12@0.5	1611A19-023A	Soil	11/17/2016 10:50	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	130	0.50	1	11/23/2016 00:00

Surrogates	REC (%)	Limits
Terbium	102	70-130

Analyst(s): MIG

(Cont.)



Analytical Report

Client: Environmental Investigation Services, Inc.
Date Received: 11/21/16 17:10
Date Prepared: 11/21/16
Project: 1652-2; OHA

WorkOrder: 1611A19
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-13@0.5	1611A19-025A	Soil	11/17/2016 10:25	ICP-MS3	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	160	0.50	1	11/23/2016 00:06

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	105	70-130	11/23/2016 00:06

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-14@0.5	1611A19-027A	Soil	11/17/2016 10:40	ICP-MS2	130166

Analytes	Result	RL	DF	Date Analyzed
Lead	220	0.50	1	11/22/2016 22:45

Surrogates	REC (%)	Limits	Date Analyzed
Terbium	109	70-130	11/22/2016 22:45

Analyst(s): DB



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 11/21/16
Date Analyzed: 11/22/16
Instrument: GC40
Matrix: Soil
Project: 1652-2; OHA

WorkOrder: 1611A19
BatchID: 130117
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg
Sample ID: MB/LCS-130117
 1611975-001AMS/MSD

QC Summary Report for SW8081A

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aldrin	ND	0.0500	0.0010	0.050	-	100	70-130
a-BHC	ND	-	0.0010	-	-	-	-
b-BHC	ND	-	0.0010	-	-	-	-
d-BHC	ND	-	0.0010	-	-	-	-
g-BHC	ND	0.0329	0.0010	0.050	-	66, F2	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	0.0474	0.0010	0.050	-	95	70-130
Dieldrin	ND	0.0491	0.0010	0.050	-	98	70-130
Endosulfan I	ND	-	0.0010	-	-	-	-
Endosulfan II	ND	-	0.0010	-	-	-	-
Endosulfan sulfate	ND	-	0.0010	-	-	-	-
Endrin	ND	0.0416	0.0010	0.050	-	83	70-130
Endrin aldehyde	ND	-	0.0010	-	-	-	-
Endrin ketone	ND	-	0.0010	-	-	-	-
Heptachlor	ND	0.0467	0.0010	0.050	-	93	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	0.0362	0.0373		0.050	73	75	70-130



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 11/21/16
Date Analyzed: 11/22/16
Instrument: GC40
Matrix: Soil
Project: 1652-2; OHA

WorkOrder: 1611A19
BatchID: 130117
Extraction Method: SW3550B
Analytical Method: SW8081A
Unit: mg/kg
Sample ID: MB/LCS-130117
 1611975-001AMS/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	0.0485	0.0479	0.050	ND	97	96	70-130	1.21	20
g-BHC	0.0316	0.0311	0.050	ND	63,F1	62,F1	70-130	1.53	20
p,p-DDT	0.0553	0.0552	0.050	0.008003	95	94	70-130	0.185	20
Dieldrin	0.0522	0.0513	0.050	0.004112	96	94	70-130	1.70	20
Endrin	0.0331	0.0337	0.050	ND	66,F1	67,F1	70-130	1.82	20
Heptachlor	0.0452	0.0451	0.050	ND	90	90	70-130	0	20
Surrogate Recovery									
Decachlorobiphenyl	0.0384	0.0381	0.050		77	76	70-130	0.924	20



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 11/18/16 - 11/21/16
Date Analyzed: 11/21/16 - 11/22/16
Instrument: ICP-MS2
Matrix: Soil
Project: 1652-2; OHA

WorkOrder: 1611A19
BatchID: 130124
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-130124
 1611876-029BMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	50.2	0.50	50	-	100	75-125
Surrogate Recovery							
Terbium	533	527		500	107	105	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	536	408	50	790	0,F13	0,F13	75-125	NA	20
Surrogate Recovery									
Terbium	551	556	500		110	111	70-130	0.777	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	752	790	4.81	20

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

(Cont.)



Quality Control Report

Client: Environmental Investigation Services, Inc.
Date Prepared: 11/21/16
Date Analyzed: 11/22/16 - 11/23/16
Instrument: ICP-MS2
Matrix: Soil
Project: 1652-2; OHA

WorkOrder: 1611A19
BatchID: 130166
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/Kg
Sample ID: MB/LCS-130166
 1611A19-027AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	49.1	0.50	50	-	98	75-125
Surrogate Recovery							
Terbium	534	532		500	107	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	311	286	50	220.8	180,F13	130,F13	75-125	8.35	20
Surrogate Recovery									
Terbium	507	516	500		101	103	70-130	1.92	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Lead	210	220.8	4.89	20

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1611A19 ClientCode: EISI

WaterTrax WriteOn EDF Excel Email HardCopy ThirdParty J-flag

Report to: Peter Littman
 Environmental Investigation Services, In
 15951 Los Gatos Blvd., Suite 17
 Los Gatos, CA 95032
 (408) 871-1470 FAX: (408) 871-1520

Bill to: Barbara
 Env. Investigation Svcs., Inc.
 15951 Los Gatos Blvd., Suite 17
 Los Gatos, CA 95032
 barbara@eis1.net

Requested TAT: 5 days;

Date Received: 11/21/2016
 Date Logged: 11/21/2016

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			
1611A19-001	SB-1@0.5	Soil	11/17/2016 10:05	<input type="checkbox"/>	A														
1611A19-003	SB-2@0.5	Soil	11/17/2016 09:35	<input type="checkbox"/>	A														
1611A19-005	SB-3@0.5	Soil	11/17/2016 10:10	<input type="checkbox"/>	A														
1611A19-007	SB-4@0.5	Soil	11/17/2016 10:15	<input type="checkbox"/>	A														
1611A19-009	SB-5@0.5	Soil	11/17/2016 10:45	<input type="checkbox"/>	A														
1611A19-011	SB-6@0.5	Soil	11/17/2016 09:40	<input type="checkbox"/>	A														
1611A19-013	SB-7@0.5	Soil	11/17/2016 09:50	<input type="checkbox"/>	A														
1611A19-015	SB-8@0.5	Soil	11/17/2016 10:20	<input type="checkbox"/>	A														
1611A19-017	SB-9@0.5	Soil	11/17/2016 10:00	<input type="checkbox"/>	A														
1611A19-019	SB-10@0.5	Soil	11/17/2016 09:45	<input type="checkbox"/>	A														
1611A19-021	SB-11@0.5	Soil	11/17/2016 11:00	<input type="checkbox"/>	A														
1611A19-023	SB-12@0.5	Soil	11/17/2016 10:50	<input type="checkbox"/>	A														
1611A19-025	SB-13@0.5	Soil	11/17/2016 10:25	<input type="checkbox"/>	A														
1611A19-027	SB-14@0.5	Soil	11/17/2016 10:40	<input type="checkbox"/>	A														

Test Legend:

1	8081_S	3	4
5		7	8
9		11	12

Prepared by: Alexandra Iniguez

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.



WORK ORDER SUMMARY

Client Name: ENVIRONMENTAL INVESTIGATION SERVICES, IN **Project:** 1652-2; OHA
Client Contact: Peter Littman
Contact's Email: plittman@eis1.net; emlyn@eis1.net; tyler@eis1.net **Comments:**

Work Order: 1611A19
QC Level: LEVEL 2
Date Logged: 11/21/2016

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611A19-001A	SB-1@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:05	5 days	<input type="checkbox"/>		
			SW8081A (OC Pesticides)			<input type="checkbox"/>		5 days	<input type="checkbox"/>		
1611A19-002A	SB-1@3	Soil		1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:05		<input checked="" type="checkbox"/>		
1611A19-003A	SB-2@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:35	5 days	<input type="checkbox"/>		
1611A19-004A	SB-2@3	Soil		1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:35		<input checked="" type="checkbox"/>		
1611A19-005A	SB-3@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:10	5 days	<input type="checkbox"/>		
1611A19-006A	SB-3@3	Soil		1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:10		<input checked="" type="checkbox"/>		
1611A19-007A	SB-4@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:15	5 days	<input type="checkbox"/>		
1611A19-008A	SB-4@3	Soil		1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:15		<input checked="" type="checkbox"/>		
1611A19-009A	SB-5@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:45	5 days	<input type="checkbox"/>		
1611A19-010A	SB-5@3	Soil		1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:45		<input checked="" type="checkbox"/>		
1611A19-011A	SB-6@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:40	5 days	<input type="checkbox"/>		
1611A19-012A	SB-6@3	Soil		1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:40		<input checked="" type="checkbox"/>		
1611A19-013A	SB-7@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:50	5 days	<input type="checkbox"/>		
			SW8081A (OC Pesticides)			<input type="checkbox"/>		5 days	<input type="checkbox"/>		
1611A19-014A	SB-7@3	Soil		1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:50		<input checked="" type="checkbox"/>		

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.



WORK ORDER SUMMARY

Client Name: ENVIRONMENTAL INVESTIGATION SERVICES, IN **Project:** 1652-2; OHA
Client Contact: Peter Littman
Contact's Email: plittman@eis1.net; emlyn@eis1.net; tyler@eis1.net **Comments:**

Work Order: 1611A19
QC Level: LEVEL 2
Date Logged: 11/21/2016

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative chlorinated	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1611A19-015A	SB-8@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:20	5 days	<input type="checkbox"/>		
1611A19-016A	SB-8@3	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:20	5 days	<input checked="" type="checkbox"/>		
1611A19-017A	SB-9@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:00	5 days	<input type="checkbox"/>		
1611A19-018A	SB-9@3	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:00	5 days	<input checked="" type="checkbox"/>		
1611A19-019A	SB-10@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:45	5 days	<input type="checkbox"/>		
1611A19-020A	SB-10@3	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 9:45	5 days	<input checked="" type="checkbox"/>		
1611A19-021A	SB-11@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 11:00	5 days	<input type="checkbox"/>		
1611A19-022A	SB-11@3	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 11:00	5 days	<input checked="" type="checkbox"/>		
1611A19-023A	SB-12@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:50	5 days	<input type="checkbox"/>		
1611A19-024A	SB-12@3	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:50	5 days	<input checked="" type="checkbox"/>		
1611A19-025A	SB-13@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:25	5 days	<input type="checkbox"/>		
1611A19-026A	SB-13@3	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:25	5 days	<input checked="" type="checkbox"/>		
1611A19-027A	SB-14@0.5	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:40	5 days	<input type="checkbox"/>		
1611A19-028A	SB-14@3	Soil	SW6020 (Lead)	1	Acetate Liner	<input type="checkbox"/>	11/17/2016 10:40	5 days	<input checked="" type="checkbox"/>		

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.



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

Report To: Peter Littman / Emlyn Stokes **Bill To: EIS, Inc.**

Company: Environmental Investigation Services, Inc.

15951 Los Gatos Blvd. Suite 17

Los Gatos, CA 95032

E-Mail: emlyn@eis1.net

Tele: (408) 402 9800 Fax: (408) 402 9800

Project #: 1652-2 Project Name: OHA

Project Location: 236 E 7th St, Oakland Purchase Order#

Sampler Signature: *[Signature]*

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX									METHOD PRESERVED									
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other								
SB-100.5'		11/16/10	10:05	1																			
SB-100.3'			10:05																				
SB-200.5'			9:35																				
SB-200.3'			9:35																				
SB-300.5'			10:10																				
SB-300.3'			10:10																				
SB-400.5'			10:15																				
SB-400.3'			10:15																				
SB-500.5'			10:45																				
SB-500.3'			10:45																				
SB-600.5'			9:40																				

**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.

Relinquished By: <i>[Signature]</i>	Date: 11/16/10	Time: 12:23	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 11/21	Time: 17:10	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:

ICE# 5-2
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB

HAZARDOUS: _____
 OTHER _____
 METALS _____
 O&G _____
 VOAS _____
 PH<2 _____
 PRESERVATION _____

COMMENTS:

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 # _____

Analysis Request	Result
BTEX/ MTBE & TPH as Gas (8021/ 8015)	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 505/ 608 / 8081 (CI Pesticides)	
EPA 608 / 8082 PCB's; Aroclors / Congeners	
EPA 507 / 8141 (NP Pesticides)	
EPA 515 / 8151 (Acidic CI Herbicides)	
BTEX/ MTBE & TPH as Gas (8260)	
EPA 524.2 / 624 / 8260 (VOCs)	
EPA 525.2 / 625 / 8270 (SVOCs)	
EPA 8270 SIM / 8310 (PAHs / PNAS)	
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	
LUFFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	
Metals (200.7 / 200.8 / 6010 / 6020)	
Filter sample for DISSOLVED metals analysis	
	X (Lead (6010B))
	X (Vogelbein Pesticides (8081))
	X HOLD
	X HOLD
	X HOLD
	X HOLD
	X HOLD
	X HOLD

1611A19

1611A19

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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: Peter Littman / Emlyn Stokes **Bill To:** EIS, Inc.
Company: Environmental Investigation Services, Inc.
 15951 Los Gatos Blvd. Suite 17
 Los Gatos, CA 95032 **E-Mail:** emlyn@eis1.net
Tele: (408) 402 9800 **Fax:** (408) 402 9800
Project #: 1652-2 **Project Name:** OHA
Project Location: 1236 E. 17th St. Oakland **Purchase Order#**
Sampler Signature: *[Signature]*

Analysis Request

TPH as Diesel (8015)	
TPH as Gas (8021/8015)	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 505/ 608 / 8081 (CI Pesticides)	
EPA 608 / 8082 PCB's; Aroclors / Congeners	
EPA 507 / 8141 (NP Pesticides)	
EPA 515 / 8151 (Acidic CI Herbicides)	
BTEX/ MTBE & TPH as Gas (8260)	
EPA 524.2 / 624 / 8260 (VOCs)	
EPA 525.2 / 625 / 8270 (SVOCs)	
EPA 8270 SEM / 8310 (PAHs / PNA's)	
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	
LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	
Metals (200.7 / 200.8 / 6010 / 6020)	
Filter sample for DISSOLVED metals analysis	
Lead (6010B)	X
Organochlorine Pesticides (8081)	HOLD
	X
	HOLD
	X
	HOLD
	X
	HOLD

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED						
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other				
SB-1200.5'		11/17/16	10:50	1															
SB-1203'			10:50																
SB-1300.5'			10:25																
SB-1303'			10:25																
SB-1400.5'			10:40																
SB-1403'			10:40																

**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.

Relinquished By: <i>[Signature]</i>	Date: 11/18/16	Time: 12:04	Received By: <i>[Signature]</i>	Time: 12:04
Relinquished By: <i>[Signature]</i>	Date: 11/21/16	Time: 1710	Received By: <i>[Signature]</i>	Time: 1710
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Time: _____

COMMENTS:

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

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



Sample Receipt Checklist

Client Name: **Environmental Investigation Services, Inc.**
 Project Name: **1652-2; OHA**
 WorkOrder No: **1611A19** Matrix: Soil
 Carrier: Benjamin Yslas (MAI Courier)

Date and Time Received: **11/21/2016 17:10**
 Date Logged: **11/21/2016**
 Received by: **Alexandra Iniguez**
 Logged by: **Alexandra Iniguez**

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 NA
 Sample/Temp Blank temperature Temp: 5.2°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:

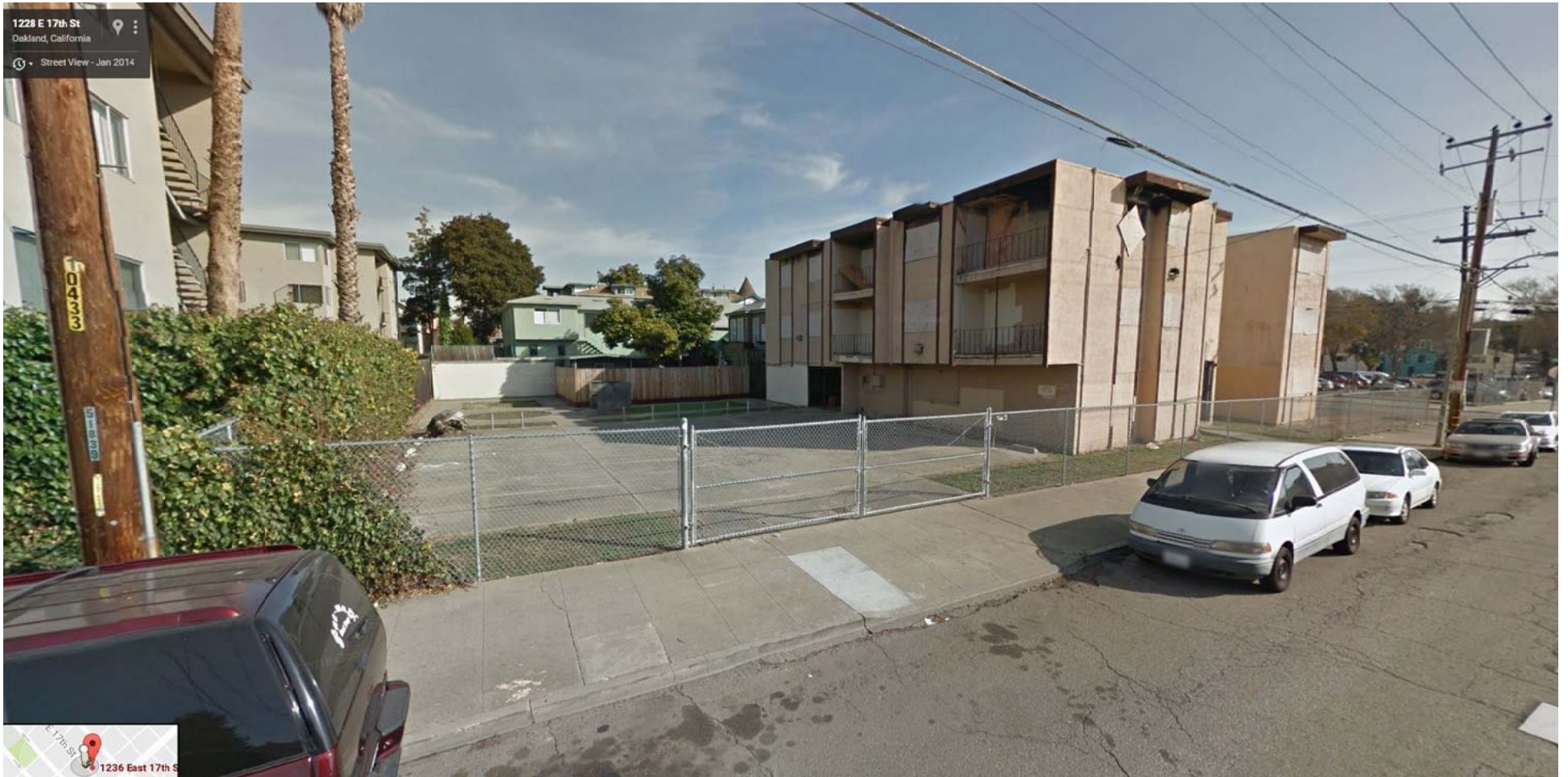
ATTACHMENT C – HISTORICAL PHOTOS OF SUBJECT PROPERTY



1. View of the subject property in July 2015 via Googlemaps.



2. View of the subject property in August 2014 via Googlemaps.



3. View of the subject property in January 2014 via Googlemaps.

ATTACHMENT D – ALAMEDA COUNTY PUBLIC WORKS AGENCY
PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency
—Alameda County—

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/09/2016 By jamesy

Permit Numbers: W2016-0789
Permits Valid from 11/17/2016 to 11/29/2016

Application Id: 1478203636324
Site Location: 1236 East 17th Street, Oakland

City of Project Site:Oakland

Project Start Date: 11/17/2016
Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

Completion Date:11/29/2016

Applicant: Environmental Investigation Services, Inc. -

Phone: 408-402-9800

Peter Littman
15951 Los Gatos Boulevard #17, Los Gatos, CA 95032
Velda / Last name: Goe Oakland Housing

Phone: 510-587-2145

Property Owner:

Authority Initiatives, Inc.
1801 Harrison Street, Oakland, CA 94612
Velda Oakland Housing Authority Initiatives, Inc.
1801 Harrison Street, Oakland, CA 94612

Phone: 510-587-2145

Client:

Contact:

Peter Littman

Phone: 408-402-9800
Cell: 408-402-9800

Receipt Number: WR2016-0546 Total Due: \$265.00
Payer Name : Peter Littman Total Amount Paid: \$265.00
Paid By: MC PAID IN FULL

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 16 Boreholes
Driller: Environmental Control Associates, Inc. - Lic #: 695970 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2016-0789	11/09/2016	02/15/2017	16	2.00 in.	10.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

Alameda County Public Works Agency - Water Resources Well Permit

5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
