

585 22nd Street, LLC

2030 Manzanita Dr.

Oakland, CA 94611

Matt Ticknor

415-990-6944

matt@sqftventures.com

Charles A. Long

775-742-9166

charlesalong@gmail.com

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Subject: Phase II Environmental Site Assessment

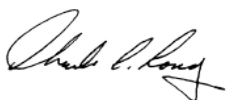
585 22nd Street

Oakland, California

Alameda County Department of Environmental Health

Case RO0003187

We declare, under penalty of perjury, that the information and/or recommendations contained in the attached report is true and correct to the best of our knowledge.



Charles A. Long  
Principal



Matt Ticknor  
Principal



## **Phase II Environmental Site Assessment**

585 22<sup>nd</sup> Street  
Oakland, California

AEC Project No. 15-120SD  
August 13, 2015

*Prepared For:*

SQFT Ventures, LLC  
1299 Lombard Street  
Suite 53  
San Francisco, California 94109

*Prepared By:*

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, California 92069  
Phone (760) 744-3363 • Fax (760) 744-3383

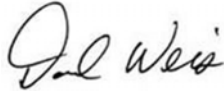
**Phase II Environmental Site Assessment**

**585 22<sup>nd</sup> Street  
Oakland, California**

On behalf of SQFT Ventures, LLC, Advantage Environmental Consultants, LLC (AEC) has prepared this *Phase II Environmental Site Assessment* for the above referenced property. This report was completed in accordance with the standards of care exercised by environmental professionals in the industry.

**PROJECT MANAGER CERTIFICATION**

I certify that the information contained in or included with this submittal is accurate and complete. This submittal and all attachments were prepared at my direction and in accordance with protocols designed to assure that qualified personnel gathered and evaluated the information submitted in accordance with the standards of care exercised by environmental professionals in the industry.



---

Daniel Weis, R.E.H.S.  
Branch Manager

**WORK PROGRAM CERTIFICATION**

This report presents the technical approach of AEC to investigate soil, soil gas and groundwater conditions at the subject property. This report has been completed in accordance with the standards of care exercised by environmental professionals in the industry.



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Todd Jacquay  
Project Manager



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Eric Cathcart, MS, PG  
Senior Geologist  
California PG#7548



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## **1.0 INTRODUCTION**

On behalf of SQFT Ventures, LLC, AEC has prepared this *Phase II Environmental Site Assessment* for the approximately 16,000 square foot property located at 585 22<sup>nd</sup> Street in Oakland, California (i.e. the Site). This assessment has been conducted in accordance with our proposal dated July 2, 2015.

### **1.1 Site Location and Description**

The Site is comprised of an approximately 16,000 square foot lot located at the physical address of 585 22<sup>nd</sup> Street, Oakland, California. The Site is further identified as Alameda County Assessor's Parcel Number 005-8-0647-028-04. The Site is an asphalt paved lot used for the parking of postal service vehicles. The majority of the Site is comprised of an asphalt paved parking lot. There is some minor landscaping at the Site.

During the course of the completion of a Phase I Environmental Site Assessment of the Site, it was revealed that portions of the Site were occupied by an engraving/plating facility business. In addition, AEC corresponded with Alameda County Environmental Health (ACEH) Local Oversight Program regarding a former leaking underground storage tank (LUST) case that was associated with the Site and previously closed under a commercial land use. AEC was informed by a County representative that if a change in land use of a property from commercial to residential is proposed, that the County would expect the Site owner, development proponent or other party to voluntarily work with the Department to have them review and approve the proposed change in land use relative to subsurface environmental conditions, and in particular related to potential vapor intrusion/human health risk based concerns that were not commonly evaluated during the closure of older LUST cases.

A Vicinity Map depicting the general location of the Site is included as Figure 1. A Site Plan depicting the general arrangement of the Site is included as Figure 2.

### **1.2 Proposed Site Use**

It is our understanding that SQFT Ventures, LLC intends to purchase the property for residential development which will consist of multiple apartment units constructed at existing or near existing grades.

### **1.3 Project Objective**

The objective of this assessment is to evaluate for the presence of contaminants of potential concern in soil, soil gas and groundwater at the Site and to evaluate such data relative to a proposed change in land use from commercial to residential.

## 2.0 FIELD INVESTIGATION

### 2.1 Soil, Soil Gas and Groundwater Sampling

On July 17, 2015, a total of six soil borings (identified as B1 through B6) were drilled at the Site using direct-push drilling technology. One soil boring, B5, was drilled to a total depth of 10-feet below ground surface (bgs). This boring was situated in the northeastern corner of the Site. The remaining soil borings, B1 through B4 and B6, were drilled to a total depth of 15-feet bgs. Soil samples were collected at depths of one-foot, three-feet, five-feet, ten-feet and fifteen-feet bgs in the soil borings B1 through B4 and B6. Soil samples were collected at depths of one-foot, three-feet, five-feet and ten-feet bgs in the soil boring B5. A total of 28 soil samples were collected during drilling activities. Soil gas samples were collected at depths of 5-feet and 10-feet bgs in soil borings B1, B3 and B4. Groundwater samples were collected from three of the soil borings (B1 through B3) at a depth of 15-feet bgs. Figure 2 is a Site Plan that depicts the locations of the soil borings drilled by AEC during this investigation. Soil Boring Logs are included in Appendix A of this report.

### 2.2 Preliminary Field Activities

The following tasks were performed prior to the commencement of field sampling activities:

- AEC representatives completed Site visits to evaluate existing conditions, feasibility of drill rig access, and for the purposes of optimizing the proposed soil boring locations.
- The locations of underground utilities in the vicinity of the sampling locations were evaluated for potential conflicts. In accordance with State law, AEC notified Underground Service Alert utility marking service at least 48 hours prior to the commencement of field sampling.
- A permit for the drilling of the proposed soil borings was procured with the Alameda County Public Works Agency.
- A Health and Safety Plan for the work was prepared and available onsite for use in keeping field personnel and subcontractors safe during drilling activities.
- All equipment used during the sampling events was inspected, pre-cleaned and decontaminated.
- All forms (i.e., logbook, chain-of-custody forms, etc.) used in the field were assembled.
- Sampling personnel reviewed the sampling protocols to be employed during the fieldwork activities. In addition, the Site Specific Health and Safety Plan (HSP) for the proposed work which outlined the chemical and physical hazards at the property was reviewed by AEC personnel and AEC's subcontractors prior to the commencement of field activities.

### 2.3 Soil Sampling Methodology

As stated previously, soil borings were drilled using truck-mounted direct-push sampling rigs. The direct-push sampling system uses a hydraulic hammer to advance a 2.5-inch O.D. rod equipped with a 2-inch O.D. discrete/closed piston sampler. Soil samples are collected at targeted sampling depths in the piston sampler, which is lined on the inside by a two-inch diameter by four-foot long acetate sleeve, by unlocking the drive tip and pushing through the soil. The acetate sleeve containing soil was then retrieved from the sampler, cut (in approximate six-inch sections), sealed at the ends with Teflon sheets and caps, labeled, and placed in individual Ziplock bags. The respective soil samples retained for laboratory analysis were then recorded onto chain-of-custody documentation and immediately placed into a chilled cooler and stored until transport to a California Department of Public Health-certified laboratory. Upon completion of drilling and soil sampling, the soil gas probes were installed as previously described.

During drilling activities, an organic vapor monitor was used to monitor the presence and level of undifferentiated organic vapors in the borings and to screen soil samples collected. The instrument was also used to screen for organic vapor in ambient air and the breathing zone of field personnel. A MiniRAE 2000 photoionization detector (PID) was used at the Site during the investigation activities. Precautions were taken to limit the contamination of samples from outside sources. Hands were washed with distilled water and soap, and rubber surgical gloves were used when handling soil samples and sampling equipment. Soil sampling equipment was decontaminated between uses by washing with a non-phosphate detergent solution followed by a triple distilled water rinse

## **2.4 Soil Gas Sampling Methodology**

Soil gas probe installation and sampling was conducted by Vironex of Concord, California, under the oversight of AEC on July 17, 2015. Soil gas probes were installed in borings B1, B3 and B4 at depths of 5-feet and 10-feet bgs, respectively. Boreholes were drilled using a truck-mounted direct-push drill rig. A 2.5-inch outer diameter (O.D.) steel rod and 2-inch O.D. piston sampler with drive tip was advanced through the soil to the total depth of each boring. The rod and sampler were then removed from the borehole, and 1/8-inch nylon tubing with a small airstone filter was inserted into the open borehole. The probe was gently lifted up from the bottom of the borehole and sand was poured down the borehole to encase the filter with a minimum of six inches of sand pack. Approximately six inches to one foot of dry granular bentonite was placed on top of the sand pack. The soil gas well was then completed to the surface with hydrated bentonite. The probe was allowed to set for at least two hours prior to sampling to allow the bentonite time to properly seal. A field representative then collected soil gas samples from each of the probes using a laboratory-provided evacuated Summa™ canister connected to the sampling tips of each probe. During the sampling, a leak-check compound was placed near and around the sample trains. Any trace of this compound detected in a given sample would indicate the intrusion of ambient air into the sampling train and invalidates the results of that sample.

Upon completion of soil gas sampling, the probes were removed from the boreholes. All soil borings drilled at the property were over-drilled and backfilled with bentonite chips or slurry and capped to match existing grades. Soil gas sampling and analysis were not conducted during or immediately following a significant rain event (more than ½-inch). The used tubing along with other non-hazardous wastes generated during the field activities were bagged and handled as miscellaneous solid waste. Soil gas samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (EPA) test Method TO-15 at an off-site stationary laboratory.

## **2.5 Groundwater Sampling Methodology**

Groundwater samples were collected using hydropunch technology. The groundwater samples were collected using an apparatus assembled with an expendable drive point, drive head, protective sheath, inner stainless steel screen and an O-ring seal. A drive rod is added to the top of the sampler and the entire assembly is driven into the subsurface to the appropriate sampling depth (approximately 5 feet in to the saturated zone). By adding a series of hardened steel, hollow drive rods, the sampler is advanced to the desired depth. Once the desired depth was achieved, extension rods were placed down the center of the drive rods to knock the expendable point loose and to hold the screen in position as the rods were retracted approximately four feet. The stainless steel screen was exposed to the aquifer and fills with groundwater. The groundwater was removed from the borehole using tubing which is inserted down the center of the rods into the stainless steel screen sampler and extracted using a check valve. The groundwater samples were dispensed directly into appropriate containers with added preservatives provided by the analytical laboratory.

## 2.6 Analytical Laboratories and Methods

Analytical laboratories utilized during the completion of this subsurface investigation are listed below:

<b>Analytical Laboratory</b>	<b>United States Environmental Protection Agency (EPA) Analytical Methods</b>
H&P Mobile Geochemistry, Inc. – Carlsbad, CA – Soil Gas Analytical Laboratory	VOCs – EPA Method TO-15
American Environmental Testing Laboratory Inc. (AETL) - Burbank, CA - Stationary Analytical Laboratory (soil and groundwater)	Title 22 Metals – EPA Method 6010B/7471A STLC and TCLP VOCs – EPA Method 8260B
EMLab Pak – Arvada, CO – Stationary Analytical Laboratory (soil)	Asbestos - Polarized Light Microscopy



### 3.0 INVESTIGATION RESULTS AND DISCUSSION

#### 3.1 Soil Analytical Results

Six of the twenty-eight soil samples were analyzed for VOCs. VOCs were not detected in any of the samples analyzed for this constituent. In addition, twelve soil samples were analyzed for asbestos. Asbestos was not detected in any of the samples analyzed for this constituent. A summary of the VOC and asbestos data is included in Table 1 which is attached to this report.

Six of the twenty-eight soil samples collected during the drilling of the soil borings were analyzed for Title 22 Metals. Detected metals in the soil samples included total barium, chromium, copper, lead, nickel, vanadium and zinc. None of the metals concentrations exceeded the San Francisco Bay Area Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential soil or other applicable thresholds including California Total Threshold Limit Concentrations and Human Health Screening Levels. A summary of the Title 22 Metals detected in the soil at the Site is included in Table 2 which is attached to this report.

The analytical laboratory reports are included in Appendix B of this report.

#### 3.2 Soil Gas Analytical Results

Six soil gas samples were analyzed during the assessment for VOCs. A summary of the VOCs detected in soil gas at the Site is presented in the table below and is also included in Table 3 of this report. The analytical laboratory report is included in Appendix C of this report.

**VOC Detection Summary**

VOC Compound	Number of Detected Data	Number of Non-Detected Data	Minimum Concentration (µg/m <sup>3</sup> )	Location of Minimum Concentration	Maximum Concentration (µg/m <sup>3</sup> )	Location of Maximum Concentration
Chloromethane	6	0	2.7	SV2-5	4.3	SV3-10
Acetone	6	0	160	SV1-10	470	SV1-5
Carbon disulfide	6	0	17	SV3-10	98	SV1-5
2-Butanone (MEK)	6	0	56	SV3-5	150	SV1-5
Chloroform	3	3	20	SV3-5	400	SV2-5
Benzene	6	0	14	SV2-5 & SV2-10	40	SV1-5
4-Methyl-2-pentanone (MIBK)	4	2	14	SV1-10	17	SV3-5
Toluene	6	0	22	SV2-10	46	SV1-5
Ethylbenzene	5	1	4.4	SV3-5	7.8	SV1-5
m,p-Xylene	6	0	8.8	SV2-10	14	SV1-5 & SV1-10
Styrene	4	2	4.7	SV3-5	6.5	SV1-5
o-Xylene	3	3	5.2	SV3-10	6.4	SV1-5
1,2,4-Trimethylbenzene	5	1	5.0	SV3-10	7.8	SV1-5
Tetrachloroethane	2	0	28	SV3-5	36	SV3-10

A narrative pertaining to maximum concentrations and the general distribution of various VOCs detected at the Site is listed below:

- Maximum concentrations of ten of the fourteen detected VOCs were collected in soil gas from boring SV1 at five feet bgs. Such VOC compounds included, acetone, carbon disulfide, 2-Butanone (MEK), benzene, toluene, ethylbenzene, m,p-xylenes, styrene, o-xylenes and 1,2,4-trimethylbenzene.
- The maximum concentration of chloromethane was detected in soil gas from boring SV3 at ten feet bgs.
- The maximum concentration of chloroform was detected in soil gas from boring SV2 at five feet bgs.
- The maximum concentration of 4-Methyl-2-pentanone (MIBK) was detected in soil gas from boring SV3 at five feet bgs.
- The maximum concentration of tetrachloroethane was detected in soil gas from boring SV3 at ten feet bgs.

As shown in Table 3 which is attached to this report, with the exception of the maximum detected concentration of chloroform (400 µg/m<sup>3</sup>), none of the detected VOC concentrations exceeded their respective ESLs. The ESL for chloroform is 230 µg/m<sup>3</sup>.

### **3.3 Groundwater Analytical Results**

The three groundwater samples collected during the drilling of the soil borings were analyzed for were VOCs. VOCs were not detected at or above the laboratory reporting limits in any of the samples. The analytical laboratory report is included in Appendix D of this report.

#### **4.0 DATA ASSESSMENT**

Data management and quality assurance/quality control procedures were implemented during the investigation without significant upset conditions. Such procedures were implemented as part of the field sampling and analytical procedures to ensure that data of known quality was produced and that the quality of the results was improved to the maximum extent during investigation. The quality of the data was assessed and any necessary qualifiers were applied in accordance with United States EPA National Functional Guidelines for Organic Data Review (EPA 540/R-99/008) and Inorganic Data Review (EPA 540/R-04/004) and United States EPA Office of Environmental Information Guidance for Data Quality Assessment: Practical Methods for Data Analysis (QA/G-9), EPA/600/R-96/084.

No data obtained during the work described herein requires rejection. The data is considered to be useable for decision making purposes and a technically defensible deliverable. The analytical data has met precision, accuracy, representativeness, comparability and completeness requirements for laboratory analysis and in meeting data quality objectives for the investigation. Neither corrective action relative to the analytical testing nor a laboratory technical systems audit was deemed warranted.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions of this assessment are as follows:

- VOCs, asbestos and metals are not considered to be contaminants of concern in soil at the Site.
- VOCs are not considered to be contaminants of concern in groundwater at the Site.
- With the exception of the maximum detected concentration of chloroform (400 µg/m<sup>3</sup>), none of the detected VOC concentrations exceeded their respective ESLs.
- AEC recommends that as part of obligations under the prior no further action letter from ACEH pertaining to the former LUST case associated with the Site, this assessment report (and the Phase I ESA pertaining to the Site) should be submitted to ACEH for its review as part of the entitlement and project approval process for the proposed residential development at the Site. After engaging ACEH under a voluntary cleanup agreement, ACEH would review the reports and provide written directives regarding any additional assessment and/or mitigation they feel may be warranted at the Site relative to the proposed change in land use from commercial to residential.
- All data obtained during the subsurface investigation is considered to be valid and useful for decision making purposes. In addition, no upset conditions occurred during the sampling events or completion of the laboratory analysis that may have adversely influenced the results of the investigation.
- Based on the current land use of the Site (parking lot), the findings of this assessment do not represent conditions that are considered to be an imminent threat to human health or the environment, or ones that require immediate notification to an environmental regulatory agency.

## **6.0 LIMITATIONS**

The services provided by AEC have been performed in accordance with practices and standards generally accepted by environmental scientists practicing in this industry. No other warranty, either express or implied, is made. The results and conclusions described herein are based on a limited subsurface evaluation and sampling program and do not purport to identify any and all sources or locations of potentially impacted soil and soil gas that may exist at the Site. Levels of contaminants measured at a given location may not be representative of conditions in other areas on the Site. In addition, conditions may change at any particular location as a function of time in response to natural conditions, chemical reactions and other factors. Our conclusions regarding the condition of the Site does not represent a warranty that all areas of the Site are similar to those sampled. AEC is not responsible for the conclusions, opinions, or recommendations made by others based on this information.

## 7.0 REFERENCES

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), 2011, Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance), dated October 2011.

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), California Regional Water Quality Control Board, San Francisco Region (SF-RWQCB), 2012, Advisory — Active Soil Gas Investigations, jointly issued by the DTSC, LA-RWQCB, and SF-RWQCB, dated April 2012.

California Environmental Protection Agency Office of Environmental Health Hazard Assessment, 2012, Toxicity Criteria Database.

San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (2013).

United States Environmental Protection Agency (USEPA), 1989, Risk Assessment Guidance for Superfund Volume I, Human Health Evaluation Manual (Part A), USEPA 540/1-89-002, Office of Emergency and Remedial Response. Washington, DC.

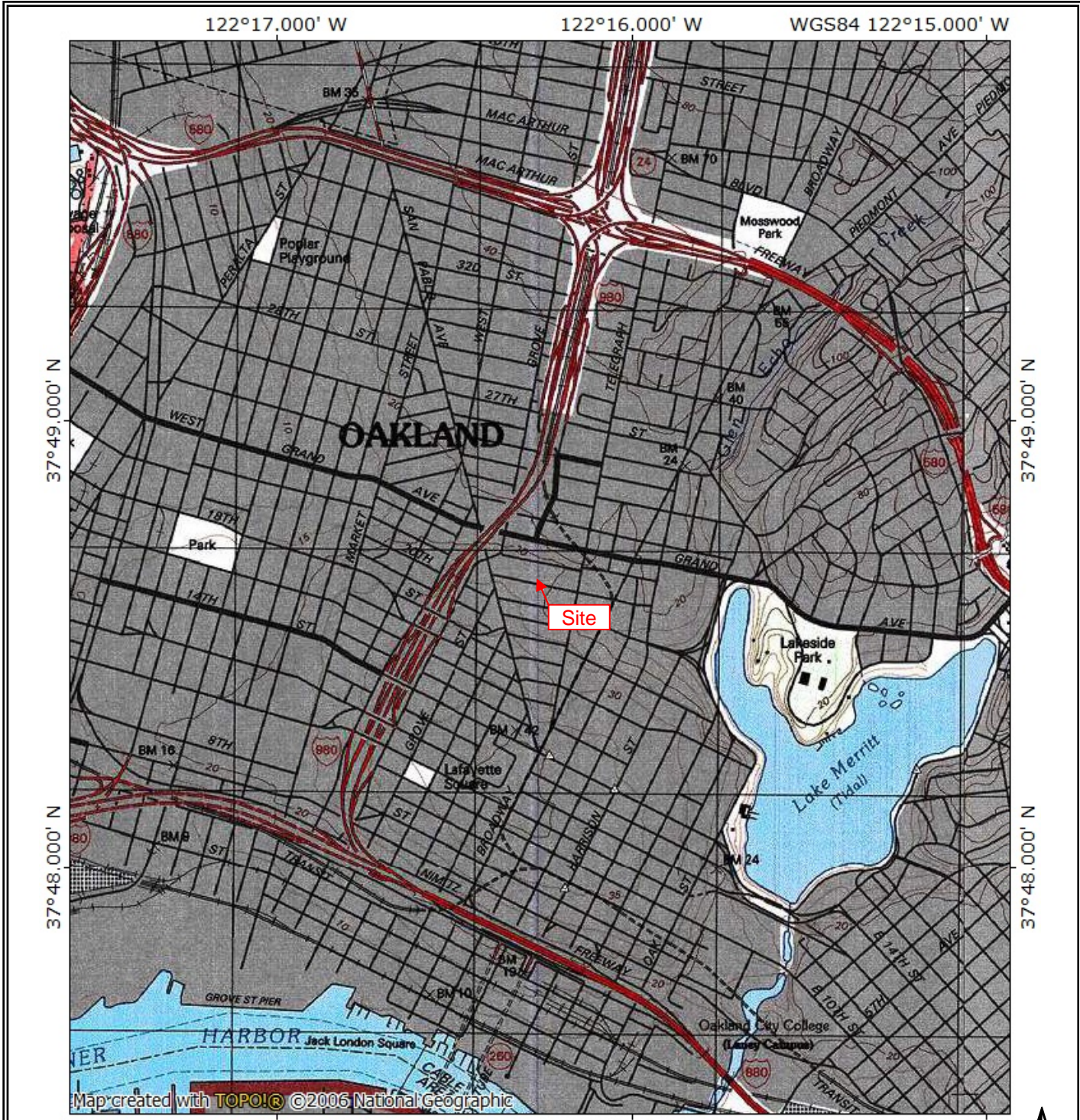
\_\_\_\_\_, 1991, Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual, Supplemental Guidance Standard Exposure Factors, Draft Final, OSWER Directive 9285.6-03, Office of Solid Waste and Emergency Response. USEPA, 1997. Exposure Factors Handbook. Office of Research and Development. EPA/600/P-95/002Ba.

\_\_\_\_\_, 2000, Guidance for Data Quality Assessment: Practical Methods for Data Analysis (QA/G-9), EPA/600/R-96/084, Office of Environmental Information.

\_\_\_\_\_, 2009, Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual, Part F Supplemental Guidance for Inhalation Risk Assessment, Office of Solid Waste and Emergency Response, EPA-540-R-070-002, OSWER 9285.7-82

United States Geologic Survey (USGS), 1997, Oakland West, CA, Quadrangle 7.5 Minute Topographic Map.

## FIGURES



USGS Topographic Quadrangle Map  
 Oakland West, CA (1997)



145 Vallecitos De Oro, Suite 201  
 San Marcos, CA 92069  
 Phone: 760-744-3363 Fax: 760-744-3383

Vicinity Map  
 585 22<sup>nd</sup> Street  
 Oakland, California

Work Order No.: 15-120SD	Report Date: August 2015	Drawn By: TJ
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145 Vallecitos De Oro, Suite 201  
 San Marcos, CA 92069  
 Phone: 760-744-3363 Fax: 760-744-3383

Site Plan  
 585 22<sup>nd</sup> Street  
 Oakland, California

Work Order No.:  
 15-120SD

Report Date:  
 August 2015

Drawn By:  
 TJ

## TABLES



**TABLE 2**  
**SOIL ANALYTICAL RESULTS FOR TOTAL TITLE 22 METALS**  
**585 22nd Street, Oakland, California**

Sample ID	Sample Date	Depth (feet)	Total Title 22 Metals by EPA Test Methods 6010B/7471A (mg/kg)																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B1-1	7/17/2015	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B1-3	7/17/2015	3	ND<1.0	ND<1.0	154	ND<1.3	ND<1.3	26.7	7.71	7.48	ND<2.5	ND<0.1	ND<2.5	15.6	ND<1.0	ND<2.5	ND<1.0	21.7	17.2
B1-5	7/17/2015	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B1-10	7/17/2015	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B1-15	7/17/2015	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B2-1	7/17/2015	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B2-3	7/17/2015	3	ND<1.0	ND<1.0	95.3	ND<1.3	ND<1.3	24.8	5.20	14.3	2.87	ND<0.1	ND<2.5	40.1	ND<1.0	ND<2.5	ND<1.0	16.8	31.4
B2-11.5	7/17/2015	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B2-15	7/17/2015	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-1	7/17/2015	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-3	7/17/2015	3	ND<1.0	ND<1.0	109	ND<1.3	ND<1.3	26.5	6.06	44.5	5.39	ND<0.1	ND<2.5	16.5	ND<1.0	ND<2.5	ND<1.0	22.8	30.4
B3-5	7/17/2015	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-10	7/17/2015	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-15	7/17/2015	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B4-1	7/17/2015	1	ND<1.0	ND<1.0	113	ND<1.3	ND<1.3	31.6	6.90	20.9	42.3	ND<0.1	ND<2.5	33.7	ND<1.0	ND<2.5	ND<1.0	29.7	88.3
B4-3	7/17/2015	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B4-5	7/17/2015	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B4-10	7/17/2015	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B4-15	7/17/2015	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B5-1	7/17/2015	1	ND<1.0	ND<1.0	103	ND<1.3	ND<1.3	27.1	10.6	55.0	54.3	ND<0.1	ND<2.5	21.5	ND<1.0	ND<2.5	ND<1.0	58.7	92.0
B5-3	7/17/2015	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B5-5	7/17/2015	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B5-10	7/17/2015	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B6-1	7/17/2015	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B6-3	7/17/2015	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B6-5	7/17/2015	5	ND<1.0	ND<1.0	397	ND<1.3	ND<1.3	36.8	4.14J	21.4	ND<2.5	ND<0.1	ND<2.5	38.4	ND<1.0	ND<2.5	ND<1.0	21.9	48.3
B6-10	7/17/2015	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B6-15	7/17/2015	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TTLc (mg/kg)		--	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
10x STLC (mg/kg)		--	150	50	1,000	7.5	10	50	800	250	50	2	3,500	200	10	50	70	240	2,500
20x TCLP (mg/kg)		--	NA	100	2,000	NA	20	100	NA	NA	100	4	NA	NA	20	100	NA	NA	NA
CHHSL-R (mg/kg)		--	30	0.07	5,200	150	1.7	17 (Chromium VI) 100,000 (Chromium III)	660	3,000	80	18	380	1,600	380	380	5	530	23,000
CHHSL-CI (mg/kg)		--	380	0.24	63,000	1,700	7.5	37 (Chromium VI) 100,000 (Chromium III)	3,200	38,000	320	180	4,800	16,000	4,800	4,800	63	6,700	100,000
ESLs (mg/kg)		--	20	0.39	750	4.0	NA	1,000	23	230	80	6.7	40	150	10	20	0.78	200	600

**Notes:**

Samples analyzed by US EPA Test Methods 6010B/7471A

mg/kg - milligrams per kilogram

ND (<1.00) = Not detected at or above the laboratory reporting limit

TTLc = Total Threshold Limit Concentration (California Code of Regulations Title 22, Chapter 30, Article 11)

STLC = Soluble Threshold Limit Concentration (California Code of Regulations Title 22, Chapter 30, Article 11)

TCLP = Toxicity Characteristic Leaching Procedure (40 Code of Federal Regulations, Part 261.24 and California Code of Regulations Title 22, Chapter 30, Article 11)

CHHSL-R - California Human Health Screening Level (Residential Soil)

CHHSL-CI - California Human Health Screening Level (Commercial/Industrial Soil)

ESLs - Environmental Screening Levels (Tier 1, San Francisco Regional Water Quality Control Board)

**Table 3  
Soil Gas Analytical Results**

**585 22nd Street  
Oakland, California**

Volatile Organic Compounds (ug/m <sup>3</sup> )	Sample Identification						SF Bay RWQCB ESLs
	SV1-5	SV1-10	SV2-5	SV2-10	SV3-5	SV3-10	
Chloromethane	3.7	3.8	2.7	3.6	3.9	4.3	47000
Acetone	470	160	430	230	280	200	15000000
Carbon disulfide	98	52	28	26	32	17	NA
2-Butanone (MEK)	150	61	86	56	82	79	NA
Chloroform	29	ND<3.2	400	ND<3.2	20		230
Benzene	40	26	14	14	20	33	42
4-Methyl-2-pentanone (MIBK)	16.0	14	ND<8.3	ND<8.3	17	16	NA
Toluene	46	37	28	22	28	40	160000
Ethylbenzene	7.8	6.8	ND<4.4	4.7	4.4	6.9	490
m,p-Xylene	14	14	9.5	8.8	9.3	12	52000
Styrene	6.5	5.3	ND<4.3	ND<4.3	4.7	5.3	470000
o-Xylene	6.4	5.5	ND<5.0	ND<5.0	ND<5.0	5.2	52000
1,2,4-Trimethylbenzene	7.8	5.1	7.3	ND<5.0	7	5	NA
Tetrachloroethane	ND<6.9	ND<6.9	ND<6.9	ND<6.9	28	36	210

ug/m<sup>3</sup> = micrograms per cubic meter

ND = not detected above laboratory reporting limits

NA = not applicable

**APPENDIX A**

**SOIL BORING LOGS**

# BORING LOG

<b>PROJECT:</b> 585 22nd Street, Oakland, CA		<b>PROJECT NO.:</b> 15-120SD	<b>LOG OF BORING NO.:</b> <b>B1</b>
<b>BORING LOCATION:</b> See Site Exploration Plan		<b>ELEVATION AND DATUM:</b> Site elevation = ~25 feet above MSL	
<b>DRILLING CONTRACTOR:</b> Cascade Drilling		<b>DATE STARTED:</b> 7/17/2015	<b>DATE FINISHED:</b> 7/17/2015
<b>DRILLING METHOD:</b> Direct Push		<b>TOTAL DEPTH:</b> 15 feet	
<b>DRILLING EQUIPMENT:</b> Truck Mounted Geoprobe Rig		<b>DEPTH TO WATER:</b> ~15 feet	
<b>SAMPLING METHOD:</b> DPT sampler lined with acetate sleeves		<b>LOGGED BY:</b> Scott Schiffer	
<b>HAMMER WT.:</b> NA	<b>DROP:</b> NA	<b>RESPONSIBLE PROFESSIONAL:</b> Eric Cathcart	

Depth (ft)	Sample Interval	Sample ID	SOIL DESCRIPTION	PID (ppm)	REMARKS
			Asphalt ~ 6 inches thick		
1	X	B1-1'	Sand and sandy clay (SC), medium and fine grained sand and clay mixtures, light brown	0.0	
2					
3	X	B1-3'	Clay (CL), dark gray, medium plasticity	0.0	
4					
5	X	B1-5'	Clay (CL), light brown, low plasticity	0.0	*Temporary vapor probe installed at 5' bgs
6					
7					
8					
9					
10	X	B1-10'	Clayey sand and sandy silt (SC), yellowish orange, medium plasticity	0.0	*Temporary vapor probe installed at 10' bgs
11					
12					
13					
14					
15	X	B1-15'	Clayey sand (SC), light brown, wet/groundwater encountered	0.0	*Groundwater sample collected at 15' bgs
					*Soil boring backfilled with hydrated bentonite granules and capped to match existing surface grade.

# BORING LOG

<b>PROJECT:</b> 585 22nd Street, Oakland, CA		<b>PROJECT NO.:</b> 15-120SD	<b>LOG OF BORING NO.:</b> <b>B2</b>
<b>BORING LOCATION:</b> See Site Exploration Plan		<b>ELEVATION AND DATUM:</b> Site elevation = ~25 feet above MSL	
<b>DRILLING CONTRACTOR:</b> Cascade Drilling		<b>DATE STARTED:</b> 7/17/2015	<b>DATE FINISHED:</b> 7/17/2015
<b>DRILLING METHOD:</b> Direct Push		<b>TOTAL DEPTH:</b> 15 feet	
<b>DRILLING EQUIPMENT:</b> Truck Mounted Geoprobe Rig		<b>DEPTH TO WATER:</b> 15 feet	
<b>SAMPLING METHOD:</b> DPT sampler lined with acetate sleeves		<b>LOGGED BY:</b> Scott Schiffer	
<b>HAMMER WT.:</b> NA	<b>DROP:</b> NA	<b>RESPONSIBLE PROFESSIONAL:</b> Eric Cathcart	

Depth (ft)	Sample Interval	Sample ID	SOIL DESCRIPTION	PID (ppm)	REMARKS
			Asphalt ~ 6 inches thick		
1	X	B2-1'	Clean Gravels (GP), medium and coarse grained sand and gravel	0.0	
3	X	B2-3'	Clayey Sand (SC), fine to medium grained sand and clay mixtures, dark brown, moist, medium plasticity	0.0	
5	X	B2-5'	No recovery - artificial fill, gravel and rocks	0.0	
10	X	B2-10'	No recovery - artificial fill, gravel and rocks	0.0	
15	X	B2-15'	Artificial fill, gravel, rock and medium to coarse grained sand mixtures, yellowish orange, wet/groundwater encountered.	0.0	<p><b>NOTES:</b></p> <p>*Groundwater sample collected at 15' bgs</p> <p>*Soil boring backfilled with hydrated bentonite granules and capped to match existing surface grade.</p>



# BORING LOG

<b>PROJECT:</b> 585 22nd Street, Oakland, CA		<b>PROJECT NO.:</b> 15-120SD	<b>LOG OF BORING NO.:</b> <b>B3</b>
<b>BORING LOCATION:</b> See Site Exploration Plan		<b>ELEVATION AND DATUM:</b> Site elevation = ~25 feet above MSL	
<b>DRILLING CONTRACTOR:</b> Cascade Drilling		<b>DATE STARTED:</b> 7/17/2015	<b>DATE FINISHED:</b> 7/17/2015
<b>DRILLING METHOD:</b> Direct Push		<b>TOTAL DEPTH:</b> 15 feet	
<b>DRILLING EQUIPMENT:</b> Truck Mounted Geoprobe Rig		<b>DEPTH TO WATER:</b> 15 feet	
<b>SAMPLING METHOD:</b> DPT sampler lined with acetate sleeves		<b>LOGGED BY:</b> Scott Schiffer	
<b>HAMMER WT.:</b> NA	<b>DROP:</b> NA	<b>RESPONSIBLE PROFESSIONAL:</b> Eric Cathcart	

Depth (ft)	Sample Interval	Sample ID	SOIL DESCRIPTION	PID (ppm)	REMARKS
			Asphalt ~ 6 inches thick		<b>NOTES:</b>  *Temporary vapor probe installed at 5' bgs          *Temporary vapor probe installed at 10' bgs          *Groundwater sample collected at 15' bgs   *Soil boring backfilled with hydrated bentonite granules and capped to match existing surface grade.
1	X	B3-1'	Clean Gravels (GP), med and coarse grained sand and gravel	0.0	
2					
3	X	B3-3'	Clayey Sand (SC), fine grained silty sand and clay mixtures, dark brown, moist, high plasticity	0.0	
4					
5	X	B3-5'	Clay (CL),, light brown, medium plasticity	0.0	
6					
7					
8					
9					
10	X	B3-10'	Clayey sand and silt (SC), silty sand and clay mixtures, yellowish orange, low plasticity	0.0	
11					
12					
13					
14					
15	X	B3-15'	Clean Sand, fine and medium grained sand, loose, wet/groundwater encountered	0.0	

# BORING LOG

<b>PROJECT:</b> 585 22nd Street, Oakland, CA		<b>PROJECT NO.:</b> 15-120SD	<b>LOG OF BORING NO.:</b> <b>B4</b>
<b>BORING LOCATION:</b> See Site Exploration Plan		<b>ELEVATION AND DATUM:</b> Site elevation = ~25 feet above MSL	
<b>DRILLING CONTRACTOR:</b> Cascade Drilling		<b>DATE STARTED:</b> 7/17/2015	<b>DATE FINISHED:</b> 7/17/2015
<b>DRILLING METHOD:</b> Direct Push		<b>TOTAL DEPTH:</b> 15 feet	
<b>DRILLING EQUIPMENT:</b> Truck Mounted Geoprobe Rig		<b>DEPTH TO WATER:</b> 15 feet	
<b>SAMPLING METHOD:</b> DPT sampler lined with acetate sleeves		<b>LOGGED BY:</b> Scott Schiffer	
<b>HAMMER WT.:</b> NA	<b>DROP:</b> NA	<b>RESPONSIBLE PROFESSIONAL:</b> Eric Cathcart	

Depth (ft)	Sample Interval	Sample ID	SOIL DESCRIPTION	PID (ppm)	REMARKS
			Asphalt ~ 6 inches thick		
1	X	B4-1'	Clay, silty sand and rock, med and coarse grained sand and rock	0.0	*Concrete observed in sample B4-1
2					
3	X	B4-3'	Clay, dark brown, low plasticity	0.0	
4					
5	X	B4-5'	Clay (CL), dark gray/brown, low plasticity	0.0	<b>NOTES:</b> *Temporary vapor probe installed at 5' bgs
6					
7					
8					
9					
10	X	B4-10'	Clay (CL), light brown, low plasticity	0.0	*Temporary vapor probe installed at 10' bgs
11					
12					
13					
14					
15	X	B4-15'	Fine and silty sands, fine grained sand, light brown, wet/groundwater encountered	0.0	*Soil boring backfilled with hydrated bentonite granules and capped to match existing surface grade.

# BORING LOG

<b>PROJECT:</b> 585 22nd Street, Oakland, CA		<b>PROJECT NO.:</b> 15-120SD	<b>LOG OF BORING NO.:</b> <b>B5</b>
<b>BORING LOCATION:</b> See Site Exploration Plan		<b>ELEVATION AND DATUM:</b> Site elevation = ~25 feet above MSL	
<b>DRILLING CONTRACTOR:</b> Cascade Drilling		<b>DATE STARTED:</b> 7/17/2015	<b>DATE FINISHED:</b> 7/17/2015
<b>DRILLING METHOD:</b> Direct Push		<b>TOTAL DEPTH:</b> 15 feet	
<b>DRILLING EQUIPMENT:</b> Truck Mounted Geoprobe Rig		<b>DEPTH TO WATER:</b> 15 feet	
<b>SAMPLING METHOD:</b> DPT sampler lined with acetate sleeves		<b>LOGGED BY:</b> Scott Schiffer	
<b>HAMMER WT.:</b> NA	<b>DROP:</b> NA	<b>RESPONSIBLE PROFESSIONAL:</b> Eric Cathcart	

Depth (ft)	Sample Interval	Sample ID	SOIL DESCRIPTION	PID (ppm)	REMARKS
			Asphalt ~ 6 inches thick		
1	X	B5-1'	Sand and silty sand, med and fine grained sand and silt mixtures, as well as rocks/gravel, loose, light brown/reddish orange	0.0	
2					
3	X	B5-3'	Sand and silty sand, med and fine grained sand and silt mixtures, as well as rocks/gravel, loose, light brown/reddish orange	0.0	
4					
5	X	B5-5'	Clay (CL), light gray/brown, low plasticity, very dense	0.0	
6					
7					
8					
9					
10	X	B5-10'	Clay (CL), light brown, medium plasticity	0.0	
					<p><b>NOTES:</b></p> <p>*Soil boring backfilled with hydrated bentonite granules and capped to match existing surface grade.</p>
					Page 1 of 1

# BORING LOG

<b>PROJECT:</b> 585 22nd Street, Oakland, CA		<b>PROJECT NO.:</b> 15-120SD	<b>LOG OF BORING NO.:</b> <b>B6</b>
<b>BORING LOCATION:</b> See Site Exploration Plan		<b>ELEVATION AND DATUM:</b> Site elevation = ~25 feet above MSL	
<b>DRILLING CONTRACTOR:</b> Cascade Drilling		<b>DATE STARTED:</b> 7/17/2015	<b>DATE FINISHED:</b> 7/17/2015
<b>DRILLING METHOD:</b> Direct Push		<b>TOTAL DEPTH:</b> 15 feet	
<b>DRILLING EQUIPMENT:</b> Truck Mounted Geoprobe Rig		<b>DEPTH TO WATER:</b> 15 feet	
<b>SAMPLING METHOD:</b> DPT sampler lined with acetate sleeves		<b>LOGGED BY:</b> Scott Schiffer	
<b>HAMMER WT.:</b> NA	<b>DROP:</b> NA	<b>RESPONSIBLE PROFESSIONAL:</b> Eric Cathcart	

Depth (ft)	Sample Interval	Sample ID	SOIL DESCRIPTION	PID (ppm)	REMARKS
			Asphalt ~ 6 inches thick		
1	X	B6-1'	Sand and silty sand, med and coarse grained sand and gravel, dark gray	0.0	
3	X	B6-3'	Clayey Sand (SC), fine to medium grained sand and clay mixtures, dark brown, moist, medium plasticity	0.0	
5	X	B6-5'	Clay (CL), fine grained silty clay, light brown, medium plasticity	0.0	
10	X	B6-10'	Clay (CL), very dense, yellowish orange, low plasticity	0.0	
15	X	B6-15'	Sand and Silty Sand (SM), light brown, wet/groundwater encountered	0.0	

**NOTES:**  
 \*Soil boring backfilled with hydrated bentonite granules and capped to match existing surface grade.

**APPENDIX B**

**SOIL ANALYTICAL LABORATORY REPORTS**



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Advantage Environmental Consultants  
145 Vallecitos De Oro Suite 201  
San Marcos, CA 92069-

Number of Pages 12  
Date Received 07/21/2015  
Date Reported 07/29/2015

Telephone: (760)744-3363  
Attention: Dan Weis

Job Number	Order Date	Client
77682	07/21/2015	AEC

Project ID: 15-120SD  
Project Name: 585 22nd Street  
Site: 585 22nd Street  
Oakland, CA 94612

Enclosed please find results of analyses of 12 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10183  
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## CHAIN OF CUSTODY RECORD

No 91094

Page 1 of 2

COMPANY (AEC) Advantage Env. Cons. PROJECT MANAGER Dan Weis AETL JOB No. 77682				ANALYSIS REQUESTED Title 22 Metals STLC TCLP VOCs - 8260				TEST INSTRUCTIONS & COMMENTS								
COMPANY ADDRESS 145 Vallecitos de Oro Ste. 201 PHONE FAX				PROJECT NAME San Marcos, CA 92069 PROJECT # 15-120SD												
SITE NAME AND ADDRESS 585 22nd Street, Oakland PO #																
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.										
B6-1'		7/17/15	10:00 am	SOIL		ICE										
B6-3'		↓	10:01	↓		↓										
B6-5'			10:04													
B6-10'			10:06													
B6-15'			10:08													
B1-1'			10:15													
B1-3'			10:18													
B1-5'			10:22													
B1-10'			10:30													
B1-15'			10:32													
B2-1'			11:30													
B2-3'			11:31													
B2-11.5'			11:35													
B2-15'			11:40													
B3-1'			1:30													
<b>SAMPLE RECEIPT - TO BE FILLED BY LABORATORY</b>							RELINQUISHED BY SAMPLER: 1. Signature: <i>[Signature]</i>		RELINQUISHED BY: 2. Signature: _____		RELINQUISHED BY: 3. Signature: _____					
TOTAL NUMBER OF CONTAINERS		PROPERLY COOLED Y/N/NA		Signature: <i>[Signature]</i>		Signature: _____		Signature: _____		Signature: _____						
CUSTODY SEALS Y/N/NA		SAMPLES INTACT Y/N/NA		Printed Name: Scott Schiffer		Printed Name: _____		Printed Name: _____		Printed Name: _____						
RECEIVED IN GOOD COND. Y/N		SAMPLES ACCEPTED Y/N		Date: 7/17/15 Time: _____		Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____						
TURN AROUND TIME				DATA DELIVERABLE REQUIRED				RECEIVED BY: 1. Signature: _____		RECEIVED BY: 2. Signature: _____		RECEIVED BY: 3. Signature: _____				
<input type="checkbox"/> NORMAL <input type="checkbox"/> RUSH <input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS				<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) _____ <input type="checkbox"/> OTHER (PLEASE SPECIFY) _____				Printed Name: _____		Printed Name: _____		Printed Name: _____				
Date: _____ Time: _____				Date: _____ Time: _____				Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____				



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## CHAIN OF CUSTODY RECORD

No 90992

AETL JOB No 77682

Page 2 of 2

COMPANY (AEC) Advantage Env. Cons. PROJECT MANAGER Dan Wells

COMPANY ADDRESS 145 Vallecitos de Oro Ste. 201 PHONE FAX

PROJECT NAME San Marcos, CA 92062 PROJECT # 15-120SD

SITE NAME AND ADDRESS 585 22nd Street, Oakland PO #

### ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS	THE 22 METALS	STLC	TCLP	VOCs-8260																	
	X																				
				X																	
				X																	
	X																				
	X																				

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
B3-3'		7/17/15	1:32	SoIL		ICE
B3-5'			1:34			
B3-10'			1:56			
B3-15'			1:38			
B4-1'			1:50			
B4-3'			1:53			
B4-5'			1:54			
B4-10'			1:58			
B4-15'			2:20			
B5-1'			2:50			
B5-3'			2:54			
B5-5'			2:58			
B5-10'			3:00			

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS \_\_\_\_\_ PROPERLY COOLED Y / N / NA \_\_\_\_\_

CUSTODY SEALS Y / N / NA \_\_\_\_\_ SAMPLES INTACT Y / N / NA \_\_\_\_\_

RECEIVED IN GOOD COND. Y / N \_\_\_\_\_ SAMPLES ACCEPTED Y / N \_\_\_\_\_

TURN AROUND TIME:  NORMAL  RUSH

DATA DELIVERABLE REQUIRED:  HARD COPY  PDF  GEOTRACKER (GLOBAL ID) \_\_\_\_\_  OTHER (PLEASE SPECIFY) \_\_\_\_\_

SAME DAY  NEXT DAY  2 DAYS  3 DAYS

RELINQUISHED BY SAMPLER: 1. Signature: \_\_\_\_\_ Printed Name: Scott Schiffer Date: 7/17/15 Time: \_\_\_\_\_

RELINQUISHED BY: 2. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RELINQUISHED BY: 3. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 1. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 2. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY LABORATORY: 3. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_





# American Environmental Testing Laboratory Inc.

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Page: 1 A

## Ordered By

Advantage Environmental Consultants  
145 Vallecitos De Oro Suite 201  
San Marcos, CA 92069-

Project ID: 15-120SD  
Date Received 07/21/2015  
Date Reported 07/29/2015

Telephone: (760)744-3363  
Attention: Dan Weis

Job Number	Order Date	Client
77682	07/21/2015	AEC

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 28 samples with the following specification on 07/21/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
77682.01	B6-1'	07/17/2015	Soil	1
77682.02	B6-3'	07/17/2015	Soil	1
77682.04	B6-10'	07/17/2015	Soil	1
77682.05	B6-15'	07/17/2015	Soil	1
77682.06	B1-1'	07/17/2015	Soil	1
77682.10	B1-15'	07/17/2015	Soil	1
77682.11	B2-1'	07/17/2015	Soil	1
77682.13	B2-11.5'	07/17/2015	Soil	1
77682.14	B2-15'	07/17/2015	Soil	1
77682.15	B3-1'	07/17/2015	Soil	1
77682.19	B3-15'	07/17/2015	Soil	1
77682.21	B4-3'	07/17/2015	Soil	1
77682.24	B4-15'	07/17/2015	Soil	1
77682.26	B5-3'	07/17/2015	Soil	1
77682.27	B5-5'	07/17/2015	Soil	1
77682.28	B5-10'	07/17/2015	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/28/2015	2	Normal	--
77682.03	B6-5'	07/17/2015	Soil	1
77682.07	B1-3'	07/17/2015	Soil	1
77682.12	B2-3'	07/17/2015	Soil	1
77682.16	B3-3'	07/17/2015	Soil	1
77682.20	B4-1'	07/17/2015	Soil	1
77682.25	B5-1'	07/17/2015	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	07/28/2015	2	Normal	mg/Kg

Continued



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

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Page: 1 B

### Ordered By

Advantage Environmental Consultants  
145 Vallecitos De Oro Suite 201  
San Marcos, CA 92069-

Project ID: 15-120SD  
Date Received 07/21/2015  
Date Reported 07/29/2015

Telephone: (760)744-3363

Attention: Dan Weis

Job Number	Order Date	Client
77682	07/21/2015	AEC

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity	Of Containers
77682.08	B1-5'	07/17/2015	Soil	1	
77682.09	B1-10'	07/17/2015	Soil	1	
77682.17	B3-5'	07/17/2015	Soil	1	
77682.18	B3-10'	07/17/2015	Soil	1	
77682.22	B4-5'	07/17/2015	Soil	1	
77682.23	B4-10'	07/17/2015	Soil	1	

Method	Submethod	Req Date	Priority	TAT	Units
(8260B)		07/28/2015	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Advantage Environmental Consultants  
 145 Vallecitos De Oro  
 Suite 201  
 San Marcos, CA 92069-

### Site

585 22nd Street  
 Oakland, CA 94612

Telephone: (760)744-3363

Attn: Dan Weis

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Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0723152C1

Our Lab I.D.		Method Blank	77682.03	77682.07	77682.12	77682.16
Client Sample I.D.			B6-5'	B1-3'	B2-3'	B3-3'
Date Sampled			07/17/2015	07/17/2015	07/17/2015	07/17/2015
Date Prepared		07/23/2015	07/23/2015	07/23/2015	07/23/2015	07/23/2015
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		07/24/2015	07/24/2015	07/24/2015	07/24/2015	07/24/2015
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Antimony	1.0	5.0	ND	ND	ND	ND
Arsenic	1.0	5.0	ND	ND	ND	ND
Barium	2.5	5.0	ND	397	154	95.3
Beryllium	1.3	2.5	ND	ND	ND	ND
Cadmium	1.3	2.5	ND	ND	ND	ND
Chromium	2.5	5.0	ND	36.8	26.7	24.8
Cobalt	2.5	5.0	ND	4.14J	7.71	5.20
Copper	2.5	5.0	ND	21.4	7.48	14.3
Lead	2.5	5.0	ND	ND	ND	2.87J
Mercury (By EPA 7471)	0.1	0.2	ND	ND	ND	ND
Molybdenum	2.5	5.0	ND	ND	ND	ND
Nickel	2.5	5.0	ND	38.4	15.6	40.1
Selenium	1.0	5.0	ND	ND	ND	ND
Silver	2.5	5.0	ND	ND	ND	ND
Thallium	1.0	5.0	ND	ND	ND	ND
Vanadium	2.5	5.0	ND	21.9	21.7	16.8
Zinc	2.5	5.0	ND	48.3	17.2	31.4



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## ANALYTICAL RESULTS

### Ordered By

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 Suite 201  
 San Marcos, CA 92069-

### Site

585 22nd Street  
 Oakland, CA 94612

Telephone: (760)744-3363

Attn: Dan Weis

Page: 3

Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0723152C1

Our Lab I.D.			77682.20	77682.25		
Client Sample I.D.			B4-1'	B5-1'		
Date Sampled			07/17/2015	07/17/2015		
Date Prepared			07/23/2015	07/23/2015		
Preparation Method			3050B	3050B		
Date Analyzed			07/24/2015	07/24/2015		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Antimony	1.0	5.0	ND	ND		
Arsenic	1.0	5.0	ND	ND		
Barium	2.5	5.0	113	103		
Beryllium	1.3	2.5	ND	ND		
Cadmium	1.3	2.5	ND	ND		
Chromium	2.5	5.0	31.6	27.1		
Cobalt	2.5	5.0	6.90	10.6		
Copper	2.5	5.0	20.9	55.0		
Lead	2.5	5.0	42.3	54.3		
Mercury (By EPA 7471)	0.1	0.2	ND	ND		
Molybdenum	2.5	5.0	ND	ND		
Nickel	2.5	5.0	33.7	21.5		
Selenium	1.0	5.0	ND	ND		
Silver	2.5	5.0	ND	ND		
Thallium	1.0	5.0	ND	ND		
Vanadium	2.5	5.0	29.7	58.7		
Zinc	2.5	5.0	88.3	92.0		



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## ANALYTICAL RESULTS

### Ordered By

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585 22nd Street  
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Telephone: (760)744-3363

Attn: Dan Weis

Page: 4

Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0725152A1

Our Lab I.D.			Method Blank	77682.08	77682.09	77682.17	77682.18
Client Sample I.D.				B1-5'	B1-10'	B3-5'	B3-10'
Date Sampled				07/17/2015	07/17/2015	07/17/2015	07/17/2015
Date Prepared			07/25/2015	07/25/2015	07/25/2015	07/25/2015	07/25/2015
Preparation Method			5030	5030	5030	5030	5030
Date Analyzed			07/25/2015	07/25/2015	07/25/2015	07/25/2015	07/25/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Acetone	25	50	ND	ND	ND	ND	ND
Benzene	1.0	10.0	ND	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND	ND	ND	ND
Bromochloromethane	5.0	10.0	ND	ND	ND	ND	ND
Bromodichloromethane	5.0	10.0	ND	ND	ND	ND	ND
Bromoform (Tribromomethane)	25	50	ND	ND	ND	ND	ND
Bromomethane (Methyl bromide)	15	30	ND	ND	ND	ND	ND
2-Butanone (MEK)	25	50	ND	ND	ND	ND	ND
n-Butylbenzene	5.0	10.0	ND	ND	ND	ND	ND
sec-Butylbenzene	5.0	10.0	ND	ND	ND	ND	ND
tert-Butylbenzene	5.0	10.0	ND	ND	ND	ND	ND
Carbon Disulfide	25	50	ND	ND	ND	ND	ND
Carbon tetrachloride	5.0	10.0	ND	ND	ND	ND	ND
Chlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
Chloroethane	15	30	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	50	50	ND	ND	ND	ND	ND
Chloroform (Trichloromethane)	5.0	10.0	ND	ND	ND	ND	ND
Chloromethane (Methyl chloride)	15	30	ND	ND	ND	ND	ND
2-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	ND
4-Chlorotoluene	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND	ND	ND	ND
Dibromochloromethane	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND	ND	ND	ND
Dibromomethane	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND



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## ANALYTICAL RESULTS

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Project ID: 15-120SD  
 Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0725152A1

Our Lab I.D.			Method Blank	77682.08	77682.09	77682.17	77682.18
Client Sample I.D.				B1-5'	B1-10'	B3-5'	B3-10'
Date Sampled				07/17/2015	07/17/2015	07/17/2015	07/17/2015
Date Prepared			07/25/2015	07/25/2015	07/25/2015	07/25/2015	07/25/2015
Preparation Method			5030	5030	5030	5030	5030
Date Analyzed			07/25/2015	07/25/2015	07/25/2015	07/25/2015	07/25/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Dichlorodifluoromethane	15	30	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND	ND	ND	ND
1,1-Dichloroethene	5.0	10.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.0	10.0	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.0	10.0	ND	ND	ND	ND	ND
1,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	ND
1,3-Dichloropropane	5.0	10.0	ND	ND	ND	ND	ND
2,2-Dichloropropane	5.0	10.0	ND	ND	ND	ND	ND
1,1-Dichloropropene	5.0	10.0	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	5.0	10.0	ND	ND	ND	ND	ND
Ethylbenzene	1.0	10.0	ND	ND	ND	ND	ND
Hexachlorobutadiene	15	30	ND	ND	ND	ND	ND
2-Hexanone	25	50	ND	ND	ND	ND	ND
Iodomethane	5.0	10.0	ND	ND	ND	ND	ND
Isopropylbenzene	5.0	10.0	ND	ND	ND	ND	ND
p-Isopropyltoluene	5.0	10.0	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND	ND	ND	ND
Methylene chloride (DCM)	25	50	ND	ND	ND	ND	ND
Naphthalene	5.0	10.0	ND	ND	ND	ND	ND
n-Propylbenzene	5.0	10.0	ND	ND	ND	ND	ND
Styrene	5.0	10.0	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND	ND	ND	ND
Tetrachloroethene	2.0	10.0	ND	ND	ND	ND	ND
Toluene (Methyl benzene)	1.0	10.0	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0	10.0	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	5.0	10.0	ND	ND	ND	ND	ND
Trichloroethene	1.5	10.0	ND	ND	ND	ND	ND
Trichlorofluoromethane	5.0	10.0	ND	ND	ND	ND	ND



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## ANALYTICAL RESULTS

Page: 6

Project ID: 15-120SD  
Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0725152A1

Our Lab I.D.		Method Blank	77682.08	77682.09	77682.17	77682.18	
Client Sample I.D.			B1-5'	B1-10'	B3-5'	B3-10'	
Date Sampled			07/17/2015	07/17/2015	07/17/2015	07/17/2015	
Date Prepared		07/25/2015	07/25/2015	07/25/2015	07/25/2015	07/25/2015	
Preparation Method		5030	5030	5030	5030	5030	
Date Analyzed		07/25/2015	07/25/2015	07/25/2015	07/25/2015	07/25/2015	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
1,2,3-Trichloropropane	5.0	10.0	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND	ND	ND	ND
Vinyl Acetate	25	50	ND	ND	ND	ND	ND
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND	ND	ND	ND
o-Xylene	1.0	10.0	ND	ND	ND	ND	ND
m,p-Xylenes	1.0	20.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	77682.08	77682.09	77682.17	77682.18	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125	111	108	110	108	95.9	
Dibromofluoromethane	75-125	100	101	94.6	99.5	98.1	
Toluene-d8	75-125	105	105	106	105	105	



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## ANALYTICAL RESULTS

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### Site

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Page: 7

Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0725152A1

Our Lab I.D.			77682.22	77682.23			
Client Sample I.D.			B4-5'	B4-10'			
Date Sampled			07/17/2015	07/17/2015			
Date Prepared			07/25/2015	07/25/2015			
Preparation Method			5030	5030			
Date Analyzed			07/25/2015	07/25/2015			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
Acetone	25	50	ND	ND			
Benzene	1.0	10.0	ND	ND			
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND			
Bromochloromethane	5.0	10.0	ND	ND			
Bromodichloromethane	5.0	10.0	ND	ND			
Bromoform (Tribromomethane)	25	50	ND	ND			
Bromomethane (Methyl bromide)	15	30	ND	ND			
2-Butanone (MEK)	25	50	ND	ND			
n-Butylbenzene	5.0	10.0	ND	ND			
sec-Butylbenzene	5.0	10.0	ND	ND			
tert-Butylbenzene	5.0	10.0	ND	ND			
Carbon Disulfide	25	50	ND	ND			
Carbon tetrachloride	5.0	10.0	ND	ND			
Chlorobenzene	5.0	10.0	ND	ND			
Chloroethane	15	30	ND	ND			
2-Chloroethyl vinyl ether	50	50	ND	ND			
Chloroform (Trichloromethane)	5.0	10.0	ND	ND			
Chloromethane (Methyl chloride)	15	30	ND	ND			
2-Chlorotoluene	5.0	10.0	ND	ND			
4-Chlorotoluene	5.0	10.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	25	50	ND	ND			
Dibromochloromethane	5.0	10.0	ND	ND			
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND			
Dibromomethane	5.0	10.0	ND	ND			
1,2-Dichlorobenzene	5.0	10.0	ND	ND			
1,3-Dichlorobenzene	5.0	10.0	ND	ND			
1,4-Dichlorobenzene	5.0	10.0	ND	ND			





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## ANALYTICAL RESULTS

Page: 8

Project ID: 15-120SD  
 Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0725152A1

Our Lab I.D.			77682.22	77682.23			
Client Sample I.D.			B4-5'	B4-10'			
Date Sampled			07/17/2015	07/17/2015			
Date Prepared			07/25/2015	07/25/2015			
Preparation Method			5030	5030			
Date Analyzed			07/25/2015	07/25/2015			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
Dichlorodifluoromethane	15	30	ND	ND			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	2.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	1.5	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			



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## ANALYTICAL RESULTS

Page: 9

Project ID: 15-120SD  
Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0725152A1

Our Lab I.D.			77682.22	77682.23			
Client Sample I.D.			B4-5'	B4-10'			
Date Sampled			07/17/2015	07/17/2015			
Date Prepared			07/25/2015	07/25/2015			
Preparation Method			5030	5030			
Date Analyzed			07/25/2015	07/25/2015			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
1,2,3-Trichloropropane	5.0	10.0	ND	ND			
1,2,4-Trimethylbenzene	5.0	10.0	ND	ND			
1,3,5-Trimethylbenzene	5.0	10.0	ND	ND			
Vinyl Acetate	25	50	ND	ND			
Vinyl chloride (Chloroethene)	5.0	10.0	ND	ND			
o-Xylene	1.0	10.0	ND	ND			
m,p-Xylenes	1.0	20.0	ND	ND			
Our Lab I.D.			77682.22	77682.23			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Bromofluorobenzene	75-125		109	93.3			
Dibromofluoromethane	75-125		99.4	98.7			
Toluene-d8	75-125		105	106			



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## QUALITY CONTROL RESULTS

### Ordered By

Advantage Environmental Consultants  
 145 Vallecitos De Oro  
 Suite 201  
 San Marcos, CA 92069-

### Site

585 22nd Street  
 Oakland, CA 94612

Telephone: (760)744-3363

Attn: Dan Weis

Page: 10

Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0723152C1; Dup or Spiked Sample: 77673.17; LCS: Clean Sand; QC Prepared: 07/23/2015; QC Analyzed: 07/24/2015;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	46.2	92.4	50.0	46.5	93.0	<1	75-125	<15
Arsenic	1.16	50.0	45.9	89.5	50.0	46.3	90.3	<1	75-125	<15
Barium	11.0	50.0	55.0	88.0	50.0	55.6	89.2	1.35	75-125	<15
Beryllium	0.00	50.0	49.6	99.2	50.0	50.2	100	<1	75-125	<15
Cadmium	0.00	50.0	43.0	86.0	50.0	43.5	87.0	1.16	75-125	<15
Chromium	16.1	50.0	51.0 #	69.8	50.0	51.5 #	70.8	1.42	75-125	<15
Cobalt	1.42	50.0	45.9	89.0	50.0	46.0	89.2	<1	75-125	<15
Copper	1.95	50.0	46.4	88.9	50.0	46.8	89.7	<1	75-125	<15
Lead	3.17	50.0	42.5	78.7	50.0	43.0	79.7	1.26	75-125	<15
Mercury (By EPA 7471)	0.0620	0.500	0.559	99.4	0.500	0.538	95.2	4.3	75-125	<15
Molybdenum	2.22	50.0	48.5	92.6	50.0	48.7	93.0	<1	75-125	<15
Nickel	1.77	50.0	44.9	86.3	50.0	45.0	86.5	<1	75-125	<15
Selenium	0.00	50.0	44.8	89.6	50.0	44.8	89.6	<1	75-125	<15
Silver	0.00	50.0	41.9	83.8	50.0	42.3	84.6	<1	75-125	<15
Thallium	0.00	50.0	37.9	75.8	50.0	38.3	76.6	1.05	75-125	<15
Vanadium	21.7	50.0	67.8	92.2	50.0	68.4	93.4	1.29	75-125	<15
Zinc	6.83	50.0	50.3	86.9	50.0	50.9	88.1	1.37	75-125	<15

QC Batch No: 0723152C1; Dup or Spiked Sample: 77673.17; LCS: Clean Sand; QC Prepared: 07/23/2015; QC Analyzed: 07/24/2015;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	46.8	93.6	50.0	47.2	94.4	<1	75-125	<15
Arsenic	50.0	45.3	90.6	50.0	45.7	91.4	<1	75-125	<15
Barium	50.0	46.4	92.8	50.0	46.7	93.4	<1	75-125	<15
Beryllium	50.0	51.5	103	50.0	51.4	103	<1	75-125	<15
Cadmium	50.0	43.5	87.0	50.0	43.7	87.4	<1	75-125	<15
Chromium	50.0	46.1	92.2	50.0	46.4	92.8	<1	75-125	<15
Cobalt	50.0	43.3	86.6	50.0	43.7	87.4	<1	75-125	<15
Copper	50.0	46.7	93.4	50.0	47.1	94.2	<1	75-125	<15
Lead	50.0	40.5	81.0	50.0	40.7	81.4	<1	75-125	<15



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## QUALITY CONTROL RESULTS

Page: 11

Project ID: 15-120SD  
 Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0723152C1; Dup or Spiked Sample: 77673.17; LCS: Clean Sand; QC Prepared: 07/23/2015; QC Analyzed: 07/24/2015;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.430	86.0	0.500	0.404	80.8	6.2	75-125	<15	
Molybdenum	50.0	49.9	99.8	50.0	50.3	101	1.20	75-125	<15	
Nickel	50.0	42.6	85.2	50.0	42.6	85.2	<1	75-125	<15	
Selenium	50.0	45.0	90.0	50.0	45.3	90.6	<1	75-125	<15	
Silver	50.0	43.4	86.8	50.0	43.8	87.6	<1	75-125	<15	
Thallium	50.0	39.6	79.2	50.0	40.2	80.4	1.50	75-125	<15	
Vanadium	50.0	47.7	95.4	50.0	48.0	96.0	<1	75-125	<15	
Zinc	50.0	44.4	88.8	50.0	44.6	89.2	<1	75-125	<15	



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## QUALITY CONTROL RESULTS

### Ordered By

Advantage Environmental Consultants  
 145 Vallecitos De Oro  
 Suite 201  
 San Marcos, CA 92069-

### Site

585 22nd Street  
 Oakland, CA 94612

Telephone: (760)744-3363

Attn: Dan Weis

Page: 12

Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77682	07/21/2015	AEC

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0725152A1; Dup or Spiked Sample: 77682.08; LCS: Clean Sand; QC Prepared: 07/25/2015; QC Analyzed: 07/25/2015;  
 Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	34.5 M	69.0	50.0	33.9 M	67.8	1.75	75-125	<20
Chlorobenzene	0.00	50.0	33.0 M	66.0	50.0	33.4 M	66.8	1.20	75-125	<20
1,1-Dichloroethene	0.00	50.0	37.7	75.4	50.0	36.0 M	72.0	4.61	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	28.0 M	56.0	50.0	26.9 M	53.8	4.01	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	34.5 M	69.0	50.0	35.8 M	71.6	3.70	75-125	<20
Trichloroethene	0.00	50.0	35.1 M	70.2	50.0	35.1 M	70.2	<1	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	50.0	51.5	103	50.0	51.5	103	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	46.5	92.9	50.0	46.5	92.9	<1	75-125	<20
Toluene-d8	0.00	50.0	51.5	103	50.0	51.5	103	<1	75-125	<20

QC Batch No: 0725152A1; Dup or Spiked Sample: 77682.08; LCS: Clean Sand; QC Prepared: 07/25/2015; QC Analyzed: 07/25/2015;  
 Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzene	50.0	43.5	87.0	50.0	43.4	87.0	<1	75-125	<20
Chlorobenzene	50.0	46.4	92.8	50.0	45.7	91.0	1.96	75-125	<20
1,1-Dichloroethene	50.0	41.6	83.2	50.0	39.5	79.0	5.18	75-125	<20
Methyl-tert-butyl ether (MTBE)	50.0	40.2	80.4	50.0	41.8	84.0	4.38	75-125	<20
Toluene (Methyl benzene)	50.0	44.7	89.4	50.0	44.6	89.0	<1	75-125	<20
Trichloroethene	50.0	43.5	87.0	50.0	43.3	87.0	<1	75-125	<20
<b>LCS</b>									
Chloroform (Trichloromethane)	50.0	41.7	83.4	50.0	42.9	86.0	3.07	75-125	<20
Ethylbenzene	50.0	52.9	106	50.0	51.4	103	2.87	75-125	<20
1,1,1-Trichloroethane	50.0	49.2	98.4	50.0	48.1	96.0	2.47	75-125	<20
o-Xylene	50.0	47.1	94.2	50.0	46.1	92.0	2.36	75-125	<20
m,p-Xylenes	100	95.4	95.4	100	93.3	93.3	2.23	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	50.0	51.8	104	50.0	52.3	105	<1	75-125	<20
Dibromofluoromethane	50.0	43.5	86.9	50.0	38.6	77.2	11.2	75-125	<20
Toluene-d8	50.0	51.2	102	50.0	50.9	102	<1	75-125	<20



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



Report for:

**Mr. Dan Weis**  
**Advantage Environmental Consultants, LLC**  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

---

Regarding: Project: 15-12050; 585 22nd Street, Oakland  
EML ID: 1397484

Approved by:

Dates of Analysis:  
Asbestos PLM: 07-29-2015

Approved Signatory  
Noah Lazarte

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

---

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.



Client: Advantage Environmental Consultants, LLC  
 C/O: Mr. Dan Weis  
 Re: 15-12050; 585 22nd Street, Oakland

Date of Sampling: 07-17-2015  
 Date of Receipt: 07-23-2015  
 Date of Report: 07-29-2015

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**

**Total Samples Submitted:** 12

**Total Samples Analyzed:** 12

**Total Samples with Layer Asbestos Content > 1%:** 0

**Location: B1-1'**

Lab ID-Version‡: 6428653-1

Sample Layers	Asbestos Content
Black Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: B1-5'**

Lab ID-Version‡: 6428655-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: B2-1'**

Lab ID-Version‡: 6428658-1

Sample Layers	Asbestos Content
Black Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: B2-3'**

Lab ID-Version‡: 6428659-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Advantage Environmental Consultants, LLC  
 C/O: Mr. Dan Weis  
 Re: 15-12050; 585 22nd Street, Oakland

Date of Sampling: 07-17-2015  
 Date of Receipt: 07-23-2015  
 Date of Report: 07-29-2015

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**

**Location: B3-1'**

Lab ID-Version‡: 6428662-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: B3-5'**

Lab ID-Version‡: 6428664-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: B4-1'**

Lab ID-Version‡: 6428667-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: B4-3'**

Lab ID-Version‡: 6428668-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b>	Good

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‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Advantage Environmental Consultants, LLC  
 C/O: Mr. Dan Weis  
 Re: 15-12050; 585 22nd Street, Oakland

Date of Sampling: 07-17-2015  
 Date of Receipt: 07-23-2015  
 Date of Report: 07-29-2015

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116**

**Location: B5-1'**

Lab ID-Version‡: 6428672-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: B5-5'**

Lab ID-Version‡: 6428674-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: B6-1'**

Lab ID-Version‡: 6428676-1

Sample Layers	Asbestos Content
Dark Brown Soil	ND
<b>Composite Non-Asbestos Content:</b>	< 1% Cellulose
<b>Sample Composite Homogeneity:</b> Good	

**Location: B6-3'**

Lab ID-Version‡: 6428677-1

Sample Layers	Asbestos Content
Brown Soil	ND
<b>Sample Composite Homogeneity:</b> Good	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 \* (866) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Moderate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heavy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REQUESTER  
(Use check)  
1397484

Non-Culturable	Culture	BioCassette™, Ana. Water, Bulk, Dust, Soil, Contact Plates
Spore Trap	Tape Swab Bulk	
Fungi - Spore Trap Analysis	Spore Trap Analysis - Other perishes	Direct Microscopic Exam (Qualitative)
	Quantitative Spore Count/Weed Exam	1-Media Surface Fungi (Genus ID + Asp. spp.)
	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)
	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)
	Legionella culture	Total Coliform, E. coli (Presence/Absence)
	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)
	Quantal Tray - Sewage Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)
		Asbestos Analysis - PLM (EPA method 600/4-93-115)
		PCR (specify test)

CONTACT INFORMATION						
Company:	Advantage Env. Cons.		Address: 145 Vallecitos De Oro Ste. 201			
Contact:	Dan Weis		Special Instructions: San Marcos, CA 9206A			
Phone:	(760) 744-3363					
PROJECT INFORMATION			TURN AROUND TIME CODES (TAT)			
Project ID:	15-12080		STD - Standard (DEFAULT)	Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.		
Project Description:	585 22nd Street, Oakland		ND - Next Business Day			
Project Zip Code:	94612	Sampling Date & Time:	7/17/15			SD - Same Business Day Rush
PO Number:		Sampled By:	SS			WH - Weekend / Holiday
Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	
B1-1'		SOIL			10:15 am	
B1-3'					10:18	
B1-5'					10:22	
B1-10'					10:30	
B1-15'					10:32	
B2-1'					11:30	
B2-3'					11:31	
B2-15'					11:35	
B2-15'					11:40	
B3-1'					1:30 pm	
B3-3'					1:32	

SAMPLE TYPE CODES				RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
BC - BioCassette™	ST - Spore Trap; Zefon, Allergenco, Burkard ...	T - Tape	D - Dust			Christina Chilton	7/23/15 3:56
A1S - Anderson	P - Potable Water	SW - Swab	SO - Soil				
SAS - Surface Air Sampler	NP - Non-Potable Water	B - Bulk					
CP - Contact Plates		Q - Other:					

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at <http://www.emlab.com/main/service/terms.htm>  
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Phoenix, AZ: 1501 West Kiersten drive, Phoenix, AZ 85027 \* (800) 651-4802  
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 \* (886) 888-6653

Weather	Fog	Rain	Snow	Wind	Clear
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Moderate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heavy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REQ  
(U)



1397484

CONTACT INFORMATION	
Company: <b>Adventure End Cons.</b>	Address: <b>145 Vallecitos de Oro Ste. 201</b>
Contact: <b>Dan Wells</b>	Special Instructions: <b>San Marcos, CA 92064</b>
Phone: <b>(760) 744-3363</b>	

PROJECT INFORMATION		TURN AROUND TIME CODES (TAT)	
Project ID: <b>15-120SP</b>		STD - Standard (DEFAULT)	Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.
Project Description: <b>585 22nd Street Oakland</b>		ND - Next Business Day	
Project Zip Code: <b>94612</b>	Sampling Date & Time: <b>7/17/15</b>	SD - Same Business Day Rush	
PO Number:	Sampled By: <b>SS</b>	WH - Weekend / Holiday	

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
B3-5'		SOIL			1:34
B3-10'					1:36
B3-15'					1:38
B4-1'					1:50
B4-3'					1:53
B4-5'					1:54
B4-10'					1:58
B4-15'					2:20
B5-1'					2:50
B5-3'					2:54
B5-5'					2:58
B5-10'					3:00

Non-Culturable		Spore Trap	Tape Swab Bulk	BioCassette	Water, Bulk, Dust, Soil, Contact Plates											
Fungi - Spore Trap Analysis	Spore Trap Analysis - Other particles	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count Direct Exam	1-Media Surface Fungi (Genus ID + App. spp.)	2-Media Surface Fungi (Genus ID + App. spp.)	3-Media Surface Fungi (Genus ID + App. spp.)	Culturable Air Fungi (Genus ID + App. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)	Quant. Tray - Sewage Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PUM (EPA method 8080r-93-116)	PCR (specify test)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SAMPLE TYPE CODES				RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
BC - BioCassette™	ST - Spore Trap: Zefon, Allergenco, Burkard ...	T - Tape	D - Dust			<i>Christa Clinton</i>	7/23/15
A15 - Anderson		SW - Swab	SO - Soil				
SAS - Surface Air Sampler	P - Potable Water	B - Bulk					
CP - Contact Plate	NP - Non-Potable Water	O - Other					
							<b>3:57</b>

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at <https://www.emlab.com/main/service/terms.html>

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 \* (866) 871-1984  
Phoenix, AZ: 1501 West Knudson drive, Phoenix, AZ 85027 \* (800) 651-4802  
San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 \* (866) 883-6653

Weather	Fog	Rain	Snow	Wind	Clear
None	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Moderate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heavy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REQUIREMENTS  
(Use of)



Non-Culturable	1397484															
Spore Trap	Tape Swab Bulk	BioCassette™ Water, Bulk, DUST, SOIL Contact Plates														
Fungi - Spore Trap Analysis	Spore Trap Analysis - Other Genotypes	Direct Microscopic Exam (Qualitative)	Quantitative Spore Count (Direct Exam)	1-Media Surface Fungi (Genus ID + Asp. spp.)	2-Media Surface Fungi (Genus ID + Asp. spp.)	3-Media Surface Fungi (Genus ID + Asp. spp.)	Culturable Air Fungi (Genus ID + Asp. spp.)	Gram Stain & Counts (Culturable Air & Surface Bacteria)	Legionella culture	Total Coliform, E. coli (Presence/Absence)	Membrane Filtration (specify organism)	MPN Bacteria (specify organism)	Quant. Tray - Sewage Screen	Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	Asbestos Analysis - PLM (EPA method 600/4-03-116)	PCR (specify test)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

CONTACT INFORMATION						
Company:	Advantage Env. Cons		Address: 145 Vallecitos de Oro Ste. 201			
Contact:	Dan Wells		Special Instructions: San Marcos, CA 92066			
Phone:	(760) 744-3363					
PROJECT INFORMATION			TURN AROUND TIME CODES (TAT)			
Project ID:	15-120SD		STD - Standard (DEFAULT)	Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.		
Project Description:	585 22nd Street, Oakland		ND - Next Business Day			
Project Zip Code:	94612	Sampling Date & Time:	7/17/15			SD - Same Business Day Rush
PO Number:		Sampled By:	SS			WH - Weekend / Holiday
Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)	
BC-1'		SOIL			10:00 am	
BC-3'		↓			10:01	
BC-5'		↓			10:04	
BC-10'		↓			10:06	
BC-15'		↓			10:08	

SAMPLE TYPE CODES				RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME
BC - BioCassette™	ST - Spore Trap: Zefon, Allergenco, Burkard ...	T - Tape	D - Dust			Christina Chilton	7/23/15 3:56
AIS - Anderson	P - Potable Water	SW - Swab	SO - Soil				
SAS - Surface Air Sampler	MP - Non-Potable Water	B - Bulk					
CP - Contact Plate		O - Other					

By submitting this Chain of Custody, you agree to be bound by the terms and conditions set forth at <http://www.emlab.com/s/maj/serviceterms.html>

**APPENDIX C**

**SOIL GAS ANALYTICAL LABORATORY REPORT**

27 July 2015



Mr. Daniel Weis  
Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

H&P Project: ADV072015-10  
Client Project: 15-120SD / Oakland, CA

Dear Mr. Daniel Weis:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 20-Jul-15 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

A handwritten signature in cursive script that reads "Janis Villarreal".

Janis Villarreal  
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.



Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV1-5'	E507087-01	Vapor	17-Jul-15	20-Jul-15
SV1-10'	E507087-02	Vapor	17-Jul-15	20-Jul-15
SV2-5'	E507087-03	Vapor	17-Jul-15	20-Jul-15
SV2-10'	E507087-04	Vapor	17-Jul-15	20-Jul-15
SV3-5'	E507087-05	Vapor	17-Jul-15	20-Jul-15
SV3-10'	E507087-06	Vapor	17-Jul-15	20-Jul-15

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**DETECTIONS SUMMARY**

Sample ID: **SV1-5'**

Laboratory ID: **E507087-01**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	3.7	2.1		ug/m3	EPA TO-15	
Acetone	470	24		ug/m3	EPA TO-15	
Carbon disulfide	98	6.3		ug/m3	EPA TO-15	
2-Butanone (MEK)	150	30		ug/m3	EPA TO-15	
Chloroform	29	4.9		ug/m3	EPA TO-15	
Benzene	40	3.2		ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	16	8.3		ug/m3	EPA TO-15	
Toluene	46	3.8		ug/m3	EPA TO-15	
Ethylbenzene	7.8	4.4		ug/m3	EPA TO-15	
m,p-Xylene	14	8.8		ug/m3	EPA TO-15	
Styrene	6.5	4.3		ug/m3	EPA TO-15	
o-Xylene	6.4	4.4		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	7.8	5.0		ug/m3	EPA TO-15	

Sample ID: **SV1-10'**

Laboratory ID: **E507087-02**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	3.8	2.1		ug/m3	EPA TO-15	
Acetone	160	24		ug/m3	EPA TO-15	
Carbon disulfide	52	6.3		ug/m3	EPA TO-15	
2-Butanone (MEK)	61	30		ug/m3	EPA TO-15	
Benzene	26	3.2		ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	14	8.3		ug/m3	EPA TO-15	
Toluene	37	3.8		ug/m3	EPA TO-15	
Ethylbenzene	6.8	4.4		ug/m3	EPA TO-15	
m,p-Xylene	14	8.8		ug/m3	EPA TO-15	
Styrene	5.3	4.3		ug/m3	EPA TO-15	
o-Xylene	5.5	4.4		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	5.1	5.0		ug/m3	EPA TO-15	

Sample ID: **SV2-5'**

Laboratory ID: **E507087-03**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	2.7	2.1		ug/m3	EPA TO-15	
Acetone	430	24		ug/m3	EPA TO-15	
Carbon disulfide	28	6.3		ug/m3	EPA TO-15	
2-Butanone (MEK)	86	30		ug/m3	EPA TO-15	

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

Sample ID: SV2-5'

Laboratory ID: E507087-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chloroform	400	4.9	ug/m3	EPA TO-15	
Benzene	14	3.2	ug/m3	EPA TO-15	
Toluene	28	3.8	ug/m3	EPA TO-15	
m,p-Xylene	9.5	8.8	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	7.3	5.0	ug/m3	EPA TO-15	

Sample ID: SV2-10'

Laboratory ID: E507087-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chloromethane	3.6	2.1	ug/m3	EPA TO-15	
Acetone	230	24	ug/m3	EPA TO-15	
Carbon disulfide	26	6.3	ug/m3	EPA TO-15	
2-Butanone (MEK)	56	30	ug/m3	EPA TO-15	
Benzene	14	3.2	ug/m3	EPA TO-15	
Toluene	22	3.8	ug/m3	EPA TO-15	
Ethylbenzene	4.7	4.4	ug/m3	EPA TO-15	
m,p-Xylene	8.8	8.8	ug/m3	EPA TO-15	

Sample ID: SV3-5'

Laboratory ID: E507087-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chloromethane	3.9	2.1	ug/m3	EPA TO-15	
Acetone	280	24	ug/m3	EPA TO-15	
Carbon disulfide	32	6.3	ug/m3	EPA TO-15	
2-Butanone (MEK)	82	30	ug/m3	EPA TO-15	
Chloroform	20	4.9	ug/m3	EPA TO-15	
Benzene	20	3.2	ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	17	8.3	ug/m3	EPA TO-15	
Toluene	28	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	28	6.9	ug/m3	EPA TO-15	
Ethylbenzene	4.4	4.4	ug/m3	EPA TO-15	
m,p-Xylene	9.3	8.8	ug/m3	EPA TO-15	
Styrene	4.7	4.3	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	7.0	5.0	ug/m3	EPA TO-15	

Sample ID: SV3-10'

Laboratory ID: E507087-06

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Chloromethane	4.3	2.1	ug/m3	EPA TO-15	

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

Sample ID: **SV3-10'**

Laboratory ID: **E507087-06**

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Acetone	200	24		ug/m3	EPA TO-15	
Carbon disulfide	17	6.3		ug/m3	EPA TO-15	
2-Butanone (MEK)	79	30		ug/m3	EPA TO-15	
Benzene	33	3.2		ug/m3	EPA TO-15	
4-Methyl-2-pentanone (MIBK)	16	8.3		ug/m3	EPA TO-15	
Toluene	40	3.8		ug/m3	EPA TO-15	
Tetrachloroethene	36	6.9		ug/m3	EPA TO-15	
Ethylbenzene	6.9	4.4		ug/m3	EPA TO-15	
m,p-Xylene	12	8.8		ug/m3	EPA TO-15	
Styrene	5.3	4.3		ug/m3	EPA TO-15	
o-Xylene	5.2	4.4		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	5.0	5.0		ug/m3	EPA TO-15	

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV1-5' (E507087-01) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
<b>Chloromethane</b>	<b>3.7</b>	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
<b>Acetone</b>	<b>470</b>	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>98</b>	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
<b>2-Butanone (MEK)</b>	<b>150</b>	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
<b>Chloroform</b>	<b>29</b>	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
<b>Benzene</b>	<b>40</b>	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>4-Methyl-2-pentanone (MIBK)</b>	<b>16</b>	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>46</b>	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>7.8</b>	4.4	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>14</b>	8.8	"	"	"	"	"	"	
<b>Styrene</b>	<b>6.5</b>	4.3	"	"	"	"	"	"	

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV1-5' (E507087-01) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
<b>o-Xylene</b>	<b>6.4</b>	<b>4.4</b>	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>7.8</b>	<b>5.0</b>	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.7 % 76-134 " " " "

Surrogate: Toluene-d8 104 % 78-125 " " " "

Surrogate: 4-Bromofluorobenzene 100 % 77-127 " " " "

<b>SV1-10' (E507087-02) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
<b>Chloromethane</b>	<b>3.8</b>	<b>2.1</b>	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
<b>Acetone</b>	<b>160</b>	<b>24</b>	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>52</b>	<b>6.3</b>	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
<b>2-Butanone (MEK)</b>	<b>61</b>	<b>30</b>	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
<b>Benzene</b>	<b>26</b>	<b>3.2</b>	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SVI-10' (E507087-02) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Trichloroethene	ND	5.5	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>4-Methyl-2-pentanone (MIBK)</b>	<b>14</b>	<b>8.3</b>	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>37</b>	<b>3.8</b>	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>6.8</b>	<b>4.4</b>	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>14</b>	<b>8.8</b>	"	"	"	"	"	"	
<b>Styrene</b>	<b>5.3</b>	<b>4.3</b>	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>5.5</b>	<b>4.4</b>	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>5.1</b>	<b>5.0</b>	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<hr/>									
Surrogate: 1,2-Dichloroethane-d4		95.4 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		104 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	77-127		"	"	"	"	

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV2-5' (E507087-03) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
<b>Chloromethane</b>	<b>2.7</b>	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
<b>Acetone</b>	<b>430</b>	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>28</b>	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
<b>2-Butanone (MEK)</b>	<b>86</b>	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
<b>Chloroform</b>	<b>400</b>	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
<b>Benzene</b>	<b>14</b>	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>28</b>	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>9.5</b>	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	



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145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
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Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV2-5' (E507087-03) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
o-Xylene	ND	4.4	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>7.3</b>	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.5 %	76-134	"	"	"	"	"	"	
<i>Surrogate: Toluene-d8</i>	103 %	78-125	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.9 %	77-127	"	"	"	"	"	"	

**SV2-10' (E507087-04) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15**

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
<b>Chloromethane</b>	<b>3.6</b>	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
<b>Acetone</b>	<b>230</b>	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>26</b>	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
<b>2-Butanone (MEK)</b>	<b>56</b>	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
<b>Benzene</b>	<b>14</b>	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

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San Marcos, CA 92069

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV2-10' (E507087-04) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Trichloroethene	ND	5.5	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>22</b>	<b>3.8</b>	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>4.7</b>	<b>4.4</b>	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>8.8</b>	<b>8.8</b>	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<hr/>									
Surrogate: 1,2-Dichloroethane-d4		95.6 %		76-134	"	"	"	"	
Surrogate: Toluene-d8		105 %		78-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		77-127	"	"	"	"	

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV3-5' (E507087-05) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
<b>Chloromethane</b>	<b>3.9</b>	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
<b>Acetone</b>	<b>280</b>	24	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>32</b>	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
<b>2-Butanone (MEK)</b>	<b>82</b>	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
<b>Chloroform</b>	<b>20</b>	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
<b>Benzene</b>	<b>20</b>	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>4-Methyl-2-pentanone (MIBK)</b>	<b>17</b>	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>28</b>	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>28</b>	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>4.4</b>	4.4	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>9.3</b>	8.8	"	"	"	"	"	"	
<b>Styrene</b>	<b>4.7</b>	4.3	"	"	"	"	"	"	

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**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV3-5' (E507087-05) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
o-Xylene	ND	4.4	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>7.0</b>	<b>5.0</b>	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 97.3 % 76-134 " " " "

Surrogate: Toluene-d8 104 % 78-125 " " " "

Surrogate: 4-Bromofluorobenzene 100 % 77-127 " " " "

<b>SV3-10' (E507087-06) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
<b>Chloromethane</b>	<b>4.3</b>	<b>2.1</b>	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
<b>Acetone</b>	<b>200</b>	<b>24</b>	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
<b>Carbon disulfide</b>	<b>17</b>	<b>6.3</b>	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
<b>2-Butanone (MEK)</b>	<b>79</b>	<b>30</b>	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
<b>Benzene</b>	<b>33</b>	<b>3.2</b>	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15**

**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<b>SV3-10' (E507087-06) Vapor Sampled: 17-Jul-15 Received: 20-Jul-15</b>									
Trichloroethene	ND	5.5	ug/m3	1	EG52705	24-Jul-15	24-Jul-15	EPA TO-15	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>4-Methyl-2-pentanone (MIBK)</b>	<b>16</b>	<b>8.3</b>	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
<b>Toluene</b>	<b>40</b>	<b>3.8</b>	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>36</b>	<b>6.9</b>	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>6.9</b>	<b>4.4</b>	"	"	"	"	"	"	
<b>m,p-Xylene</b>	<b>12</b>	<b>8.8</b>	"	"	"	"	"	"	
<b>Styrene</b>	<b>5.3</b>	<b>4.3</b>	"	"	"	"	"	"	
<b>o-Xylene</b>	<b>5.2</b>	<b>4.4</b>	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>5.0</b>	<b>5.0</b>	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
<hr/>									
Surrogate: 1,2-Dichloroethane-d4		96.7 %		76-134	"	"	"	"	
Surrogate: Toluene-d8		106 %		78-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		77-127	"	"	"	"	

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EG52705 - TO-15**

**Blank (EG52705-BLK1)**

Prepared & Analyzed: 24-Jul-15

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3							
Chloromethane	ND	2.1	"							
Dichlorotetrafluoroethane (F114)	ND	7.1	"							
Vinyl chloride	ND	2.6	"							
Bromomethane	ND	16	"							
Chloroethane	ND	8.0	"							
Trichlorofluoromethane (F11)	ND	5.6	"							
Acetone	ND	24	"							
1,1-Dichloroethene	ND	4.0	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"							
Methylene chloride (Dichloromethane)	ND	3.5	"							
Carbon disulfide	ND	6.3	"							
trans-1,2-Dichloroethene	ND	8.0	"							
1,1-Dichloroethane	ND	4.1	"							
2-Butanone (MEK)	ND	30	"							
cis-1,2-Dichloroethene	ND	4.0	"							
Chloroform	ND	4.9	"							
1,1,1-Trichloroethane	ND	5.5	"							
1,2-Dichloroethane (EDC)	ND	4.1	"							
Benzene	ND	3.2	"							
Carbon tetrachloride	ND	6.4	"							
Trichloroethene	ND	5.5	"							
1,2-Dichloropropane	ND	9.4	"							
Bromodichloromethane	ND	6.8	"							
cis-1,3-Dichloropropene	ND	4.6	"							
4-Methyl-2-pentanone (MIBK)	ND	8.3	"							
trans-1,3-Dichloropropene	ND	4.6	"							
Toluene	ND	3.8	"							
1,1,2-Trichloroethane	ND	5.5	"							
2-Hexanone (MBK)	ND	8.3	"							
Dibromochloromethane	ND	8.6	"							
Tetrachloroethene	ND	6.9	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,1,1,2-Tetrachloroethane	ND	7.0	"							

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EG52705 - TO-15**

**Blank (EG52705-BLK1)**

Prepared & Analyzed: 24-Jul-15

Chlorobenzene	ND	4.7	ug/m3							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
Styrene	ND	4.3	"							
o-Xylene	ND	4.4	"							
Bromoform	ND	10	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	12	"							
1,4-Dichlorobenzene	ND	12	"							
1,2-Dichlorobenzene	ND	12	"							
1,2,4-Trichlorobenzene	ND	38	"							
Hexachlorobutadiene	ND	54	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	207		"	214		96.4	76-134			
<i>Surrogate: Toluene-d8</i>	216		"	207		104	78-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	362		"	364		99.3	77-127			

**LCS (EG52705-BS1)**

Prepared & Analyzed: 24-Jul-15

Dichlorodifluoromethane (F12)	82	5.0	ug/m3	101		81.5	70-130			
Vinyl chloride	43	2.6	"	52.0		82.0	70-130			
Chloroethane	46	8.0	"	53.6		85.5	70-130			
Trichlorofluoromethane (F11)	90	5.6	"	113		79.5	70-130			
1,1-Dichloroethene	78	4.0	"	80.8		97.0	70-130			
1,1,2-Trichlorotrifluoroethane (F113)	140	7.7	"	155		88.6	70-130			
Methylene chloride (Dichloromethane)	65	3.5	"	70.8		91.8	70-130			
trans-1,2-Dichloroethene	81	8.0	"	80.8		99.7	70-130			
1,1-Dichloroethane	81	4.1	"	82.4		98.1	70-130			
cis-1,2-Dichloroethene	84	4.0	"	80.0		105	70-130			
Chloroform	90	4.9	"	99.2		90.7	70-130			
1,1,1-Trichloroethane	100	5.5	"	111		90.2	70-130			
1,2-Dichloroethane (EDC)	73	4.1	"	82.4		88.7	70-130			

Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

**Volatile Organic Compounds by EPA TO-15 - Quality Control**  
**H&P Mobile Geochemistry, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EG52705 - TO-15**

**LCS (EG52705-BS1)**

Prepared & Analyzed: 24-Jul-15

Benzene	69	3.2	ug/m3	64.8		106	70-130			
Carbon tetrachloride	120	6.4	"	128		92.3	70-130			
Trichloroethene	100	5.5	"	110		94.7	70-130			
Toluene	77	3.8	"	76.8		99.8	70-130			
1,1,2-Trichloroethane	110	5.5	"	111		100	70-130			
Tetrachloroethene	130	6.9	"	138		93.9	70-130			
1,1,1,2-Tetrachloroethane	130	7.0	"	140		93.2	70-130			
Ethylbenzene	100	4.4	"	88.4		113	70-130			
m,p-Xylene	190	8.8	"	177		109	70-130			
o-Xylene	92	4.4	"	88.4		104	70-130			
1,1,2,2-Tetrachloroethane	140	7.0	"	140		102	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>198</i>		<i>"</i>	<i>214</i>		<i>92.5</i>	<i>76-134</i>			
<i>Surrogate: Toluene-d8</i>	<i>217</i>		<i>"</i>	<i>207</i>		<i>105</i>	<i>78-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>380</i>		<i>"</i>	<i>364</i>		<i>104</i>	<i>77-127</i>			



Advantage Environmental Consultants, LLC  
145 Vallecitos De Oro, Suite 201  
San Marcos, CA 92069

Project: ADV072015-10  
Project Number: 15-120SD / Oakland, CA  
Project Manager: Mr. Daniel Weis

Reported:  
27-Jul-15 12:36

### Notes and Definitions

LCC      Leak Check Compound  
ND      Analyte NOT DETECTED at or above the reporting limit  
MDL      Method Detection Limit  
%REC      Percent Recovery  
RPD      Relative Percent Difference

### Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at [www.handpmg.com/about/certifications](http://www.handpmg.com/about/certifications).

Lab Client and Project Information		
Lab Client/Consultant: <u>AEC</u>	Project Name / #: <u>15-120SD</u>	
Lab Client Project Manager: <u>Dan Weis</u>	Project Location: <u>Oakland, CA</u>	
Lab Client Address: <u>145 Vallecitos de Oro</u>	Report E-Mail(s): <u>Dweis@aec-env.com</u>	
Lab Client City, State, Zip: <u>San Marcos, CA 92069</u>	<u>sschiffer@aec-env.com</u>	
Phone Number: <u>760-744-3363</u>		
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV	<input checked="" type="checkbox"/> 5-7 day Std <input type="checkbox"/> 24-Hr Rush	Sampler(s): <u>Scott Schiffer</u>
<input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____	<input type="checkbox"/> 3-day Rush <input type="checkbox"/> Mobile Lab	Signature: <u>[Signature]</u>
<input type="checkbox"/> CA Geotracker Global ID: _____	<input type="checkbox"/> 48-Hr Rush <input type="checkbox"/> Other: _____	Date: <u>7/17/15</u>

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>7/20/15</u>	Control #: <u>150590.01</u>
H&P Project # <u>ADV072015-10</u>	
Lab Work Order # <u>ES07087</u>	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: <u>11167</u>	Temp: <u>23°C</u>
Outside Lab:	
Receipt Notes/Tracking #: <u>GSOAB108149346</u>	
Lab PM Initials: <u>WA</u>	

**Additional Instructions to Laboratory:**

Check if Project Analyte List is Attached

\* Preferred VOC units (please choose one):

µg/L  µg/m<sup>3</sup>  ppbv  ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		Oxygenates	Naphthalene	TPHv as Gas	TPHv as Diesel (sorber tube)	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945
								<input type="checkbox"/> 8260SV	<input checked="" type="checkbox"/> TO-15								
<u>SV1-5'</u>	<u>B1</u>	<u>7/17/15</u>	<u>5:10</u>	<u>SU</u>	<u>400ml</u>	<u>343</u>	<u>-12.26</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SV1-10'</u>	<u>B1</u>		<u>5:00</u>	<u>SU</u>		<u>144</u>	<u>-5.26</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SV2-5'</u>			<u>5:40</u>	<u>SU</u>		<u>264</u>	<u>-1.47</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SV2-10'</u>			<u>5:31</u>	<u>SU</u>		<u>243</u>	<u>-6.81</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SV3-5'</u>			<u>6:00</u>	<u>SU</u>		<u>365</u>	<u>-85</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>SV3-10'</u>			<u>5:50</u>	<u>SV</u>		<u>011</u>	<u>-71</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Approved/Relinquished by: <u>Scott Schiffer</u> [Signature]	Company: <u>AEC</u>	Date: <u>7/17/15</u>	Time: <u>7:30</u>	Received by: <u>Jon Unsworth</u> [Signature]	Company: <u>H&amp;P</u>	Date: <u>7/20/15</u>	Time: <u>9:15</u>
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

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

**APPENDIX D**

**GROUNDWATER ANALYTICAL LABORATORY REPORT**



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Advantage Environmental Consultants  
145 Vallecitos De Oro Suite 201  
San Marcos, CA 92069-

Number of Pages 6  
Date Received 07/21/2015  
Date Reported 07/29/2015

Telephone: (760)744-3363  
Attention: Dan Weis

Job Number	Order Date	Client
77681	07/21/2015	AEC

Project ID: 15-120SD  
Project Name: 585 22nd Street  
Site: 585 22nd Street  
Oakland, CA 94612

Enclosed please find results of analyses of 3 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



American Environmental Testing Laboratory Inc.  
2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

# CHAIN OF CUSTODY RECORD

No 90991

COMPANY (AETC) Advantage Env. Cons. PROJECT MANAGER Dan Weis  
 COMPANY ADDRESS PHONE PROJECT # 15-120SD  
 145 Vallecitos De Oro Ste. 201  
 PROJECT NAME San Marcos, CA 9206a  
 SITE NAME AND ADDRESS 585 22nd Street, Calaveras PO #

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
Gw1-15	77681-01	7/17/15	10:30am	Ground water	3	ICE
Gw2-15	<del>01</del>	7/17/15	1:30pm		3	ICE
Gw3-15	<del>01</del>	7/17/15	2:30pm		3	ICE

VCS

AETL JOB No. 77681 Page 1 of 1

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS

### SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 9

CUSTOMY SEALS: Y  W  NA

RECEIVED IN GOOD COND.  Y  N

TURN AROUND TIME:  NORMAL  RUSH

SAME DAY  
 NEXT DAY  
 2 DAYS  
 3 DAYS

HARD COPY  
 PDF  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

PROPERLY COOLED Y / N / NA:  Y /  N /  NA

SAMPLES INTACT Y / N / NA:  Y /  N /  NA

SAMPLES ACCEPTED Y / N:  Y /  N

DATA DELIVERABLE REQUIRED:  HARD COPY

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

RELINQUISHED BY SAMPLER: Signature: [Signature] Date: 7/17/15 Time: 9:20pm

Signature: [Signature] Date: 7/17/15 Time: 9:20pm

Printed Name: Scott Schiffer

RECEIVED BY: 1. Signature: [Signature] Date: 7/17/15 Time: 9:20pm

RECEIVED BY: 2. Signature: [Signature] Date: 7/17/15 Time: 9:20pm

RELINQUISHED BY: 1. Signature: [Signature] Date: 7/17/15 Time: 9:20pm

RELINQUISHED BY: 2. Signature: [Signature] Date: 7/17/15 Time: 9:20pm

RELINQUISHED BY: 3. Signature: [Signature] Date: 7/17/15 Time: 9:20pm

DISTRIBUTION: WHITE - Laboratory. CANARY - Laboratory. PINK - Project/Account Manager. YELLOW - Sampler/Originator



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

### Ordered By

Advantage Environmental Consultants  
145 Vallecitos De Oro Suite 201  
San Marcos, CA 92069-

Project ID: 15-120SD  
Date Received 07/21/2015  
Date Reported 07/29/2015

Telephone: (760)744-3363  
Attention: Dan Weis

Job Number	Order Date	Client
77681	07/21/2015	AEC

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 3 samples with the following specification on 07/21/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
77681.01	GW1-15'	07/17/2015	Aqueous	3
77681.02	GW2-15'	07/17/2015	Aqueous	3
77681.03	GW3-15'	07/17/2015	Aqueous	3

Method ^ Submethod	Req Date	Priority	TAT	Units
8260B	07/28/2015	2	Normal	ug/L

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Advantage Environmental Consultants  
 145 Vallecitos De Oro  
 Suite 201  
 San Marcos, CA 92069-

### Site

585 22nd Street  
 Oakland, CA 94612

Telephone: (760)744-3363

Attn: Dan Weis

Page: 2

Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77681	07/21/2015	AEC

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0722152A1

Our Lab I.D.			Method Blank	77681.01	77681.02	77681.03	
Client Sample I.D.				GW1-15'	GW2-15'	GW3-15'	
Date Sampled				07/17/2015	07/17/2015	07/17/2015	
Date Prepared			07/22/2015	07/22/2015	07/22/2015	07/22/2015	
Preparation Method			5030B	5030B	5030B	5030B	
Date Analyzed			07/22/2015	07/22/2015	07/22/2015	07/22/2015	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			ug/L	ug/L	ug/L	ug/L	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Acetone	10	10	ND	ND	ND	ND	
Benzene	0.5	1.0	ND	ND	ND	ND	
Bromobenzene (Phenyl bromide)	0.5	1.0	ND	ND	ND	ND	
Bromochloromethane	0.5	1.0	ND	ND	ND	ND	
Bromodichloromethane	0.5	1.0	ND	ND	ND	ND	
Bromoform (Tribromomethane)	2.5	5.0	ND	ND	ND	ND	
Bromomethane (Methyl bromide)	1.5	3.0	ND	ND	ND	ND	
2-Butanone (MEK)	5.0	5.0	ND	ND	ND	ND	
n-Butylbenzene	0.5	1.0	ND	ND	ND	ND	
sec-Butylbenzene	0.5	1.0	ND	ND	ND	ND	
tert-Butylbenzene	0.5	1.0	ND	ND	ND	ND	
Carbon Disulfide	0.5	1.0	ND	ND	ND	ND	
Carbon tetrachloride	0.5	1.0	ND	ND	ND	ND	
Chlorobenzene	0.5	1.0	ND	ND	ND	ND	
Chloroethane	1.5	3.0	ND	ND	ND	ND	
2-Chloroethyl vinyl ether	2.5	5.0	ND	ND	ND	ND	
Chloroform (Trichloromethane)	0.5	1.0	ND	ND	ND	ND	
Chloromethane (Methyl chloride)	1.5	3.0	ND	ND	ND	ND	
2-Chlorotoluene	0.5	1.0	ND	ND	ND	ND	
4-Chlorotoluene	0.5	1.0	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropane (DBCP)	2.5	5.0	ND	ND	ND	ND	
Dibromochloromethane	0.5	1.0	ND	ND	ND	ND	
1,2-Dibromoethane (EDB)	0.5	1.0	ND	ND	ND	ND	
Dibromomethane	0.5	1.0	ND	ND	ND	ND	
1,2-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,3-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,4-Dichlorobenzene	0.5	1.0	ND	ND	ND	ND	



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## ANALYTICAL RESULTS

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Project ID: 15-120SD  
 Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77681	07/21/2015	AEC

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0722152A1

Our Lab I.D.			Method Blank	77681.01	77681.02	77681.03	
Client Sample I.D.				GW1-15'	GW2-15'	GW3-15'	
Date Sampled				07/17/2015	07/17/2015	07/17/2015	
Date Prepared			07/22/2015	07/22/2015	07/22/2015	07/22/2015	
Preparation Method			5030B	5030B	5030B	5030B	
Date Analyzed			07/22/2015	07/22/2015	07/22/2015	07/22/2015	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			ug/L	ug/L	ug/L	ug/L	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Dichlorodifluoromethane	1.5	3.0	ND	ND	ND	ND	
1,1-Dichloroethane	0.5	1.0	ND	ND	ND	ND	
1,2-Dichloroethane (EDC)	0.5	1.0	ND	ND	ND	ND	
1,1-Dichloroethene	0.5	1.0	ND	ND	ND	ND	
cis-1,2-Dichloroethene	0.5	1.0	ND	ND	ND	ND	
trans-1,2-Dichloroethene	0.5	1.0	ND	ND	ND	ND	
1,2-Dichloropropane	0.5	1.0	ND	ND	ND	ND	
1,3-Dichloropropane	0.5	1.0	ND	ND	ND	ND	
2,2-Dichloropropane	0.5	1.0	ND	ND	ND	ND	
1,1-Dichloropropene	0.5	1.0	ND	ND	ND	ND	
cis-1,3-Dichloropropene	0.5	1.0	ND	ND	ND	ND	
trans-1,3-Dichloropropene	0.5	1.0	ND	ND	ND	ND	
Ethylbenzene	0.5	1.0	ND	ND	ND	ND	
Hexachlorobutadiene	1.5	3.0	ND	ND	ND	ND	
2-Hexanone	2.5	5.0	ND	ND	ND	ND	
Iodomethane	0.5	1.0	ND	ND	ND	ND	
Isopropylbenzene	0.5	1.0	ND	ND	ND	ND	
p-Isopropyltoluene	0.5	1.0	ND	ND	ND	ND	
4-Methyl-2-pentanone (MIBK)	2.5	5.0	ND	ND	ND	ND	
Methyl-tert-butyl ether (MTBE)	0.5	1.0	ND	ND	ND	ND	
Methylene chloride (DCM)	2.0	4.0	ND	ND	ND	ND	
Naphthalene	0.5	1.0	ND	ND	ND	ND	
n-Propylbenzene	0.5	1.0	ND	ND	ND	ND	
Styrene	0.5	1.0	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	0.5	1.0	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	0.5	1.0	ND	ND	ND	ND	
Tetrachloroethene	0.5	1.0	ND	ND	ND	ND	
Toluene (Methyl benzene)	0.5	1.0	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.5	1.0	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.5	1.0	ND	ND	ND	ND	
1,1,2-Trichloroethane	0.5	1.0	ND	ND	ND	ND	
Trichloroethene	0.5	1.0	ND	ND	ND	ND	
Trichlorofluoromethane	0.5	1.0	ND	ND	ND	ND	





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## ANALYTICAL RESULTS

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Project ID: 15-120SD  
 Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77681	07/21/2015	AEC

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0722152A1

Our Lab I.D.			Method Blank	77681.01	77681.02	77681.03	
Client Sample I.D.				GW1-15'	GW2-15'	GW3-15'	
Date Sampled				07/17/2015	07/17/2015	07/17/2015	
Date Prepared			07/22/2015	07/22/2015	07/22/2015	07/22/2015	
Preparation Method			5030B	5030B	5030B	5030B	
Date Analyzed			07/22/2015	07/22/2015	07/22/2015	07/22/2015	
Matrix			Aqueous	Aqueous	Aqueous	Aqueous	
Units			ug/L	ug/L	ug/L	ug/L	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
1,2,3-Trichloropropane	0.5	1.0	ND	ND	ND	ND	
Trichlorotrifluoroethane (Freon-113)	0.5	1.0	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	0.5	1.0	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	0.5	1.0	ND	ND	ND	ND	
Vinyl Acetate	0.5	5.0	ND	ND	ND	ND	
Vinyl chloride (Chloroethene)	0.5	3.0	ND	ND	ND	ND	
o-Xylene	0.5	1.0	ND	ND	ND	ND	
m,p-Xylenes	1.0	2.0	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	77681.01	77681.02	77681.03	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Bromofluorobenzene	75-125		91.4	90.8	91.8	90.6	
Dibromofluoromethane	75-125		83.7	100	98.2	98.0	
Toluene-d8	75-125		103	105	104	104	



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## QUALITY CONTROL RESULTS

### Ordered By

Advantage Environmental Consultants  
 145 Vallecitos De Oro  
 Suite 201  
 San Marcos, CA 92069-

### Site

585 22nd Street  
 Oakland, CA 94612

Telephone: (760)744-3363

Attn: Dan Weis

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Project ID: 15-120SD

Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77681	07/21/2015	AEC

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0722152A1; Dup or Spiked Sample: B0722152A1; LCS: Clean Water; QC Prepared: 07/22/2015; QC Analyzed: 07/22/2015;  
 Units: ug/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	46.0	92.0	50.0	43.7	87.4	5.13	75-125	<20
Chlorobenzene	0.00	50.0	44.3	88.6	50.0	41.4	82.8	6.77	75-125	<20
1,1-Dichloroethene	0.00	50.0	44.6	89.2	50.0	46.5	93.0	4.17	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	52.0	104	50.0	56.0	112	7.41	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	45.7	91.4	50.0	43.6	87.2	4.70	75-125	<20
Trichloroethene	0.00	50.0	46.8	93.6	50.0	44.1	88.2	5.94	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	50.0	44.2	88.4	50.0	45.2	90.4	2.26	75-125	<20
Dibromofluoromethane	0.00	50.0	43.6	87.2	50.0	51.0	102	17.0	75-125	<20
Toluene-d8	0.00	50.0	49.3	98.6	50.0	49.5	98.9	<1	75-125	<20

QC Batch No: 0722152A1; Dup or Spiked Sample: B0722152A1; LCS: Clean Water; QC Prepared: 07/22/2015; QC Analyzed: 07/22/2015;  
 Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzene	50.0	45.6	91.2	50.0	45.1	90.0	1.32	75-125	<20
Chlorobenzene	50.0	44.3	88.6	50.0	43.3	87.0	1.82	75-125	<20
1,1-Dichloroethene	50.0	43.6	87.2	50.0	44.9	90.0	3.16	75-125	<20
Methyl-tert-butyl ether (MTBE)	50.0	50.9	102	50.0	50.6	101	<1	75-125	<20
Toluene (Methyl benzene)	50.0	45.8	91.6	50.0	45.1	90.0	1.76	75-125	<20
Trichloroethene	50.0	46.8	93.6	50.0	46.2	92.0	1.72	75-125	<20
<b>LCS</b>									
Chloroform (Trichloromethane)	50.0	49.9	99.8	50.0	42.5	85.0	16.0	75-125	<20
Ethylbenzene	50.0	50.3	101	50.0	48.7	97.0	4.04	75-125	<20
1,1,1-Trichloroethane	50.0	46.1	92.2	50.0	45.7	91.0	1.31	75-125	<20
o-Xylene	50.0	41.6	83.2	50.0	40.5	81.0	2.68	75-125	<20
m,p-Xylenes	100	91.8	91.8	100	89.6	89.6	2.43	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	50.0	44.1	88.1	50.0	44.3	88.6	<1	75-125	<20
Dibromofluoromethane	50.0	53.8	108	50.0	42.5	85.0	21.3	75-125	<20



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## QUALITY CONTROL RESULTS

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Project ID: 15-120SD  
Project Name: 585 22nd Street

AETL Job Number	Submitted	Client
77681	07/21/2015	AEC

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0722152A1; Dup or Spiked Sample: B0722152A1; LCS: Clean Water; QC Prepared: 07/22/2015; QC Analyzed: 07/22/2015;  
Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Toluene-d8	50.0	49.7	99.4	50.0	47.8	95.7	3.72	75-125	<20	



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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