



LIMITED PHASE II SUBSURFACE INVESTIGATION REPORT



2222-2224 SOUTH ESCONDIDO BLVD., ESCONDIDO, CALIFORNIA

Prepared For:

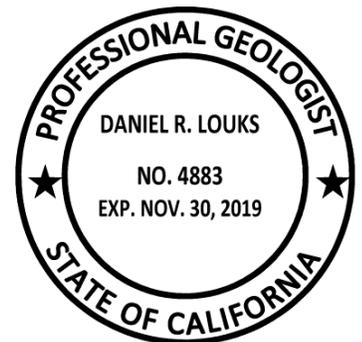
Warmington Residential
3090 Pullman Street
Costa Mesa, CA 92626

Hillmann Project Number C3-7322

November 8, 2018

Written By:
Hillmann Consulting, LLC

Dan Louks
Professional Geologist 4883



Your Property. Our Priority.

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November 8, 2018

Mr. William Inghram
Warmington Residential
3090 Pullman Street
Costa Mesa, CA 92626

RE: Limited Phase II Subsurface Investigation Report
2222-2224 South Escondido Boulevard
Escondido, California
Hillmann Project Number: C3-7322

Dear Mr. Inghram:

Hillmann Consulting, LLC, is pleased to provide this Limited Phase II Subsurface Investigation Report prepared for the above referenced property.

This report is for the exclusive use of the entities named on the front cover, its affiliates, designates and assignees, rating agencies, prospective bond holders and bond holders, and no other party shall have any right to rely on any service provided by Hillmann Consulting, LLC, without prior written consent.

We appreciate the opportunity to provide environmental due diligence services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact the Project Manager at 714-634-9500.

Very Truly Yours,
Hillmann Consulting, LLC

Brandon Clements
Partner; Western Regional Director

Your Property. Our Priority.

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TABLE OF CONTENTS

1.0 INTRODUCTION / BACKGROUND.....1
2.0 GEOLOGY/HYDROGEOLOGY1
3.0 SITE INVESTIGATION.....2
 3.1 Laboratory Results3
4.0 CONCLUSIONS AND RECOMMENDATIONS3
5.0 LIMITATIONS4

LIST OF TABLES

- TABLE 1 - Summary of Soil Sampling Results
- TABLE 1A - Summary of Heavy Metal Results

- TABLE 2 - Summary of Soil Gas Sampling Results

LIST OF FIGURES

- FIGURE 1 - Site Vicinity Map

- FIGURE 2 - General Site Plan

LIST OF APPENDICES

- APPENDIX A - Site Photos

- APPENDIX B - Laboratory Reports

- APPENDIX C - Drilling Logs

- APPENDIX D - Soil Gas Monitoring Data

1.0 INTRODUCTION / BACKGROUND

Hillmann Consulting, LLC (Hillmann) conducted a Limited Phase II Subsurface Investigation at 2222-2224 South Escondido Blvd., Escondido, California (**Figure 1**). The subject Property is located on the east side of South Escondido Boulevard between Brotherton Road and Sherman Way in a mixed use commercial-residential section of Escondido. The Property occupies 2.74 acres and includes a commercial building that was constructed in 1949 and a residence built in 1979. The Property is being considered for redevelopment for residential purposes.

In October 2018, Hillmann completed a Phase I Environmental Site Assessment for the Property. Results indicate the Property has been operated as a welding shop and a junkyard from around 1949 to the present. There is the potential for soil contamination from heavy metals, TPH, PCBs, and VOCs due to past and current operation as a junkyard, and this was identified as a recognized environmental condition that justified preliminary subsurface investigation. These results are presented in Hillmann's "Phase I Environmental Site Assessment Report" dated October 19, 2018.

In October 2018, Hillmann completed a Limited Phase II Subsurface Investigation at the Property that included soil and soil gas sampling to identify potential contamination from the historical operations at the site. The current investigation is an independent assessment of the site that was constrained by time and cost factors as part of a self-directed effort. The objective of this work was to determine the current representative subsurface conditions in targeted areas of the site. This investigation was not intended to meet the more stringent requirements of a regulatory driven assessment.

The investigation featured soil gas sampling which was considered very important in determining future possible vapor intrusion impacts. Results from soil gas sampling indicated low levels of PCE which are slightly above current DTSC screening levels for future residential construction, indicating a potential vapor intrusion risk that requires additional investigation. In addition, a couple of samples had high concentrations of heavy metals including lead and cadmium that exceed current residential screening levels. These results indicate additional site assessment of the Property is warranted.

2.0 GEOLOGY/HYDROGEOLOGY

Based on the drilling logs, shallow soils beneath the site consist primarily of silty clay in the upper 4 feet of section, the deepest interval explored by drilling in this investigation. Groundwater was not encountered during drilling to 4 feet below grade. Descriptions of the sediments encountered during drilling are presented in the drilling logs (**Appendix C**).

Based on information available on the GeoTracker website, groundwater is present at about 18-36 feet below grade and flows southeast at a site located 500 feet south of the Property (Former Arco Station 1948, 2306 S. Escondido Blvd., Escondido-Global ID T0607301190).

3.0 SITE INVESTIGATION

On October 24, 2018, Hillmann installed 8 borings (HSB1-HSB8) in targeted locations across the Property including inside the welding shop and near the junk yard piles. The borings were installed to 3-4 feet below grade using a using a roto-hammer and drill bit and hand auger tool. The locations of the borings are indicated on **Figure 2**.

During drilling, the soil column was logged by a California Professional Geologist and the soil was screened in the field using a photo-ionization detector (PID). Soil samples were obtained at 0.25 to 0.5 and at 2.5 feet below grade and were preserved for laboratory analysis. The shallow sample from each boring was analyzed for carbon chain hydrocarbons corresponding to gasoline, diesel fuel, and oil weights (C4-C12, C13-C22, and C23-C40 ranges, respectively) by EPA Method 8015M and for heavy metal content by EPA Method 6010B. A&R Laboratories of Ontario, California analyzed the samples.

Five of the eight borings (HB1-HB5) were completed as temporary soil gas sampling probes (HSG1-HSG5) with sampling tips set at 3-4 feet below grade. The probes consist of plastic micro-porous vapor implants that are approximately 2 inches long with a 0.5-inch outside diameter, connected to 0.25-inch outside diameter Nylaflow tubing that extended above the surface. The annulus around the vapor implants was backfilled with approximately 0.5 feet of screen-washed #3 sand. The probes were sealed using bentonite placed immediately above the sand pack to provide a secure borehole seal. The probes were finished with gas-tight fittings at the surface pending vapor purging and sampling.

The soil gas sampling probes were allowed to equilibrate for about 4 hours before collecting vapor samples. Prior to vapor sampling, shut-in and leak tests were conducted on the probes. The probe head was attached to the sampling train assembly of Nylaflow tubing, valves, and fittings and connected to a purge pump. The pump was used to evacuate the sealed system using an applied vacuum of 100 inches of water column (in. WC). The vacuum on each probe was monitored for 90 seconds with the sampling train system sealed. After the shut-in test was validated, the sampling train was leak tested. Liquid isobutylene was applied around all connections in the sampling train to evaluate whether the system was sealed from ambient air leaks. A detection of 10 times the reporting limit of this compound might suggest that ambient air leakage had occurred.

The purpose of purging is to remove stagnant air from the vapor sampling train to ensure representative samples are obtained. The probes were purged using an adjustable vacuum pump set at 200 mL/minute. During purging, the soil gas was monitored for VOC, oxygen, and carbon dioxide content using a Mini-Rae 2000 multi gas detector to ensure that non-atmospheric formation air was being sampled (**Appendix D**).

After purging three volumes through the system, vapor samples were collected from the probes on October 24, 2018. During sampling, the purge pump was operated at 200 mL/minute, and the vacuum was monitored to ensure it was below 100 in. WC. Vacuum applied below this level helps ensure chemical partitioning from pore water to soil gas and the stress on the air seals are both minimized. The samples were containerized in Tedlar bags which were delivered to the laboratory for analysis. Fresh tubing was used on each sampling train between holes.

The soil gas samples were tested for VOC using EPA Method 8260B by A&R Laboratories of Ontario, California.

3.1 Laboratory Results

Results from soil sampling indicated two samples had detectable levels of petroleum hydrocarbons with 15 mg/Kg diesel range hydrocarbons in sample HB3-0.5 and 18 mg/Kg diesel range hydrocarbons in sample HB6-0.5. These results are summarized in **Table 1**. The results from heavy metal analysis indicated two samples had significant concentrations that exceed current DTSC residential screening levels. Sample HB3-0.5 had 22.9 mg/Kg cadmium and 394 mg/Kg lead, exceeding the DTSC Screening Levels of 5.2 and 80 mg/Kg, for these respective metals. In addition, sample HB7-0.25 had 146 mg/Kg lead. To determine if these concentrations persisted with depth or were limited to the very shallow surficial soil, the deeper sample in each boring (HB3-2.5 and HB7-2.5) was analyzed for cadmium and lead. Results indicated the deeper samples in both locations were well below current screening levels (no detectable cadmium and maximum of 3.61 mg/Kg lead). These results are summarized in **Table 1A**. The laboratory reports from soil sampling are included in **Appendix B**.

Results from soil gas sampling indicated four of the five soil gas samples had detectable levels of VOC including toluene and tetrachloroethene (PCE). The toluene concentrations ranged from 0.10 to 0.14 ug/L and the PCE levels ranged from 0.80 to 0.84 ug/L. No other VOC was detected in the samples. The detected concentrations were compared to the Regional Screening Level (RSL) guidelines provided by EPA and modified by DTSC for use in California. These guidelines are based on human health risk factors for residential and industrial settings and are commonly used as screening tools. The screening criteria uses defined indoor air concentrations based on human health risk factors that are modified using a default attenuation factor provided by DTSC for soil gas. The attenuation factor for new residential construction is 0.001. Results indicated the toluene levels were all well below the screening criteria, however each of the detected PCE concentrations slightly exceed the future construction residential screening level of 0.46 ug/L for PCE. These results are summarized in **Table 1**. The laboratory report from soil gas sampling is included in **Appendix B**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The subject site is a junkyard and welding shop that has been in operation from 1949 to the present. The eastern portion of the Property also includes a residence. The Property is being considered for redevelopment as housing. The historical and current site use was identified as a recognized environmental condition that justified preliminary subsurface investigation to assess possible environmental concerns given the proposed sensitive redevelopment plan.

In October 2018, Hillmann installed 7 soil borings in targeted areas of the site including the welding shop and the junkyard areas. Results from soil sampling indicated significant concentrations of lead in cadmium in two areas that exceed current residential screening levels. Deeper soil sampling in each location at 2.5 feet below grade indicates the impacted soil is limited the very near surface soil. However, the impacted soil in these areas will need to be addressed by excavation and removal after defining the extents of contamination.

The results from soil gas sampling indicate three samples obtained in the welding shop area had PCE levels that exceed the screening criteria for future residential development. This area will require additional sampling to define the extent and magnitude of contamination. If additional sampling indicates significant concentrations of PCE persist with depth, remediation of the vapor intrusion risk may be required. Based on these results, Hillmann recommends additional sampling with a supplemental subsurface investigation to further define these areas of concern. This should include deeper soil gas sampling in the welding shop area and collection of additional soil samples around HB3 and HB7.

5.0 LIMITATIONS

This Subsurface Investigation was performed in accordance with generally and currently accepted engineering practices and principles; however, the procedures and methodologies used in this investigation are not intended to meet all specific regulatory guidelines as this work was completed as a self-directed effort. Although the data in this report is indicative of subsurface conditions in areas investigated, no further conclusions regarding the absence or presence of subsurface contamination in other areas of the site should be construed or inferred other than those expressly stated in this report. The conclusions made are based on information obtained from field observations, independent laboratory analytical results, and from current and relevant Federal, State, regional, and local agencies.

TABLE 1
Summary of Soil Sampling Results (mg/Kg)

Sample ID	Heavy Metals Above Screening Levels	PCBs	TPHg C4-C12	TPHd C13-C22	TPH-Oil C23-C40
Sampled October 24, 2018					
HB1-0.5	None	--	ND<0.20	ND<10	ND<20
HB2-0.5	None	--	ND<0.20	ND<10	ND<20
HB3-0.5	Lead, Cadmium	--	ND<0.20	15	ND<20
HB3-2.5	None	--	--	--	--
HB4-0.25	None	--	ND<0.20	ND<10	ND<20
HB5-0.5	None	--	ND<0.20	ND<10	ND<20
HB6-0.5	None	--	ND<0.20	18	ND<20
HB7-0.25	Lead	--	ND<0.20	ND<10	ND<20
HB7-2.5	None	--	--	--	--
HB8-0.25	None	--	ND<0.20	ND<10	ND<20
SFRWQCB Tier 1 ESL	--	Var.	100	230	5,100

Notes: ND - Not Detected. San Francisco Regional Water Quality Control Board Environmental Screening Levels (SFRWQCB ESLs) are human health risk based screening levels based on a generic site conceptual model designed for use at residential sites (Tier 1). Please refer to lab report for complete results.

TABLE 1A
Summary of Heavy Metal Results (mg/Kg)

Sample ID	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
Sampled October 24, 2018										
HB1-0.5	ND<1	75.6	ND<0.5	38.7	8.72	16.8	19.4	6.23	53.6	44.2
HB2-0.5	ND<1	73.9	ND<0.5	50.2	9.08	38.6	70.1	7.42	58.9	51.9
HB3-0.5	3.53	195	22.9	163	21.7	175	394	52.0	56.0	1,480
HB3-2.5	-	--	ND<0.5	--	--	--	2.28	--	--	--
HB4-0.25	3.33	336	1.36	70.3	6.42	65.0	23.0	36.6	27.9	256
HB5-0.5	ND<1	78.2	ND<0.5	19.1	6.76	11.0	13.1	4.28	28.4	29.8
HB6-0.5	ND<1	76.7	ND<0.5	37.5	8.51	13.8	20.8	6.07	52.0	224
HB7-0.25	ND<1	69.7	2.94	45.0	7.55	22.7	146	8.14	51.3	129
HB7-2.5	--	--	ND<0.5	--	--	--	3.61	--	--	--
HB8-0.25	ND<1	82.0	0.557	42.7	8.48	20.0	10.5	8.59	50.4	46.0
Residential RSL	0.11	15,000	5.2*	36,000	23	3,100	80*	490*	390*	23,000
Industrial RSL	0.36	220,000	7.3*	170,000	350	47,000	320*	3,100*	1,000*	350,000
DTSC Bkgrnd	12	--	--	--	--	--	--	--	--	--

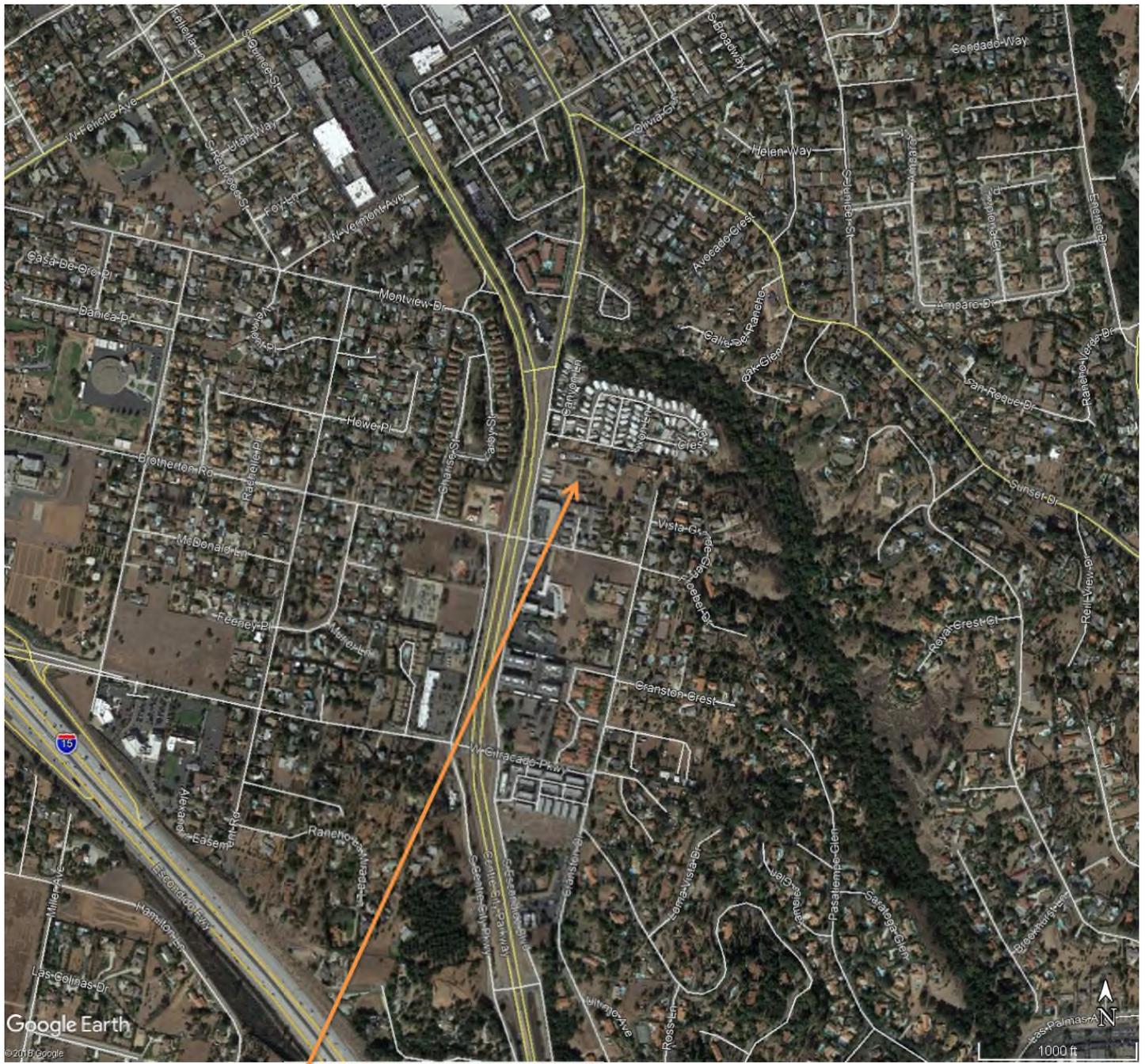
Notes: ND - Not Detected. EPA Regional Screening Levels (RSLs) are human health risk based screening levels used by EPA and DTSC in residential and commercial settings. DTSC Background Concentration is based on statistical study of sites throughout southern California. This concentration may be used as a screening level for anthropogenic and naturally occurring levels of arsenic in soil in southern California. * - Values modified by DTSC HERO Note 3. Please refer to lab report for complete results.

TABLE 2
Summary of Soil Gas Sampling Results (ug/L)

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	TCE	PCE	Other VOC
Sampled October 24, 2018							
HSG1-3	ND<0.05	0.14	ND<0.1	ND<0.2	ND<0.1	0.81	ND
HSG2-3	ND<0.05	0.10	ND<0.1	ND<0.2	ND<0.1	0.80	ND
HSG3-4	ND<0.05	0.13	ND<0.1	ND<0.2	ND<0.1	0.84	ND
HSG4-4	ND<0.05	0.11	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND
HSG5-4	ND<0.05	ND<0.1	ND<0.1	ND<0.2	ND<0.1	ND<0.1	ND
<i>Future Residential RSL</i>	<i>0.097*</i>	<i>310*</i>	<i>1.1</i>	<i>100</i>	<i>0.48</i>	<i>0.46*</i>	<i>--</i>
<i>Commercial RSL</i>	<i>0.42*</i>	<i>1,300*</i>	<i>4.9</i>	<i>440</i>	<i>3.0</i>	<i>2.0*</i>	<i>--</i>

*Notes: ND - Not Detected. EPA Regional Screening Levels (RSLs) are human health risk based screening levels used by EPA and DTSC to determine Health Risk in residential and commercial settings. Future Residential accounts for improved construction methods in new buildings. *-Values modified for California by DTSC HERO Note 3. Screening levels for soil gas calculated using indoor air values and attenuation factors provided by DTSC. Please refer to laboratory report for complete results.*

FIGURES



SITE

FIGURE 1

SITE VICINITY MAP
COMMERCIAL PROPERTY
2222-2224 South Escondido Boulevard
Escondido, California



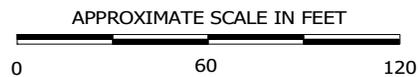
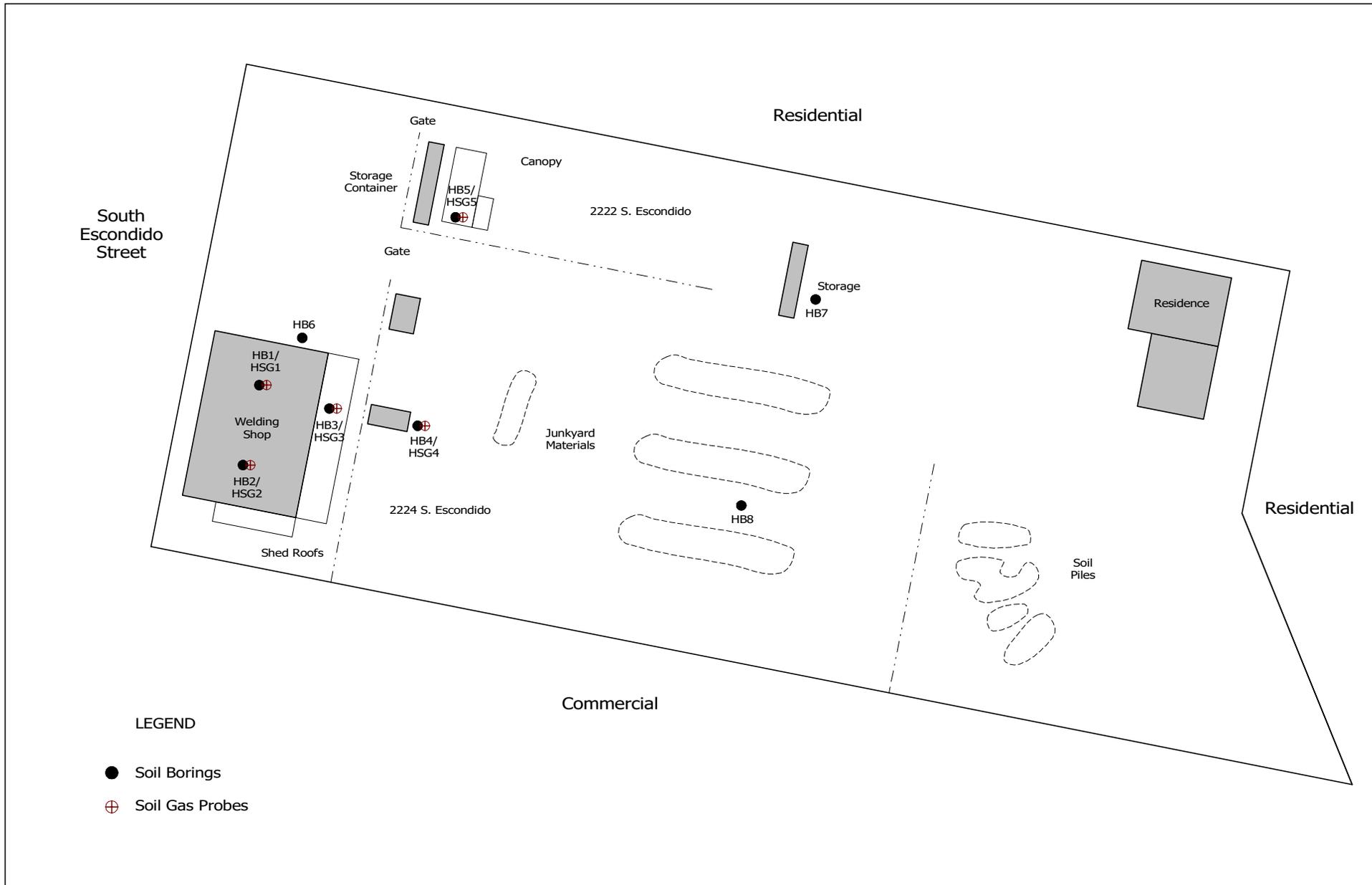


FIGURE 2
GENERAL SITE PLAN
COMMERCIAL PROPERTY
 2222-2224 South Escondido Boulevard
 Escondido, California

APPENDIX A

Site Photos



HB1/HSG1



HB2/HSG2



HB3/HSG3



HB4/HSG4



HB5/HSG5



HB6



HB7



HB8

APPENDIX B

Laboratory Reports



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ELAP#s	2789
	2790
	2122

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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President
10/30/2018 14:23:08

Laboratory Job No. (Certificate of Analysis No.)

1810-00217

Project Name / No.

WELDING & JUNK YARD / ESCONDIDO, CA

Dates Sampled (from/to)

10/24/18 To 10/24/18

Dates Received (from/to)

10/24/18 To 10/24/18

Dates Reported (from/to)

10/30/18 To 10/30/2018

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual Units	RL	Sample	Analyte	Result	Qual Units	RL
HB3-0.5	C13-C22	15	mg/Kg	10	HB6-0.5	C13-C22	18	mg/Kg	10



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CERTIFICATE OF ANALYSIS

1810-00217

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Date Reported 10/30/18
Date Received 10/24/18
Invoice No. 83862
Cust # G073
Permit Number
Customer P.O.

Project: WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HB1-0.5							Date & Time Sampled: 10/24/18 @ 9:30	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	97		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	75.6		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	38.7		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	8.72		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	16.8		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	19.4		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	6.23		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	53.6		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	44.2		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ

Sample: 002 **HB2-0.5**

Sample Matrix: **Soil**

Date & Time Sampled: 10/24/18 @ 10:00

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory.

USDA-EPA-NIOSH Testing Food Sanitation Consulting Chemical and Microbiological Analyses and Research



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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 HB2-0.5							Date & Time Sampled: 10/24/18 @ 10:00	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	98		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	73.9		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	50.2		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	9.08		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	38.6		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	70.1		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	1.39		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	7.42		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	58.9		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	51.9		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ

Sample: 003 **HB3-0.5**
 Sample Matrix: **Soil**

Date & Time Sampled: 10/24/18 @ 10:20



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1810-00217

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Date Reported 10/30/18
Date Received 10/24/18
Invoice No. 83862
Cust # G073
Permit Number
Customer P.O.

Project: WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 HB3-0.5							Date & Time Sampled: 10/24/18 @ 10:20	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	15		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	96		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	3.53		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	195		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	22.9		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	163		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	21.7		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	175		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	394		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	9.86		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	52.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	56.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	1480		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ

Sample: 004 **HB4-0.25**
Sample Matrix: **Soil**

Date & Time Sampled: 10/24/18 @ 10:50



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 ORANGE, CA 92868

Date Reported 10/30/18
 Date Received 10/24/18
 Invoice No. 83862
 Cust # G073
 Permit Number
 Customer P.O.

Project: WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 HB4-0.25							Date & Time Sampled: 10/24/18 @ 10:50	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	96		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	3.33		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	336		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	1.36		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	70.3		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	6.42		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	65.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	23.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	4.99		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	36.6		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	27.9		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	256		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ

Sample: 005 **HB5-0.5**
 Sample Matrix: **Soil**

Date & Time Sampled: 10/24/18 @ 11:10



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Date Reported 10/30/18
Date Received 10/24/18
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Cust # G073
Permit Number
Customer P.O.

Project: WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 HB5-0.5							Date & Time Sampled: 10/24/18 @ 11:10	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	99		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	78.2		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	19.1		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	6.76		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	11.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	13.1		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	4.28		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	28.4		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	29.8		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ

Sample: 006 **HB6-0.5**

Sample Matrix: **Soil**

Date & Time Sampled: 10/24/18 @ 9:00

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ORANGE, CA 92868

Date Reported 10/30/18
Date Received 10/24/18
Invoice No. 83862
Cust # G073
Permit Number
Customer P.O.

Project: WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 006 HB6-0.5							Date & Time Sampled: 10/24/18 @ 9:00	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	18		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	96		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	76.7		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	37.5		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	8.51		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	13.8		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	20.8		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	6.07		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	52.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	224		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ

Sample: 007 **HB7-0.25**
Sample Matrix: **Soil**

Date & Time Sampled: 10/24/18 @ 11:45

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 Permit Number
 Customer P.O.

Project: WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 007 HB7-0.25							Date & Time Sampled: 10/24/18 @ 11:45	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	96		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	69.7		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	2.94		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	45.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	7.55		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	22.7		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	146		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	8.14		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	51.3		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	129		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ

Sample: 008 **HB8-0.25**
 Sample Matrix: **Soil**

Date & Time Sampled: 10/24/18 @ 12:30



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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 008 HB8-0.25							Date & Time Sampled: 10/24/18 @ 12:30	
Sample Matrix: Soil								
[TPH Gasoline C4-C12]								
Gasoline (C4-C12)	<0.20		mg/Kg	EPA 8015M	1.0	0.20	10/28/18	AL
[Extractable Hydrocarbons]								
Extraction	Complete			EPA 3550B	1.0		10/25/18	AL
C13-C22	<10		mg/Kg	EPA 8015B	1.0	10	10/26/18	AL
C23-C40	<20		mg/Kg	EPA 8015B	1.0	20	10/26/18	AL
[Surrogate]								
o-Terphenyl (OTP)	107		%REC	EPA 8015B		50-150	10/26/18	AL
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		10/26/18	TLB
Antimony	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Arsenic	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Barium	82.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Beryllium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cadmium	0.557		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Chromium	42.7		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Cobalt	8.48		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Copper	20.0		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Lead	10.5		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Molybdenum	<0.500		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Nickel	8.59		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Selenium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Silver	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Thallium	<1.00		mg/Kg	EPA 6010B	1.0	1.00	10/26/18	TLB
Vanadium	50.4		mg/Kg	EPA 6010B	1.0	0.500	10/26/18	TLB
Zinc	46.0		mg/Kg	EPA 6010B	1.0	5.00	10/26/18	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		10/26/18	KZ
Mercury	<0.20		mg/Kg	EPA 7471A	1.0	0.20	10/26/18	KZ



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Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications . The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING
 PACIFIC PALISADES, CA 90272

1810-00217

Date Reported 10/30/2018
 Date Received 10/24/2018
 Date Sampled 10/24/2018
 Invoice No. 83862
 Customer # G073
 Customer P.O.

Project: WELDING & JUNK YARD / ESCONDIDO, CA

Method #		EPA 6010B						
QC Reference #		77131		Date Analyzed: 10/26/2018		Technician: TLB		
Samples		001 002 003 004 005 006 007 008						
Results						Control Ranges		
		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD
Antimony		111	111	0.5	2.5	75 - 125	0 - 20	0 - 20
Arsenic		108	109	0.9	2.1	75 - 125	0 - 20	0 - 20
Barium		98	97	1.4	0.2	75 - 125	0 - 20	0 - 20
Beryllium		98	96	2.0	0.8	75 - 125	0 - 20	0 - 20
Cadmium		92	93	1.3	1.5	75 - 125	0 - 20	0 - 20
Chromium		106	104	2.3	1.0	75 - 125	0 - 20	0 - 20
Cobalt		101	102	0.5	0.8	75 - 125	0 - 20	0 - 20
Copper		102	100	1.6	1.0	75 - 125	0 - 20	0 - 20
Lead		105	104	0.8	2.6	75 - 125	0 - 20	0 - 20
Molybdenum		107	109	1.6	0.8	75 - 125	0 - 20	0 - 20
Nickel		105	105	0.1	1.6	75 - 125	0 - 20	0 - 20
Selenium		109	113	3.6	1.6	75 - 125	0 - 20	0 - 20
Silver		119	116	2.7	1.2	75 - 125	0 - 20	0 - 20
Thallium		104	99	4.9	6.1	75 - 125	0 - 20	0 - 20
Vanadium		104	102	1.5	0.9	75 - 125	0 - 20	0 - 20
Zinc		105	105	0.4	1.8	75 - 125	0 - 20	0 - 20

Method #		EPA 7471A								
QC Reference #		77133		Date Analyzed: 10/26/2018		Technician: KZ				
Samples		001 002 003 004 005 006 007 008								
Results						Control Ranges				
		LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	LCS %RPD	SPIKE %RPD
Mercury		90	88	2	82	90	8	75 - 125	0 - 25	0 - 25

Method #		EPA 8015B						
QC Reference #		77122		Date Analyzed: 10/26/2018		Technician: AL		
Samples		001 002 003 004 005 006 007 008						
Results						Control Ranges		
		LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	SPIKE %RPD	
C13-C22		97	97	100	3	70 - 130	0 - 25	

Method #		EPA 8015M						
QC Reference #		77170		Date Analyzed: 10/28/2018		Technician: AL		
Samples		001 002 003 004 005 006 007 008						
Results						Control Ranges		
		LCS %REC	SPIKE %REC	SPIKE %DUP	SPIKE %RPD	LCS %REC	SPIKE %RPD	
Gasoline (C4-C12)		103	88	110	22	70 - 130	0 - 25	



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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING

1810-00217

Date Reported 10/30/2018

Date Received 10/24/2018

Date Sampled 10/24/2018

Project: WELDING & JUNK YARD / ESCONDIDO, CA

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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CHAIN OF CUSTODY

A & R Work Order #:

1810-217

Page 1 of 1

Client Name HILLMAN CONSULTING		<input checked="" type="checkbox"/> Chilled		Analyses Requested										Turn Around Time Requested											
E-mail DAN@GSAENGINEERING.NET		<input checked="" type="checkbox"/> Intact												EPA8260B (VOCs & Oxygenates)		EPA8260B(BTEX & Oxygenates)		LUFT / 8015 (Gasoline)		LUFT / 8015 (Diesel)		EPA8081A (Organochlorine Pesticides)		EPA 8082 (PCBs)	
Address 1745 ORANGEWOOD AVE #110 ORANGE		Report Attention DAN L		Phone # 714 206 3916		Fax #		Sampled By D.L		Project No./ Name WELOENV + JUNK VALD												Project Site 22245 S. ESCONDIDO BLVD ESCONDIDO		Remarks	
Lab # (Lab use)	Client Sample ID	Sample Collection Date Time		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Remarks									
1	HB1-0.5	10-24-18	9:30	SOIL	ICE	1							X	X				X Run							
	HB1-2.5		9:40			1												Per on							
2	HB2-0.5		10:00			1							X	X				higher							
	HB2-2.5		10:15			1												IP Ho							
3	HB3-0.5		10:20			1							X	X				* Sample ID collected per Dan 10/25/18							
	HB3-2.5		10:30			1																			
4	HB4-0.25		10:50			1							X	X											
	HB4-2.5		11:00			1																			
5	HB5-0.25 0.5		11:10			1							X	X											
	HB5-2.5		11:20			1																			
6	HB6-0.5		9:00			1							X	X											
	HB6-2.5		9:15			1																			
7	HB7-0.25		11:45			1							X	X											
	HB7-2.5		12:00			1																			
8	HB8-0.25		12:30			1							X	X											
Relinquished by HB8-2.5		Company HILLMAN CONSULTING		Date 12-45		Time 17:15		Received By [Signature]		Company ARL		Date 10/24/18		Time 17:15		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.									
Relinquished by [Signature]		Company HILLMAN CONSULTING		Date 10/24/18		Time 17:15		Received By [Signature]		Company ARL		Date 10/24/18		Time 17:15											
Matrix Code:		DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste		SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product		Preservative Code		IC=Ice HC=HCl HN=HNO3		SH=NaOH ST=Na2S2O3 HS=H2SO4		* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST=Steel Tube		B= Brass Tube P=Plastic Bottle V=VOA Vial		E= EnCore									



Sample Acceptance Checklist

CLIENT: Hillman Consulting

WORK ORDER NUMBER: 1810-217

Temperature: (Criteria: 0.0°C-6.0°C)
 Sample Temp. (w/CF) °C(w/CF) 4.6°C

Sample(s) outside temperature criteria: PM contacted by : _____
 Sample(s) outside temperature criteria, but received on ice/chilled on same day of sampling.
 Sample(s) received at ambient temperature; placed on ice for transport by courier.
 Ambient Temperature Air Filter

CUSTODY SEAL:
 Cooler Present and Intact Present and Not Intact Not Present
 Sample(s) Present and Intact Present and Not Intact Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	<u>✓</u>		
Were sample IDs present?	<u>✓</u>		
Were sampling dates & times present?	<u>✓</u>		
Was a relinquished signature present?	<u>✓</u>		
Were the tests required clearly indicated?	<u>✓</u>		
Were all samples sealed in plastic bags?			<u>✓</u>
Did all bottle labels agree with COC? (ID, dates and times)	<u>✓</u>		
Were correct containers used for the tests required?	<u>✓</u>		
Was a sufficient amount of samples sent for tests indicated?	<u>✓</u>		
Was there headspace in VOA vials?			<u>✓</u>
Were the containers labeled with correct preservatives?	<u>✓</u>		

Explanations/Comments:

Notification:
 For discrepancies, how was the Project Manager notified? Verbal
 Verbal: PM Initials: _____ Data/Time: _____
 Email: Send to: _____ Data/Time: _____
 Project Manager's response: _____

Completed By: [Signature]

Date: 10-24-18



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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng

Ken Zheng, President
11/05/2018 12:47:51

Laboratory Job No. (Certificate of Analysis No.)

1811-00007

Project Name / No.

Add'l - WELDING & JUNK YARD

Dates Sampled (from/to)

10/24/18 To 10/24/18

Dates Received (from/to)

10/24/18 To 10/24/18

Dates Reported (from/to)

11/05/18 To 11/5/2018

Chains of Custody Received

Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None



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CERTIFICATE OF ANALYSIS

1811-00007

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
STE. 110
ORANGE, CA 92868

Project: Addt'l - WELDING & JUNK YARD

Date Reported 11/05/18
Date Received 10/24/18
Invoice No. 83902
Cust # G073
Permit Number
Customer P.O.

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HB3-2.5							Date & Time Sampled: 10/24/18 @ 10:30	
Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		11/02/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	11/02/18	TLB
Lead	2.28		mg/Kg	EPA 6010B	1.0	0.500	11/02/18	TLB
Sample: 002 HB7-2.5							Date & Time Sampled: 10/24/18 @ 12:00	
Sample Matrix: Soil								
[Metals]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		11/02/18	TLB
Cadmium	<0.500		mg/Kg	EPA 6010B	1.0	0.500	11/02/18	TLB
Lead	3.61		mg/Kg	EPA 6010B	1.0	0.500	11/02/18	TLB

Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician

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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING
 ORANGE, CA 92868

1811-00007

Date Reported 11/05/2018
 Date Received 10/24/2018
 Date Sampled 10/24/2018
 Invoice No. 83902
 Customer # G073
 Customer P.O.

Project: Addt'l - WELDING & JUNK YARD

Method # EPA 6010B

QC Reference # 77244 Date Analyzed: 11/2/2018 Technician: TLB

Samples 001 002

Results

	LCS %REC	LCS %DUP	LCS %RPD
Cadmium	99	99	0.4
Lead	98	98	0.0

Control Ranges

LCS %REC	LCS %RPD
75 - 125	0 - 20
75 - 125	0 - 20

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng

Ken Zheng - President

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CHAIN OF CUSTODY

A & R Work Order #:

1811-7

Page 1 of 1

RUSH

Client Name HILLMAN CONSULTING				<input checked="" type="checkbox"/> Chilled				Analyses Requested EPA8260B (VOCs & Oxygenates) _____ EPA8260B(BTEX & Oxygenates) _____ LUFT / 8015 (Gasoline) _____ LUFT / 8015 (Diesel) _____ EPA8081A (Organochlorine Pesticides) _____ EPA 8082 (PCBs) <input checked="" type="checkbox"/> _____ EPA 8015M (Carbon Chain C4-C40) _____ EPA 6010B/7000 (CAM 17 Metals) _____ Micro: Plate Cnt., Coliform, E-Coli _____ Pb: Cd _____								Turn Around Time Requested 72 HR	
E-mail DAN@GSAENGINEERING.NET				<input checked="" type="checkbox"/> Intact												8 12 24 48 Hours	
Address 1745 ORANGEWOOD AVE #110 ORANGE				<input type="checkbox"/> Seal													
Report Attention DAN L		Phone # 714 206 3916		Sampled By D.L		Fax: # _____											
Project No./ Name WELDING & JUNK YARD		Project Site 22245 S. ESCONDIDO BLVD ESCONDIDO															
Lab # (Lab use)		Client Sample ID		Sample Collection Date / Time		Matrix Type										Sample Preserve	
		HB1-0.5		10-24-18 9:30		SOIL EUE				1		* Run					
		HB1-2.5		9:40						1		Pb: on					
		HB2-0.5		10:00						1		higher					
		HB2-2.5		10:15						1		p.TPHo					
		HB3-0.5		10:20						1		* Sample is consistent per Dan Hillman ** Push NO# 1810-217 (addl) 10/24/18 - Res Orange on 72 hr TAT 10/24/18					
1		HB3-2.5		10:30						1							
		HB4-0.25		10:50						1							
		HB4-2.5		11:00						1							
		HB5-0.25		11:10						1							
		HB5-2.5		11:20						1							
		HB6-0.5		9:00						1							
		HB6-2.5		9:15						1							
		HB7-0.25		11:45						1							
2		HB7-2.5		12:00						1							
		HB8-0.25		12:30						1							
Relinquished by Hillman Consulting		Company Hillman Consulting		Date 10/24/18		Time 12:45		Received By [Signature]		Company [Signature]		Date 10/24/18		Time 17:15		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.	
Relinquished by [Signature]		Company Hillman Consulting		Date 10/24/18		Time 17:15		Received By [Signature]		Company [Signature]		Date 10/24/18		Time 17:15			

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water	SL=Sludge SS=Soil/Sediment AR=Air	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST=Steel Tube	B= Brass Tube P= Plastic Bottle V= VOA Vial	E= EnCore
--------------	--	---	-------------------	-----------------------------	-----------------------------------	---	---	-----------



Sample Acceptance Checklist

CLIENT: Hillman Consulting

WORK ORDER NUMBER: 1811-7

Temperature: (Criteria: 0.0°C-6.0°C)
 Sample Temp. (w/CF) °C(w/CF) 4.3°

Sample(s) outside temperature criteria: PM contacted by : _____

Sample(s) outside temperature criteria, but received on ice/chilled on same day of sampling.

Sample(s) received at ambient temperature; placed on ice for transport by courier.
 Ambient Temperature Air Filter

CUSTODY SEAL:

Cooler Present and Intact Present and Not Intact Not Present
 Sample(s) Present and Intact Present and Not Intact Not Present

Sample Condition:	Yes	No	N/A
Was a COC received	<input checked="" type="checkbox"/>		
Were sample IDs present?	<input checked="" type="checkbox"/>		
Were sampling dates & times present?	<input checked="" type="checkbox"/>		
Was a relinquished signature present?	<input checked="" type="checkbox"/>		
Were the tests required clearly indicated?	<input checked="" type="checkbox"/>		
Were all samples sealed in plastic bags?			<input checked="" type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>		
Was a sufficient amount of samples sent for tests indicated?	<input checked="" type="checkbox"/>		
Was there headspace in VOA vials?			<input checked="" type="checkbox"/>
Were the containers labeled with correct preservatives?	<input checked="" type="checkbox"/>		

Explanations/Comments:

Notification:

For discrepancies, how was the Project Manager notified? Verbal

Verbal: PM Initials: _____ Data/Time: _____

Email: Send to: _____ Data/Time: _____

Project Manager's response:

Completed By: Date: 10/24/18



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CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President
10/26/2018 11:16:17

Laboratory Job No. (Certificate of Analysis No.)

1810-00211

Project Name / No.

FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Dates Sampled (from/to)

10/24/18 To 10/24/18

Dates Received (from/to)

10/24/18 To 10/24/18

Dates Reported (from/to)

10/26/18 To 10/26/2018

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
HSG-1-3	Tetrachloroethene	0.81		µg/L	0.10	HSG-1-3	Toluene	0.14		µg/L	0.10
HSG-2-3	Tetrachloroethene	0.80		µg/L	0.10	HSG-2-3	Toluene	0.10		µg/L	0.10
HSG-3-4	Tetrachloroethene	0.84		µg/L	0.10	HSG-3-4	Toluene	0.13		µg/L	0.10
HSG-4-4	Toluene	0.11		µg/L	0.10						



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CERTIFICATE OF ANALYSIS

1810-00211

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Date Reported 10/26/18
Date Received 10/24/18
Invoice No. 83830
Cust # G073
Permit Number
Customer P.O.

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HSG-1-3							Date & Time Sampled: 10/24/18 @ 15:10	
Sample Matrix: Soil Vapor								
[VOCs by GCMS]								
Acetone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
t-Amyl Methyl Ether (TAME)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Benzene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Bromobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromodichloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromoform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
t-Butanol (TBA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
2-Butanone (MEK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
n-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
sec-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
tert-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Carbon Disulfide	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Carbon Tetrachloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Chlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromoethane (EDB)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromo-3-Chloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,4-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dichlorodifluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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CERTIFICATE OF ANALYSIS

1810-00211

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Date Reported 10/26/18
Date Received 10/24/18
Invoice No. 83830
Cust # G073
Permit Number
Customer P.O.

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HSG-1-3							Date & Time Sampled: 10/24/18 @ 15:10	
Sample Matrix: Soil Vapor								
.....continued								
1,1-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Diisopropyl Ether (DiPE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethyl-t-Butyl Ether (EtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Hexachlorobutadiene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Hexanone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Isopropylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Isopropyltoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Methylene Chloride	<0.1		µg/L	EPA 8260B	1.0	0.1	10/24/18	AL
4-Methyl-2-Pentanone (MIBK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Methyl-t-butyl Ether (MtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Naphthalene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
n-Propylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Styrene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1,2,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Tetrachloroethene	0.81		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Toluene	0.14		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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Invoice No. 83830
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Customer P.O.

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 HSG-1-3							Date & Time Sampled: 10/24/18 @ 15:10	
Sample Matrix: Soil Vapor								
.....continued								
1,2,3-Trichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorofluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3,5-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Vinyl Chloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
m,p-Xylenes	<0.20		µg/L	EPA 8260B	1.0	0.20	10/24/18	AL
o-Xylene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
[VOC Vapor Sampling Tracer]								
Isopropanol (IPA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
[VOC Surrogates]								
Dibromofluoromethane	106		%REC	EPA 8260B		70-130	10/24/18	AL
Toluene-D8	97		%REC	EPA 8260B		70-130	10/24/18	AL
Bromofluorobenzene	96		%REC	EPA 8260B		70-130	10/24/18	AL
Sample: 002 HSG-2-3							Date & Time Sampled: 10/24/18 @ 15:00	
Sample Matrix: Soil Vapor								
[VOCs by GCMS]								
Acetone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
t-Amyl Methyl Ether (TAME)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Benzene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Bromobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromodichloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromoform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
t-Butanol (TBA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
2-Butanone (MEK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
n-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
sec-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
tert-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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HILLMANN CONSULTING
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1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Date Reported 10/26/18
Date Received 10/24/18
Invoice No. 83830
Cust # G073
Permit Number
Customer P.O.

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 HSG-2-3							Date & Time Sampled: 10/24/18 @ 15:00	
Sample Matrix: Soil Vapor								
.....continued								
Carbon Disulfide	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Carbon Tetrachloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Chlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromoethane (EDB)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromo-3-Chloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,4-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dichlorodifluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Diisopropyl Ether (DiPE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethyl-t-Butyl Ether (EtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Hexachlorobutadiene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 HSG-2-3							Date & Time Sampled: 10/24/18 @ 15:00	
Sample Matrix: Soil Vapor								
.....continued								
2-Hexanone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Isopropylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Isopropyltoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Methylene Chloride	<0.1		µg/L	EPA 8260B	1.0	0.1	10/24/18	AL
4-Methyl-2-Pentanone (MIBK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Methyl-t-butyl Ether (MtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Naphthalene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
n-Propylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Styrene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Tetrachloroethane	0.80		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Toluene	0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorofluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3,5-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Vinyl Chloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
m,p-Xylenes	<0.20		µg/L	EPA 8260B	1.0	0.20	10/24/18	AL
o-Xylene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
[VOC Vapor Sampling Tracer]								
Isopropanol (IPA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
[VOC Surrogates]								
Dibromofluoromethane	104		%REC	EPA 8260B		70-130	10/24/18	AL
Toluene-D8	99		%REC	EPA 8260B		70-130	10/24/18	AL

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Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 002 HSG-2-3 Sample Matrix: Soil Vaporcontinued							Date & Time Sampled: 10/24/18 @ 15:00	
Bromofluorobenzene	94		%REC	EPA 8260B		70-130	10/24/18	AL
Sample: 003 HSG-3-4 Sample Matrix: Soil Vapor							Date & Time Sampled: 10/24/18 @ 14:50	
[VOCs by GCMS]								
Acetone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
t-Amyl Methyl Ether (TAME)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Benzene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Bromobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromodichloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromoform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
t-Butanol (TBA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
2-Butanone (MEK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
n-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
sec-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
tert-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Carbon Disulfide	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Carbon Tetrachloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Chlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromoethane (EDB)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromo-3-Chloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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CERTIFICATE OF ANALYSIS

1810-00211

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Date Reported 10/26/18
Date Received 10/24/18
Invoice No. 83830
Cust # G073
Permit Number
Customer P.O.

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 HSG-3-4							Date & Time Sampled: 10/24/18 @ 14:50	
Sample Matrix: Soil Vapor								
.....continued								
1,3-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,4-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dichlorodifluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Diisopropyl Ether (DiPE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethyl-t-Butyl Ether (EtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Hexachlorobutadiene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Hexanone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Isopropylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Isopropyltoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Methylene Chloride	<0.1		µg/L	EPA 8260B	1.0	0.1	10/24/18	AL
4-Methyl-2-Pentanone (MIBK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Methyl-t-butyl Ether (MtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Naphthalene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
n-Propylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Styrene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Tetrachloroethene	0.84		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Toluene	0.13		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 003 HSG-3-4							Date & Time Sampled: 10/24/18 @ 14:50	
Sample Matrix: Soil Vapor								
.....continued								
1,2,3-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorofluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3,5-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Vinyl Chloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
m,p-Xylenes	<0.20		µg/L	EPA 8260B	1.0	0.20	10/24/18	AL
o-Xylene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
[VOC Vapor Sampling Tracer]								
Isopropanol (IPA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
[VOC Surrogates]								
Dibromofluoromethane	106		%REC	EPA 8260B		70-130	10/24/18	AL
Toluene-D8	97		%REC	EPA 8260B		70-130	10/24/18	AL
Bromofluorobenzene	99		%REC	EPA 8260B		70-130	10/24/18	AL

Sample: 004 HSG-4-4							Date & Time Sampled: 10/24/18 @ 14:40	
Sample Matrix: Soil Vapor								
[VOCs by GCMS]								
Acetone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
t-Amyl Methyl Ether (TAME)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Benzene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Bromobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromodichloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromoform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 HSG-4-4							Date & Time Sampled: 10/24/18 @ 14:40	
Sample Matrix: Soil Vapor								
.....continued								
t-Butanol (TBA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
2-Butanone (MEK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
n-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
sec-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
tert-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Carbon Disulfide	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Carbon Tetrachloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Chlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromoethane (EDB)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromo-3-Chloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,4-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dichlorodifluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 HSG-4-4							Date & Time Sampled: 10/24/18 @ 14:40	
Sample Matrix: Soil Vapor								
.....continued								
trans-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Diisopropyl Ether (DiPE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethyl-t-Butyl Ether (EtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Hexachlorobutadiene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Hexanone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Isopropylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Isopropyltoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Methylene Chloride	<0.1		µg/L	EPA 8260B	1.0	0.1	10/24/18	AL
4-Methyl-2-Pentanone (MIBK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Methyl-t-butyl Ether (MtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Naphthalene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
n-Propylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Styrene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Tetrachloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Toluene	0.11		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorofluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3,5-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Vinyl Chloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
m,p-Xylenes	<0.20		µg/L	EPA 8260B	1.0	0.20	10/24/18	AL
o-Xylene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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Date Reported 10/26/18
Date Received 10/24/18
Invoice No. 83830
Cust # G073
Permit Number
Customer P.O.

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 004 HSG-4-4							Date & Time Sampled: 10/24/18 @ 14:40	
Sample Matrix: Soil Vapor								
.....continued								
[VOC Vapor Sampling Tracer]								
Isopropanol (IPA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
[VOC Surrogates]								
Dibromofluoromethane	108		%REC	EPA 8260B		70-130	10/24/18	AL
Toluene-D8	97		%REC	EPA 8260B		70-130	10/24/18	AL
Bromofluorobenzene	93		%REC	EPA 8260B		70-130	10/24/18	AL
Sample: 005 HSG-5-4							Date & Time Sampled: 10/24/18 @ 14:30	
Sample Matrix: Soil Vapor								
[VOCs by GCMS]								
Acetone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
t-Amyl Methyl Ether (TAME)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Benzene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Bromobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromodichloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromoform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Bromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
t-Butanol (TBA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
2-Butanone (MEK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
n-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
sec-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
tert-Butylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Carbon Disulfide	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Carbon Tetrachloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
Chlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloroform	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Chloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Chlorotoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory.

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CERTIFICATE OF ANALYSIS

1810-00211

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Date Reported 10/26/18
Date Received 10/24/18
Invoice No. 83830
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Customer P.O.

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 HSG-5-4							Date & Time Sampled: 10/24/18 @ 14:30	
Sample Matrix: Soil Vapor								
.....continued								
Dibromochloromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromoethane (EDB)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dibromo-3-Chloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dibromomethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,4-Dichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Dichlorodifluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,2-Dichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2,2-Dichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
cis-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
trans-1,3-Dichloropropene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Diisopropyl Ether (DiPE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Ethyl-t-Butyl Ether (EtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Hexachlorobutadiene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
2-Hexanone	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Isopropylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
4-Isopropyltoluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Methylene Chloride	<0.1		µg/L	EPA 8260B	1.0	0.1	10/24/18	AL
4-Methyl-2-Pentanone (MIBK)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
Methyl-t-butyl Ether (MtBE)	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Naphthalene	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
n-Propylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL

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CERTIFICATE OF ANALYSIS

1810-00211

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Invoice No. 83830

Cust # G073

Permit Number

Customer P.O.

HILLMANN CONSULTING
DAN LOUKS
1745 W. ORANGEWOOD AVE.
ORANGE, CA 92868

Project: FORMER WELDING & JUNK YARD / ESCONDIDO, CA

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 005 HSG-5-4					Date & Time Sampled:		10/24/18 @ 14:30	
Sample Matrix: Soil Vapor								
.....continued								
Styrene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2,2-Tetrachloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Tetrachloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Toluene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trichlorobenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,1-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,1,2-Trichloroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichloroethene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,3-Trichloropropane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorofluoromethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Trichlorotrifluoroethane	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,2,4-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
1,3,5-Trimethylbenzene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
Vinyl Chloride	<0.050		µg/L	EPA 8260B	1.0	0.050	10/24/18	AL
m,p-Xylenes	<0.20		µg/L	EPA 8260B	1.0	0.20	10/24/18	AL
o-Xylene	<0.10		µg/L	EPA 8260B	1.0	0.10	10/24/18	AL
[VOC Vapor Sampling Tracer]								
Isopropanol (IPA)	<1.0		µg/L	EPA 8260B	1.0	1.0	10/24/18	AL
[VOC Surrogates]								
Dibromofluoromethane	101		%REC	EPA 8260B		70-130	10/24/18	AL
Toluene-D8	94		%REC	EPA 8260B		70-130	10/24/18	AL
Bromofluorobenzene	91		%REC	EPA 8260B		70-130	10/24/18	AL

Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director



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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
 B1 = BOD dilution water is over specifications . The reported result may be biased high.
 D = Surrogate recoveries are not calculated due to sample dilution.
 E = Estimated value; Value exceeds calibration level of instrument.
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference.
 J = Analyte concentration detected between RL and MDL.
 Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
 S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
 RL = Reporting Limit, Adjusted by DF
 MDL = Method Detection Limit, Adjusted by DF
 Qual = Qualifier
 Tech = Technician

As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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QUALITY CONTROL DATA REPORT

HILLMANN CONSULTING
 PACIFIC PALISADES, CA 90272

1810-00211

Date Reported 10/26/2018
 Date Received 10/24/2018
 Date Sampled 10/24/2018
 Invoice No. 83830
 Customer # G073
 Customer P.O.

Project: FORMER WELDING & JUNK YARD /
 ESCONDIDO, CA

Method # EPA 8260B

QC Reference # 77104 Date Analyzed: 10/24/2018 Technician: AL

Samples 001 002 003 004 005

Results

	LCS %REC	BLKSRR%R EC
1,1-Dichloroethene	107	
Benzene	95	
Bromofluorobenzene		97
Chlorobenzene	97	
Dibromofluoromethan		99
Toluene	122	
Toluene-D8		97
Trichloroethene	86	

Control Ranges

LCS %REC	BLKSRR%REC
70 - 130	
70 - 130	
	50 - 150
70 - 130	
	50 - 150
70 - 130	
	50 - 150
70 - 130	

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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CHAIN OF CUSTODY

A & R Work Order #:

1810-211

RUSH

Analyses Requested

Client Name **HILLMAN CONSULTING** Chilled Intact Seal

E-mail **DAN@GSAENGINEERING.NET**

Address **1745 ORANGEWOOD AVE #110 ORANGE**

Report Attention **DAN L** Phone # **714 206-3916** Sampled By **D-L**

Project No./ Name **Palmer Walnut + JMK YARD** Project Site **2224 S. ESCONCIDO Blvd ESCONCIDO**

Turn Around Time Requested Rush 8 12-24 48 Hours Normal

Lab # (Lab use)	Client Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt., Coliform, E-Coli	Remarks
		Date	Time													
1	HSG-1-3	10-24-18	15:10	VAPOR	N/A	1-T	X									OIL STAIN
2	HSG-2-3		15:00			1-T	X									HEAVY EQUIPMENT
3	HSG-3-4		14:50			1-T	X									BACK PORCH
4	HSG-4-4		14:40			1-T	X									metal fabricator
5	HSG-5-4		14:30			1-T	X									work bench

Relinquished By Company **Hillman** Date **10/24/18** Time **17:05**

Received By Company **ARL** Date **10/24/18** Time **17:05**

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water SL=Sludge IC=Ice SH=NaOH
 GW=Ground Water SS=Soil/Sediment HC=HCl ST=Na2S2O3
 WW=Waste Water AR=Air HN=HNO3 HS=H2SO4
 SD=Solid Waste PP=Pure Product

Preservative Code

* Sample Container Types:
 T=Tedlar Air Bag B= Brass Tube E= EnCore
 G=Glass Container P=Plastic Bottle
 ST= Steel Tube V=VOA Vial

APPENDIX C

Drilling Logs

APPENDIX D
Soil Gas Monitoring Data

SOIL GAS MONITORING DATA FORM

PROJECT: Commercial Property
LOCATION: 2222-2224 South Escondido Blvd., Escondido, California
DATE: October 24, 2018

	VAPOR PROBE INFO							
PROBE ID	HSG1	HSG2	HSG3	HSG4	HSG5			
PROBE DEPTH (ft)	3	3	4	4	4			
	EXTRACTION DATA							
Applied Vacuum (in. WC)	<5	<5	<5	<5	<5			
FLOW (L/min)	0.2	0.2	0.2	0.2	0.2			
Pore Volumes (borehole - sand pack)	3	3	3	3	3			
	MONITORING DATA							
OXYGEN (%)	19.0	18.3	18.7	20.0	19.5			
CARBON DIOXIDE (%)	0.9	1.45	1.32	1.40	0.34			
VOC by PID (ppm)	0.0	0.0	0.0	0.0	0.0			

	VAPOR PROBE INFO							
PROBE ID								
PROBE DEPTH (ft)								
	EXTRACTION DATA							
Applied Vacuum (in. WC)								
FLOW (L/min)								
Pore Volumes (borehole - sand pack)								
	MONITORING DATA							
OXYGEN (%)								
CARBON DIOXIDE (%)								
VOC by PID (ppm)								

REMARKS: _____

SAMPLED BY: DL