



# REVISED ADDITIONAL SITE ASSESSMENT REPORT

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2755 41<sup>ST</sup> AVENUE  
SOQUEL, CALIFORNIA

EIS, Inc. PROJECT #2344-2

December 5, 2023

PREPARED FOR:

~~Mr. Don Groppett~~ 

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## 1.0 INTRODUCTION

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Environmental Investigation Services, Inc. (EIS) appreciates the opportunity to work on the project located at 2755 41<sup>st</sup> Street, Soquel, California (the Site). On July 8, 2022 Cornerstone Earth Group (Cornerstone) completed a *Phase I Environmental Site Assessment (ESA) and Limited Subsurface Investigation* for the Site (Section 2.1). The results of that investigation, in part, identified limited subsurface soil impacts with organochlorine pesticides (OCP) and volatile organic compound (VOC) impacts to soil vapor. Based upon these results, EIS completed this investigation to both confirm the findings of the Cornerstone investigation and further delineate the extent of impacts. This report details the field procedures, laboratory methods, and findings of the investigation, which included the collection of soil and soil vapor samples from strategic locations across the Site. A previous version of this report was issued dated November 4, 2022 which compared soil and soil vapor data to screening levels for commercial/industrial settings; the current report applies residential screening levels in accordance with the updated redevelopment plans. A site location map is presented as Figure 1. Sample locations are depicted on Figures 2, 3 and 4.

## 2.0 BACKGROUND AND SITE SETTING

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The approximately 2.58-acre subject site consists of undeveloped land. The adjoining properties primarily consist of commercial buildings.

Based on the information obtained by Cornerstone as part of their Phase I ESA, by the 1930s the Site appears to have been developed with several small structures that appear to have been residences and associated outbuildings. Portions of the Site may also have been used for agricultural purposes. Additional residential structures were constructed on-Site by the 1950s.

By 1940, a commercial building was constructed on the northeast corner of the Site (2851 41st Avenue) that was occupied by Johnny's Food Market (1960), Coast Lighting & Hardware (1974- 1980) and King's Paint & Paper (1985-2018). Spencer's Audio Video Service Co. (1985) and Plumbed Elegance (1992-2005) also were identified as concurrent occupants. This building was demolished in approximately 2019.

A commercial structure also was present on the northwest corner of the Site (3820 Soquel Drive) by the 1950s that was occupied by Garbini's Inn/Restaurant (1960-1973) and Art & Walt's Original Garbini Inn (1974-1980). This building was removed by the early 1980s and the parcel subsequently was used as an exterior storage yard; Affordable Hauling and Round Up Recycling were identified as occupants.

An on-Site building at 3912 Soquel Drive previously was occupied by Ted's Motorcycle Shop (1960), a self-service laundromat (1961-1964), Royal Service & Sales (an apparent small appliance sales/service business) (1971-1980), Santa Cruz Building (1985) and Computer Jones (1995). A self-service car wash was constructed at this location in 1995; it was demolished in approximately 2019.

A former residence at 2755 41st Avenue also was noted to have been occupied by a few commercial businesses including a palm reader (1980), Royal Service & Sales (1985), Cellular Service Center (1992) and Shaffer Communications (1995).

Paint-related products previously were stored on-Site at King's Paint & Paper, a retail paint store. Ted's Motorcycle Shop, an occupant of 3912 Soquel Drive in 1960, may also have used and stored hazardous materials. No spills have been reported at the Site (Cornerstone, 2022).

## **2.1 PREVIOUS ENVIRONMENTAL REPORTS**

### **2.1.1 PHASE I ESA AND LIMITED SUBSURFACE INVESTIGATION – JULY 2022**

According to a Phase 1 Environmental Site Assessment (ESA) conducted by Cornerstone Earth Group (Cornerstone), the subject property was first developed in the 1930's with what appear to be residential structures during which time portions of the site may have been used for agricultural purposes. Other historical uses consist of mainly commercial buildings with a wide range of uses. Cornerstone collected thirteen soil samples to evaluate potential impacts from prior agricultural use and/or former structures. Chlordane was detected above the residential environmental screening levels (ESLs). In addition, Cornerstone collected soil vapor samples at various depths to assess vapor intrusion concerns. Several VOCs were detected above residential ESLs including benzene and trichloroethene (TCE). Cornerstone classified the presence of organochlorine pesticides (OCPs) in soil samples and VOCs in soil vapor samples as Recognized Environmental Concerns (RECs) (Cornerstone, 2022). A site map showing these historical sample locations and tabulated data tables are presented in Appendix A.

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## **3.0 GENERAL SCOPE OF WORK OUTLINE**

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EIS completed the following tasks to meet general investigation requirements:

- Notified USA North of the proposed boring locations to clear potential conflicts with underground utilities.
- Contracted with a licensed C-57 drilling contractor to advance soil borings using truck-mounted Geoprobe equipment.

- Advanced five temporary soil borings (SB-1 through SB-5) in the approximate locations depicted in Figures 2 and 3. Each sample was advanced to a total of 1.5-feet below ground surface (BGS) with two samples collected from each boring, one from 0-.5-feet bgs and one from 1-1.5-feet bgs. A total of ten soil samples were retained for laboratory analysis. The samples were analyzed for organochlorine pesticides (OCPs).
- Advanced three temporary soil borings each surrounding areas where Cornerstone identified soil vapor that exceeded the applicable ESLs (SV-1, SV-2, and SV-4 through SV-6). These fifteen soil borings were completed as temporary soil vapor wells for the collection of soil vapor samples at 5-feet bgs.
- Collected soil vapor samples from all fifteen soil vapor wells. The sampling points are as follows:
  - SV-1A, SV-1B, SV-1C
  - SV-2A, SV-2B, SV-2C
  - SV-4A, SV-4B, SV-4C
  - SV-5A, SV-5B, SV-5C
  - SV-6A, SV-6B, SV-6C

All soil vapor samples were transferred to an analytical laboratory for analysis of gasoline-range total petroleum hydrocarbons (TPH-GRO) and VOCs.

- Prepared this professional technical report to present the sampling activities, analytical results, and findings of the investigation.

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## **4.0 DETAILS OF FIELD INVESTIGATION**

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### **4.1 PRE-FIELD ACTIVITIES**

Prior to all drilling work, the Site was delineated with white marking paint and Underground Service Alert was contacted at least two working days (48 hours) prior to boring advancement, as required by law, for utility line location and marking. Additionally, EIS contracted with a private utility locator to identify underground utilities in the areas of the proposed soil borings.

### **4.2 BORING INSTALLATION AND SAMPLING**

EIS advanced a total of twenty soil borings for the investigation using truck mounted Geoprobe™ equipment. EIS contracted with Environmental Control Associates (ECA), a California-licensed C-57 drilling contractor (Lic. No. 655970), to advance the borings. The drilling equipment was cleaned prior to drilling and prior to leaving the Site. The borings were advanced by hydraulically pushing the Geoprobe sampling device to the desired

sampling depths. The boring locations are shown on Figure 2. Soil encountered in boreholes SB-1 through SB-5 was logged using Unified Soil Classification System (USCS) guidelines for texture, relative moisture content, odor, and other observable characteristics (Appendix B).

Soil borings SB-1 through SB-5 were advanced to approximately 1.5-feet bgs with two soil samples retained from each boring. The soil samples were collected from the borings in clean acetate sample liners with minimum headspace, sealed with Teflon sheets and plastic end-caps at both ends, labeled, logged onto chain-of-custody forms, and transported in a chilled ice chest on crushed ice to the laboratory.

### **4.3 SOIL VAPOR SAMPLE COLLECTION**

Soil gas sampling was generally conducted following the guidelines provided in the Department of Toxic Substances Control's (DTSC's) "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" (DTSC, 2011) and "Advisory – Active Soil Gas Investigations" (DTSC et al, 2015).

EIS installed a total of fifteen temporary, single-depth soil vapor wells (SV-1A through 1C, SV-2A through 2C, SV-4A through 4C, SV-5A through 5C, and SV-6A through 6C) in the approximate locations depicted on Figure 2. All vapor wells were installed to 5-foot bgs within a single 2-inch diameter boring. Each probe consisted of one preassembled soil vapor sampling tip connected to a length of polypropylene (Nylaflo<sup>®</sup>) or Teflon tubing that extends approximately 2 to 3 feet above the surface to facilitate sample collection. The probes were installed using a down-hole rod to support the well tubing and probe in the borehole and ensure that the probe tip was placed at the proper depth. This down-hole rod was removed during the placement of annulus materials.

A 12-inch sand pack of #3 sand was placed surrounding the 5-foot bgs probe tip midway in the sand pack to minimize the disruption of airflow to the sampling tip. 12 inches of dry granular bentonite was placed above the sand pack, followed by hydrated bentonite that extended to the surface. The bentonite was hydrated in a container at the surface and poured slowly into the borehole. The dry bentonite layer prevents the hydrated bentonite layer from infiltrating the sand pack.

Each soil vapor sample was collected using a SUMA<sup>®</sup> canister supplied by the contracted laboratory following a minimum equilibration period of 2-hours. Prior to the collection of a sample, the soil gas sampling point was purged of approximately three purge volumes of air (soil vapor) from the probe and tubing associated with the point using a 60-milliliter syringe attached to the Teflon tubing of the soil vapor well. Once the well had been purged, a sample collection SUMA<sup>®</sup> canister was attached to the Teflon tubing of the sampling point, the initial negative pressure of the canister was measured (and recorded), and soil vapor was delivered to the canister from the well until a negative pressure of about five-inches of Hg was noted on the vacuum gauge on the sample collection SUMA<sup>®</sup>

canister. All vacuum readings were documented on the chain of custody record and field sampling logs. Soil vapor samples were kept at ambient temperatures and transported to the laboratory under chain of custody record. Leak testing was performed during sample collection using isopropyl alcohol (IPA) as a leak-check compound. This was accomplished by applying IPA with a clean towel to all aboveground fittings in the sampling train and placing an IPA-saturated towel adjacent to the borehole and beneath the sampling shroud. Soil vapor field sampling logs are provided as Appendix C.

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## **5.0 LABORATORY ANALYSES**

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EIS used Pace Analytical, Inc. located in Bakersfield, California as the selected analytical laboratory for the soil samples and Enthalpy Analytical, located in Orange, California as the selected analytical laboratory for the soil vapor samples. A total of five soil samples were transferred to Pace Analytical and analyzed for OCPs by USEPA method 8081A. A total of fifteen soil vapor samples were transferred Enthalpy and analyzed for TPH-GRO and VOCs by USEPA Method TO-15.

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## **6.0 FINDINGS**

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### **6.1 GEOLOGIC AND HYDROLOGIC CONDITIONS**

Soils and sediments encountered in the borings generally consisted of Silt (MH) to Silty Clay (CL) ranging from black to dark greyish brown to a total explored depth of 1.5-feet bgs in SB-1 through SB-5. Soils and sediments encountered in SV-4A consisted of silty clay ranging from black near the surface to dark yellowish brown to approximately 2-ft bgs. According to the Phase 1 ESA performed by Cornerstone, groundwater is likely present at 80-feet bgs and the groundwater flow direction is variable ranging from southeast, northeast, and east. Groundwater was not encountered in any of the borings advanced during the completion of this investigation. Detailed descriptions of the encountered subsurface materials are depicted on the boring logs (Appendix B).

### **6.2 SOIL ANALYTICAL RESULTS**

A total of five soil samples were collected during this investigation. Soil analytical results are included in Appendix D, summarized in Table 1, and depicted on Figure 3.

Analytical results were compared to Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential use (RWQCB, 2019 Rev. 2). By definition, any detected concentration below its applicable ESL can be assumed to not pose a significant threat to human health, water resources, or the environment. Similarly, the presence of a chemical at concentrations in excess of an ESL does not necessarily indicate adverse effects on human health or the environment, rather that additional

evaluation is warranted (RWQCB, 2019). OCPs were not detected in the soil samples above laboratory method detection limits (MDLs), except as follows:

- Chlordane was detected in seven of the ten soil samples at concentrations ranging from 0.065 to 2.9 milligrams per kilogram (mg/kg). The 2.9 mg/kg detection in sample SB-1-0.5 exceeds the applied residential ESL of 0.48 mg/kg.
- Dieldrin was detected in eight of the ten soil samples at concentrations ranging from 0.00065 to 0.060 mg/kg. The 0.060 mg/kg detection in sample SB-1-0.5 exceeds the applicable residential ESL of 0.037 mg/kg.
- 4,4'-Dichlorodiphenyldichloroethane (DDD) was detected in eight of the ten soil samples at concentrations ranging from 0.00043 to 0.052 mg/kg, all of which are below the applicable ESL of 2.7 mg/kg.
- 4,4'-Dichlorodiphenyldichloroethylene (DDE) was detected in seven of the ten soil samples at concentrations ranging from 0.00040 to 0.0072 mg/kg, all of which are below the applicable ESL of 1.8 mg/kg.
- 4,4'- Dichlorodiphenyltrichloroethane (DDT) was detected in five of the ten soil samples at concentrations ranging from 0.00035 to 0.0069 mg/kg, all of which are below the applicable ESL of 1.9 mg/kg.
- Heptachlor epoxide was detected in four of the ten soil samples at concentrations ranging from 0.0013 to 0.021 mg/kg, all of which are below the applicable ESL of 0.062 mg/kg.

### 6.3 SOIL VAPOR ANALYTICAL RESULTS

Soil vapor analytical results are provided in Appendix E and summarized in Table 2 and Figure 4. Soil vapor results were compared to RWQCB ESLs for residential land use (RWQCB, 2019 Rev. 2). Analyzed parameters TPH-GRO and VOCs were not detected in the soil vapor samples above laboratory MDLs, except as follows:

- **Benzene** was detected in thirteen of the fifteen soil vapor samples at concentrations ranging from 2.0 to 25 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). Benzene was detected in 10 of the 15 soil vapor samples at concentrations that exceed the applicable residential ESL of  $3.2 \mu\text{g}/\text{m}^3$ .
- **Tetrachloroethene (PCE)** was detected in three of the fifteen soil vapor samples at concentrations ranging from 3.6 to  $30 \mu\text{g}/\text{m}^3$ . The detected concentration of  $30 \mu\text{g}/\text{m}^3$  in sample SV-2B exceeds the applicable residential ESL of  $15 \mu\text{g}/\text{m}^3$ .
- **Chloroform** was detected in twelve of the fifteen soil vapor samples at concentrations ranging from 2.3 to  $46 \mu\text{g}/\text{m}^3$ . Chloroform was detected in ten of the 15 soil vapor samples at concentrations that exceed the applicable residential ESL of  $4.1 \mu\text{g}/\text{m}^3$ .



- TPH-GRO was detected in all fifteen soil vapor samples at concentrations ranging from 310 to 3,500 µg/m<sup>3</sup>, all of which are well below the applicable residential ESL of 20,000 µg/m<sup>3</sup>.
- Additional analytes acetone, toluene, ethylbenzene, and total xylenes were detected in various soil vapor samples at concentrations above their MDLs but well below their respective applicable ESLs.
- Additional analytes dichlorodifluoromethane, trichlorotrifluoroethane, carbon disulfide, and n-hexane were also detected in various soil vapor samples; there are no established ESLs for these analytes.

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## 7.0 QUALITY ASSURANCE/QUALITY CONTROL

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The analytical laboratory reports were reviewed by EIS. EIS verified that the holding times for each analytical method were not exceeded and that the laboratory achieved the specific data quality objectives for each selected analytical method. A review of the data validation process indicates that the laboratories completed QA/QC activities required for the samples such as blanks, lab control samples, matrix spikes, and duplicates. The QA/QC parameters for the samples were within acceptable limits and suggest that the data is useful for its intended purpose. In addition, the tracer compound isopropyl alcohol (IPA) was used to monitor the soil vapor probes and sample trains for leaks. IPA was not detected above laboratory MDLs in any of the soil vapor samples collected during this investigation, which verifies the representativeness of the samples.

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## 8.0 CONCLUSIONS

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On October 13, 2022, EIS advanced a total of twenty exploratory borings, five to 1.5-foot bgs and fifteen to 5-foot bgs, in order to collect a total of ten soil samples (from the shallow borings) and a total of fifteen soil vapor samples (from the deeper borings). Based on the results of the current investigation, EIS makes the following conclusions.

- A total of ten soil samples were collected for analysis from the on-site exploratory borings. Chlordane was detected in the 0.5-foot sample from boring SB-1 (sample SB-1-0.5) at a concentration of 2.9 mg/Kg, which exceeds its applicable residential ESL of 0.48 mg/Kg. Dieldrin was also detected in sample SB-1-0.5 at a concentration of 0.060 mg/kg, which exceeds the applicable residential ESL of 0.037 mg/kg. The corresponding 1.5-foot sample from the same boring location (sample SB-1-1.5) was non-detect for both chlordane and dieldrin. During the previous investigation conducted by Cornerstone, various OCPs (including chlordane and dieldrin) were detected in former boring S-6 (see Appendix A),

which was located near these current borings. The current sample results indicate that slight chlordane and dieldrin impacts to surface soils (0.5 feet) exist in this area but the impacts appear limited both laterally and vertically. No other contaminants of concern were detected at concentrations exceeding applicable residential ESLs in any of the soil samples collected as part of this investigation.

- Benzene and chloroform were each detected above their respective ESLs in ten of the fifteen soil vapor samples collected during this investigation. Benzene and chloroform impacts to soil vapor at the Site are somewhat spatially discontinuous but appear generally widespread, with both compounds detected at sample locations across the Site (Figure 4). The source and full extent of these impacts to soil vapor is unknown. This finding represents an environmental concern.
- The chlorinated solvent PCE was detected in three of the fifteen soil vapor samples at concentrations ranging from 3.6 to 30  $\mu\text{g}/\text{m}^3$ . The detected concentration of 30  $\mu\text{g}/\text{m}^3$  in sample SV-2B exceeds the applicable residential ESL of 15  $\mu\text{g}/\text{m}^3$ . PCE impacts to soil vapor appear limited to the northern-central portion of the site. The source and full extent of PCE impacts to soil vapor is unknown. This finding represents an environmental concern.

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## 9.0 RECOMMENDATIONS

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Based upon the findings of this investigation, EIS presents the following recommendations:

- It is EIS's understanding that the site is slated for possible residential redevelopment. If the site is to be redeveloped, the Site Mitigation Plan (SMP) previously prepared for the Site by EIS should be updated to reflect the new development plans and implemented prior to and during redevelopment. The SMP includes general construction worker awareness and soil handling procedures, vapor mitigation plans, and additional procedures to ensure the safety of construction workers and future tenants.
- The results of this investigation, and an updated SMP, should be submitted to the local oversight agency (the Santa Cruz County Environmental Health Department) for further oversight and guidance during the redevelopment process.



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## 10.0 LIMITATIONS

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This report has been prepared specifically for the Site located at 2755 41<sup>st</sup> Ave, Soquel, California. The investigation was completed according to current state and local agency suggested guidance. The interpretations, conclusions, and recommendations made herein are based on the data and analysis for the samples collected on-site. Conditions at the Site can change over time and the use of this report by third parties is entirely at their own risk.

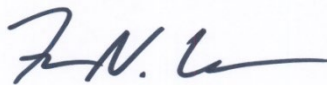
The soil borings can only present information accurately on the area directly at the point of the boring. They give a general indication of the condition of the Site but will not serve as a basis for a guarantee of non-contamination of the site. The conclusions and professional opinions presented are developed in accordance with generally accepted practice as outlined in applied standard guidance documents referenced in this report.

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

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

Please contact EIS at (408) 674-6949 if you have any questions regarding this report.  
Sincerely,

**Environmental Investigation Services, Inc.**



Forrest Cook, PG #8201, exp 9/24  
Professional Geologist

Peter Willits  
Staff Geologist

## References

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

California Department of Toxic Substances Control and California Environmental Protection Agency (DTSC), February, 2020. *Supplemental Guidance: Screening and Evaluating Vapor Intrusion – Draft for Public Comments*.

California Environmental Protection Agency, Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, and San Francisco Regional Water Quality Control Board (DTSC et al), 2015. *Advisory: Active Soil Gas Investigations*. July 2015.

Cornerstone Earth Group, 2022, Phase 1 Environmental Site Assessment and Limited Subsurface Investigation, 2755 41<sup>st</sup> Avenue, Soquel, California. July 8, 2022.

San Francisco Bay Regional Water Quality Control Board (RWQCB), 2019, *Final, User's Guide Derivation and Application of Environmental Screening Levels*. January 2019, Rev. 2.

# FIGURES



**Site Location Map**

2755 41st Avenue, Soquel, California



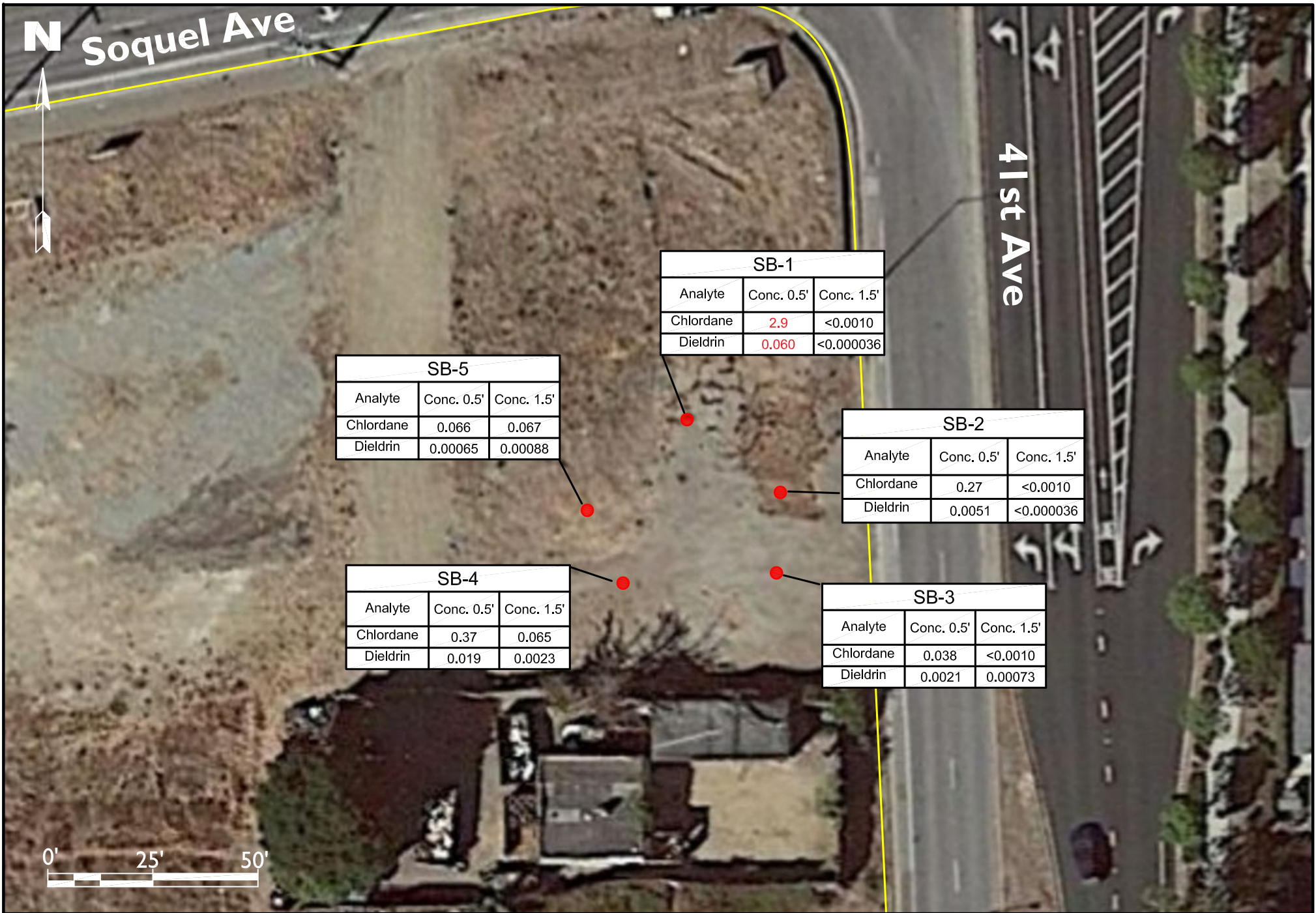
Environmental Investigation Services, Inc.  
 316 Mid Valley Center #313  
 Carmel, California 93923  
 Ph: (408) 656-1032



**Sample Location Map**

2755 41st Avenue, Soquel, California

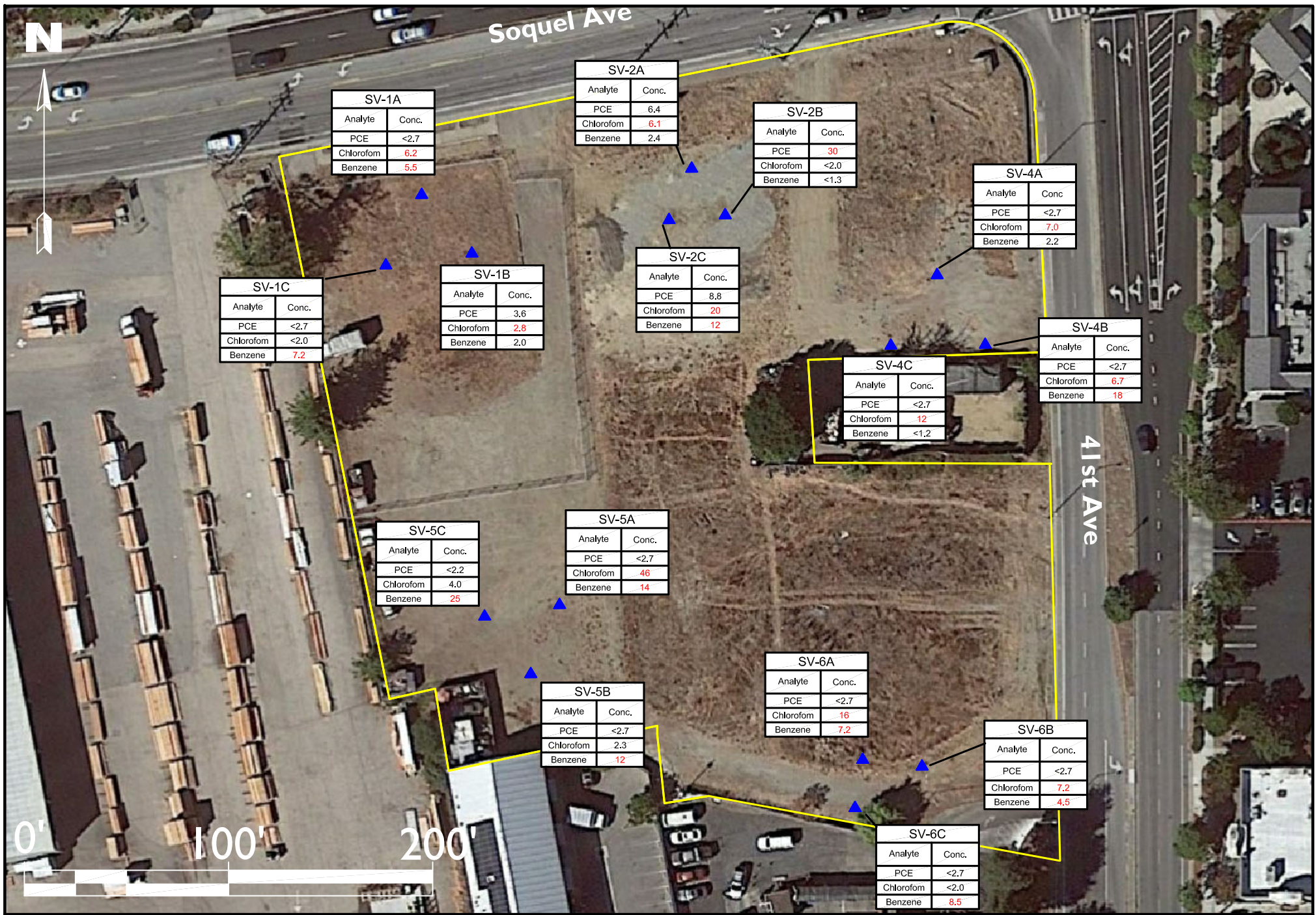
**Figure: 2**  
 EIS Project: 2226-2  
 December 1, 2023



**Soil Concentration Map**

2755 41st Avenue, Soquel, California





**Soil Vapor Concentration Map**

2755 41st Avenue, Soquel, California

# **TABLES**

**TABLE 1**  
Soil Analytical Results Summary  
2755 41st Avenue  
Soquel, California  
Project No. 2226-2

Sample ID	Sample Date	Sample Depth (ft)	OCPs					
			Chlordane	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Heptachlore Epoxide
SB-1-0.5	10/13/2022	0-0.5	<b>2.9</b>	<b>0.052</b>	<b>0.0072</b>	<b>0.0069</b>	<b>0.060</b>	<0.00020
SB-1-1.5	10/13/2022	1.0-1.5	<0.0010	<0.000064	<0.000095	<0.000040	<0.000036	<0.000017
SB-2-0.5	10/13/2022	0-0.5	<b>0.27</b>	<b>0.0043</b>	<b>0.00078</b>	<b>0.00060</b>	<b>0.0051</b>	<0.000017
SB-2-1.5	10/13/2022	1.0-1.5	<0.0010	<0.000064	<0.000095	<0.000040	<0.000036	<0.000017
SB-3-0.5	10/13/2022	0-0.5	<b>0.038</b>	<b>0.00098</b>	<b>0.00053</b>	<0.000040	<b>0.0021</b>	<b>0.0024</b>
SB-3-1.5	10/13/2022	1.0-1.5	<0.0010	<b>0.00043</b>	<0.000095	<0.000040	<b>0.00073</b>	<0.000017
SB-4-0.5	10/13/2022	0-0.5	<b>0.37</b>	<b>0.016</b>	<b>0.0040</b>	<b>0.00310</b>	<b>0.019</b>	<b>0.021</b>
SB-4-1.5	10/13/2022	1.0-1.5	<b>0.065</b>	<b>0.0027</b>	<b>0.00061</b>	<0.000080	<b>0.0023</b>	<b>0.0019</b>
SB-5-0.5	10/13/2022	0-0.5	<b>0.066</b>	<b>0.00073</b>	<b>0.00040 J</b>	<b>0.00055</b>	<b>0.00065</b>	<b>0.0013</b>
SB-5-1.5	10/13/2022	1.0-1.5	<b>0.067</b>	<b>0.00062</b>	<b>0.00053</b>	<b>0.00035 J</b>	<b>0.00088</b>	<0.000017
<b>RWQCB ESLs (residential) Cancer Risk</b>			<b>0.48</b>	<b>2.7</b>	<b>1.8</b>	<b>1.9</b>	<b>0.037</b>	<b>0.062</b>
<b>RWQCB ESLs (residential) Non-Cancer</b>			<b>36</b>	<b>NE</b>	<b>NE</b>	<b>37</b>	<b>3.5</b>	<b>0.91</b>
<b>RWQCB ESLs (com/ind) Cancer Risk</b>			<b>2.2</b>	<b>12</b>	<b>8.3</b>	<b>8.5</b>	<b>0.16</b>	<b>0.28</b>
<b>RWQCB ESLs (com/ind) Non-Cancer</b>			<b>500</b>	<b>NE</b>	<b>NE</b>	<b>520</b>	<b>48</b>	<b>1.30</b>
<b>RWQCB ESLs (Construction) Cancer Risk</b>			<b>140</b>	<b>81</b>	<b>57</b>	<b>57</b>	<b>1.1</b>	<b>1.9</b>
<b>RWQCB ESLs (Construction) Non-Cancer</b>			<b>1,300</b>	<b>NE</b>	<b>NE</b>	<b>140</b>	<b>12</b>	<b>3.2</b>

**Notes:**

OCPs = Organochlorine pesticides  
 DDT = Dichlorodiphenyltrichloroethane  
 DDE = Dichlorodiphenyldichloroethylene  
 DDD = Dichlorodiphenyldichloroethane  
 Sample results reported in milligrams per kilogram (mg/kg).  
 OCPs analyzed by USEPA Method 8081  
 Bolded value denotes analyte detected  
 Shaded value denotes ESL exceedance  
 <1.0 = not detected above analytical laboratory Method Detection Limit (MDL)  
 J = Estimated Value  
 RWQCB ESL = SF Bay Regional Water Quality Control Board Environmental Screening Level (January 2019, Rev 2).

**TABLE 2**  
**Soil Vapor Analytical Results Summary**  
 2755 41st Avenue  
 Soquel, California  
 Project No. 2226-2

Sample ID	Sample Date	Sample Depth (ft)	TPH	VOCs													Leak Check	
			GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	Acetone	Carbon Disulfide	Chloroform	Dichlorodifluoromethane (Freon 12)	n-Hexane	Trichlorotrifluoroethane (Freon 113)	Other Analyzed VOCs	Isopropyl Alcohol	% Breakthrough
SV-1A	10/18/2022	5'	<b>3,500</b>	<b>5.5</b>	<b>2.4</b>	<1.7	<1.7	<2.7	<2.1	<b>7.6</b>	<b>12</b>	<b>6.2</b>	<b>2.2</b>	<b>1.7</b>	<3.1	ND	<4.9	0
SV-1B	10/18/2022	5'	<b>690</b>	<b>2.0</b>	<b>2.9</b>	<1.7	<1.7	<b>3.6</b>	<2.1	<b>7.4</b>	12	<b>2.8</b>	<b>5B</b>	<1.4	<3.1	ND	<4.9	0
SV-1C	10/18/2022	5'	<b>680</b>	<b>7.2</b>	<b>12</b>	<1.7	<b>3.6</b>	<2.7	<2.1	<b>24</b>	<b>9.3</b>	<2.0	<b>2.1</b>	<1.4	<3.1	ND	<4.9	0
SV-2A	10/18/2022	5'	<b>1,000</b>	<b>2.4</b>	<1.4	<1.6	<1.6	<b>4.1</b>	<1.9	<4.3	<b>38</b>	<b>6.1</b>	<b>2.2</b>	<b>1.3</b>	<2.8	ND	<4.4	0
SV-2B	10/18/2022	5'	<b>1,800</b>	<1.3	<1.5	<1.7	<1.7	<b>30</b>	<2.1	<4.8	<1.2	<2.0	<b>4.4</b>	<b>5.5</b>	<3.1	ND	<4.9	0
SV-2C	10/18/2022	5'	<b>3,200</b>	<b>12</b>	<b>4.7</b>	<1.5	<1.5	<b>8.8</b>	<1.8	<4.0	<b>100</b>	<b>20</b>	2.6	<b>3.8</b>	<2.6	ND	<4.2	0
SV-4A	10/18/2022	5'	<b>600</b>	<b>2.2</b>	<1.5	<1.7	<1.7	<2.7	<2.1	<4.8	<b>11</b>	<b>7.0</b>	<b>2.4</b>	<1.4	<b>9.8</b>	ND	<4.9	0
SV-4B	10/18/2022	5'	<b>2,500</b>	<b>18</b>	<b>15</b>	<b>3.8</b>	<b>7.8</b>	<2.7	<2.1	<4.8	<b>41</b>	<b>6.7</b>	<b>2.8</b>	<b>5.9</b>	<3.1	ND	<4.9	0
SV-4C	10/18/2022	5'	<b>310</b>	<1.2	<1.4	<1.6	<1.6	<2.4	<1.9	<4.3	<b>1.4</b>	<b>12</b>	<b>2.2</b>	<1.3	<2.8	ND	<4.4	0
SV-5A	10/18/2022	5'	<b>1,300</b>	<b>14</b>	<b>8.1</b>	<b>1.9</b>	<1.7	<2.7	<2.1	<b>5.5</b>	<b>220</b>	<b>46</b>	<b>2.4</b>	<1.4	<3.1	ND	<4.9	0
SV-5B	10/18/2022	5'	<b>1,300</b>	<b>12</b>	<b>5.3</b>	<1.7	<1.7	<2.7	<2.1	<b>10</b>	<b>37</b>	<b>2.3</b>	<b>2.5</b>	<b>2.4</b>	<3.1	ND	<4.9	0
SV-5C	10/18/2022	5'	<b>2,000</b>	<b>25</b>	<b>10</b>	<b>2.9</b>	<1.4	<2.2	<1.7	<3.8	<b>31</b>	<b>4.0</b>	<b>2.7</b>	<b>4.5</b>	<2.5	ND	<3.9	0
SV-6A	10/18/2022	5'	<b>1,500</b>	<b>7.2</b>	<b>3.8</b>	<1.7	<1.7	<2.7	<2.1	<4.8	<b>21</b>	<b>16</b>	<b>6.3</b>	<b>4.6</b>	<3.1	ND	<4.9	0
SV-6B	10/18/2022	5'	<b>1,200</b>	<b>4.5</b>	<b>1.9</b>	<1.7	<1.7	<2.7	<2.1	<b>8.0</b>	<b>17</b>	<b>7.2</b>	<b>8.2</b>	<b>1.7</b>	<3.1	ND	<4.9	0
SV-6C	10/18/2022	5'	<b>990</b>	<b>8.5</b>	<b>4.5</b>	<b>2.0</b>	<1.7	<2.7	<2.1	<b>11</b>	<b>20</b>	<2.0	<b>5.4</b>	<b>2.0</b>	<3.1	ND	<4.9	0
<b>RWQCB ESLs - Vapor Intrusion Cancer Risk (Residential)</b>			NE	3.2	NE	37	NE	15	16	NE	NE	4.1	NE	NE	NE	Varies	NE	--
<b>RWQCB ESLs - Vapor Intrusion Non-Cancer Risk (Residential)</b>			20,000	100	10,000	35,000	3,500	1,400	70	1.E+06	NE	3,400	NE	NE	NE	Varies	NE	--
<b>RWQCB ESLs - Vapor Intrusion Cancer Risk (com/ind)</b>			NE	14	NE	160	NE	67	100	NE	NE	18	NE	NE	NE	Varies	NE	--
<b>RWQCB ESLs - Vapor Intrusion Non-Cancer Risk (com/ind)</b>			83,000	440	44,000	150,000	15,000	5,800	290	5.E+06	NE	14,000	NE	NE	NE	Varies	NE	--

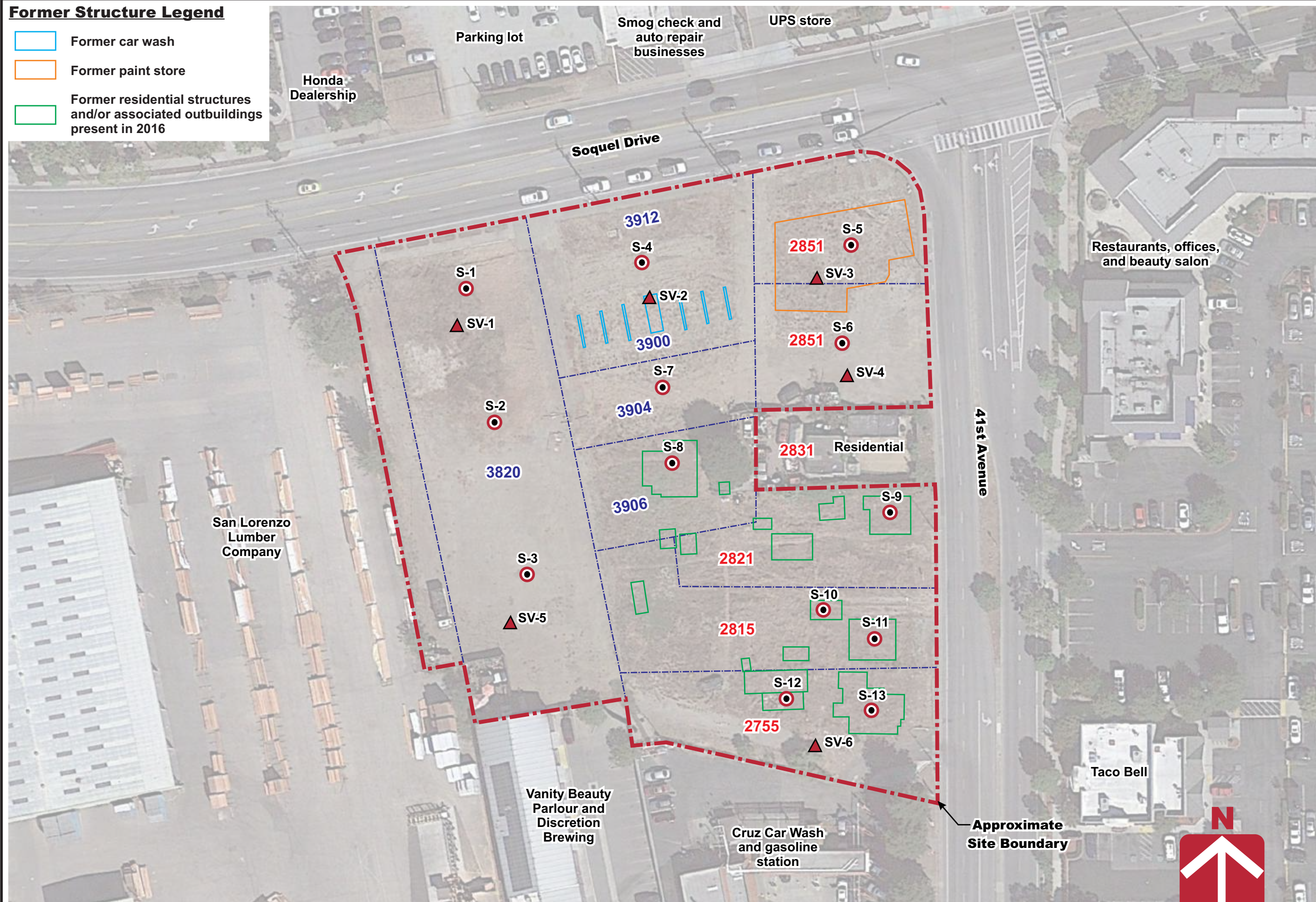
Notes:  
 TPH = total petroleum hydrocarbons  
 VOCs = Volatile Organic Compounds  
 GRO = gasoline range organics.  
 PCE = tetrachloroethene  
 TCE = trichloroethene  
 Sample results reported in micrograms per cubic meter (µg/m3).  
 Bolded value = analyte detected above laboratory method detection limit  
 Shaded value = exceedance of one or more ESL  
 <#.# = not detected above analytical laboratory Method Detection Limit (MDL)

-- = Not applicable  
 NE = ESL not established  
 TPH and VOCs analyzed by USEPA Method TO-15.  
 J = Estimated Value  
 Detection and quantitation limits are raised due to sample dilution (Lab Qualifier A01) for all samples.  
 RWQCB ESL = SF Bay Regional Water Quality Control Board Environmental Screening Level (January 2019, Rev 2).

**APPENDIX A**  
**HISTORICAL SAMPLE MAPS AND**  
**DATA TABLES**

**Former Structure Legend**

- Former car wash
- Former paint store
- Former residential structures and/or associated outbuildings present in 2016



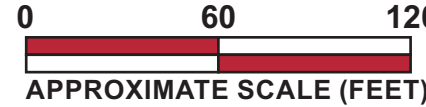
Project Number	902-3-1
Figure Number	Figure 2
Date	June 2022
Drawn By	RRN

**Site Plan**  
Soquel Drive at 41st Avenue  
Soquel, CA

**CORNERSTONE**  
**EARTH GROUP**

**Legend**

- 3820 "Address #" Soquel Drive
- 2851 "Address #" 41st Avenue
- Approximate location of near surface soil sample (S)
- ▲ Approximate location of multi-depth soil vapor sample (SV)



Base by Google Earth, dated 09/26/2020

**Former Structure Legend**

- Former car wash
- Former paint store
- Former residential structures and/or associated outbuildings present in 2016

**Screening Levels**

	Residential ESL <sup>1</sup>	Commercial ESL <sup>1</sup>
1,3-Butadiene	3.1 * $\mu\text{g}/\text{m}^3$	13.7 * $\mu\text{g}/\text{m}^3$
TCE	16 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$
Chloroform	4.1 $\mu\text{g}/\text{m}^3$	18 $\mu\text{g}/\text{m}^3$
Carbon Tetrachloride	16 $\mu\text{g}/\text{m}^3$	68 $\mu\text{g}/\text{m}^3$
Benzene	3.2 $\mu\text{g}/\text{m}^3$	14 $\mu\text{g}/\text{m}^3$
Naphthalene	2.8 $\mu\text{g}/\text{m}^3$	12 $\mu\text{g}/\text{m}^3$

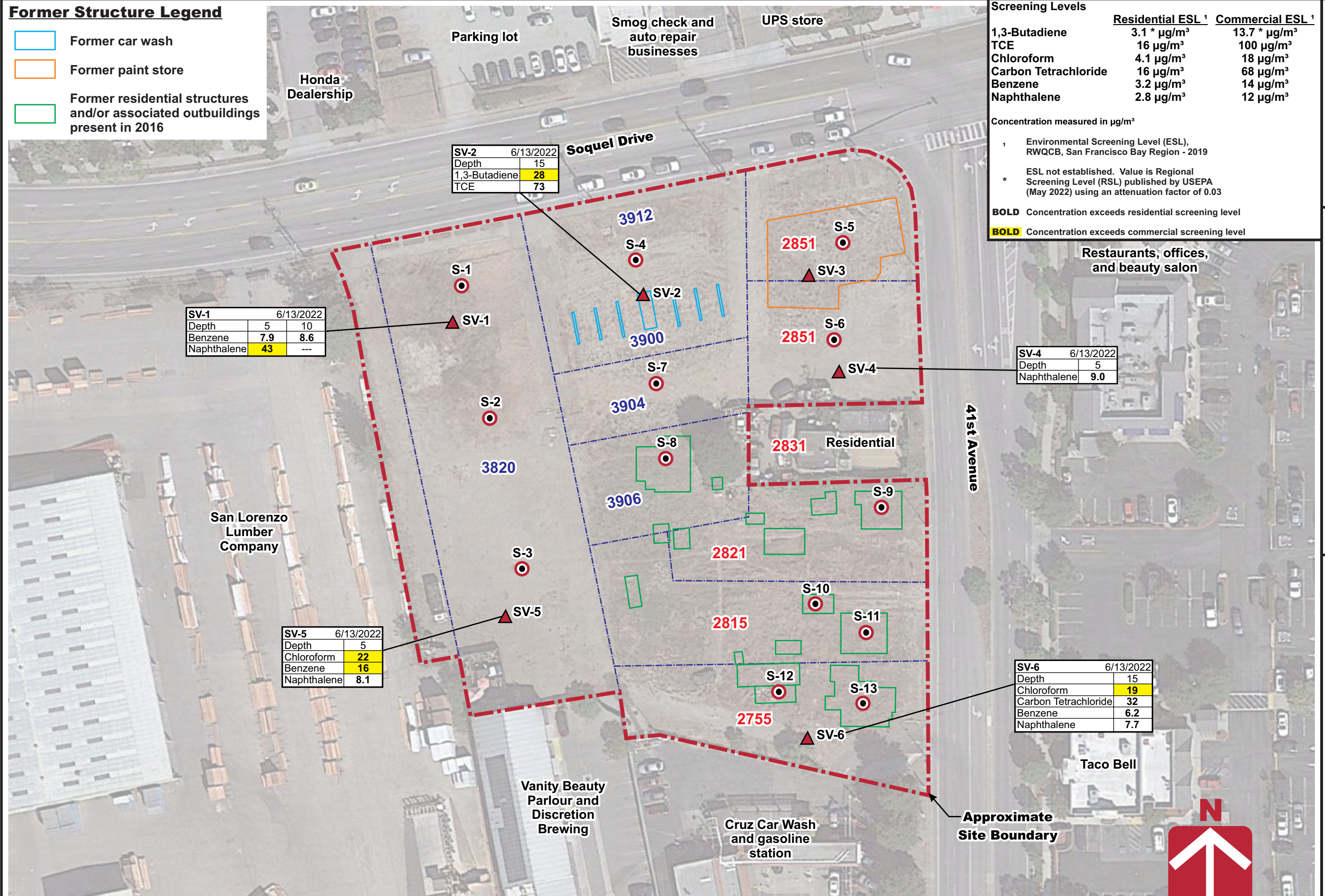
Concentration measured in  $\mu\text{g}/\text{m}^3$

<sup>1</sup> Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - 2019

\* ESL not established. Value is Regional Screening Level (RSL) published by USEPA (May 2022) using an attenuation factor of 0.03

**BOLD** Concentration exceeds residential screening level

**BOLD** Concentration exceeds commercial screening level



SV-1		6/13/2022	
Depth	5	10	
Benzene	<b>7.9</b>	<b>8.6</b>	
Naphthalene	<b>43</b>	---	

SV-2		6/13/2022	
Depth	15		
1,3-Butadiene	<b>28</b>		
TCE	73		

SV-4		6/13/2022	
Depth	5		
Naphthalene	<b>9.0</b>		

SV-5		6/13/2022	
Depth	5		
Chloroform	<b>22</b>		
Benzene	<b>16</b>		
Naphthalene	8.1		

SV-6		6/13/2022	
Depth	15		
Chloroform	<b>19</b>		
Carbon Tetrachloride	<b>32</b>		
Benzene	6.2		
Naphthalene	7.7		

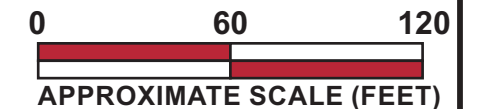
**Legend**

3820 "Address #" Soquel Drive

2851 "Address #" 41st Avenue

Approximate location of near surface soil sample (S)

Approximate location of multi-depth soil vapor sample (SV)



**Table 1. Analytical Results of Soil Samples**  
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	OCPs								Metals	
			4,4'-DDE	4,4'-DDT	DDT Total	alpha-Chlordane	Dieldrin	gamma-Chlordane	Heptachlor epoxide	Technical Chlordane	Arsenic	Lead
S-1 (0-0.5)	6/13/2022	0-½	0.0136 <b>J</b>	0.00436 <b>J</b>	0.01796	0.0101 <b>J</b>	<0.0016	0.00923 <b>J</b>	<0.00083	0.127 <b>J</b>	3.72	57.2
S-2 (0-0.5)	6/13/2022	0-½	0.00522 <b>J</b>	0.00777 <b>J</b>	0.01299	0.019 <b>J</b>	<0.0015	0.0136 <b>J</b>	0.000927 <b>J</b>	0.229	4.73	40.6
S-3 (0-0.5)	6/13/2022	0-½	<0.002	<0.0013	NC	<0.0018	<0.0015	<0.0017	<0.0008	<0.022	1.86	<3.1
S-4 (0-0.5)	6/13/2022	0-½	<0.002	<0.0013	NC	<0.0017	<0.0015	<0.0016	<0.00079	<0.021	1.84	3.59
S-5 (0-0.5)	6/13/2022	0-½	0.00241 <b>J</b>	0.00493 <b>J</b>	0.00734	<0.0018	<0.0015	<0.0017	<0.0008	<0.022	3.62	36.8
S-6 (0-0.5)	6/13/2022	0-½	0.00989 <b>J</b>	0.0122 <b>J</b>	0.02209	0.247	0.0361	0.232	0.0182 <b>J</b>	<b>1.88</b>	7.07	32.9
S-7 (0-0.5)	6/13/2022	0-½	0.00332 <b>J</b>	<0.0014	0.00332	0.00202 <b>J</b>	0.00218 <b>J</b>	0.00197 <b>J</b>	<0.00083	<0.023	4.72	23.5
S-8 (0-0.5)	6/13/2022	0-½	0.0286	0.0263	0.0549	0.00187 <b>J</b>	0.0109 <b>J</b>	<0.0017	<0.0008	<0.022	4.2	47.8
S-9 (0-0.5)	6/13/2022	0-½	<0.002	<0.0013	NC	<0.0018	<0.0015	<0.0017	<0.00081	<0.022	3.53	8.58
S-10 (0-0.5)	6/13/2022	0-½	<0.002	<0.0013	NC	<0.0018	<0.0015	<0.0017	<0.00081	<0.022	3.01	6.97
S-11 (0-0.5)	6/13/2022	0-½	<0.002	<0.0013	NC	<0.0018	<0.0015	<0.0017	<0.00081	<0.022	4.14	9.46
S-12 (0-0.5)	6/13/2022	0-½	0.0124 <b>J</b>	0.0156 <b>J</b>	0.028	0.0042 <b>J</b>	<0.0016	0.00417 <b>J</b>	<0.00082	0.0519 <b>J</b>	4.33	43.8
S-13 (0-0.5)	6/13/2022	0-½	0.00201 <b>J</b>	0.00991 <b>J</b>	0.01192	0.0113 <b>J</b>	<0.0015	0.0107 <b>J</b>	<0.00081	0.148 <b>J</b>	2.58	15.5
Maximum Detection			0.0286	0.0263	0.0549	0.247	0.0361	0.232	0.0182 <b>J</b>	<b>1.88</b>	7.07	57.2
ESL <sup>1</sup> - Direct Exposure (Residential)			1.8	1.9	1 <sup>2</sup>	0.48	0.037	0.48	0.062	0.48 (2.2)	11 <sup>3</sup>	80

1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019. Value in parenthesis is commercial ESL.

2 Total Threshold Limit Concentration - California Code of Regulations, Title 22.

3 Duverge, 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.

< Not detected at or above laboratory reporting limit shown

NC Not Calculated

**BOLD** Concentration exceeds selected Environmental Screening Criteria

**J** Estimated concentration between Method Detection Limit (MDL) and Reporting Limit (RL)



**Table 2. Analytical Results of Soil Vapor Samples**  
(Concentrations in µg/m<sup>3</sup> unless otherwise stated)

Boring ID	Sample ID	Date	Depth (feet)	VOCs																			Fixed Gases			
				Benzene	Toluene	Ethylbenzene	MTBE	TBA	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Butadiene	2-Butanone (MEK)	2-Hexanone	4-Ethyl Toluene	Acetone	Carbon Disulfide	Carbon Tetrachloride	Chloroform	Isopropanol	Naphthalene	TCE	Tetrahydrofuran	m,p-Xylene	o-xylene	Carbon Dioxide (%)	Oxygen (%)
SV-1	SV-1-5	6/13/2022	5	<b>7.9</b>	56	17	9.8	<1.5	47	11	<1.1	80	15	31	370	3	<3.1	<2.4	48	<b>43</b>	6.3	16	96	40	1.5	21
	SV-1-10	6/13/2022	10	<b>8.6</b>	20	12	<1.8	18	11	4.1	<1.1	47	<2.1	9.1	330	5.8	<3.1	<2.4	<12	<2.6	8.5	<1.5	61	20	<0.33	19
SV-2	SV-2-15	6/13/2022	15	<21	<25	<29	<24	<20	<32	<32	<b>28</b>	<19	<27	<32	200	29	<42	<32	<160	<35	<b>73</b>	<19	<29	<29	1.3	20
SV-3	SV-3-5	6/13/2022	5	1.9	3.9	<2.2	<1.8	<1.5	<2.5	<2.5	<1.1	12	<2.1	<2.5	60	<1.6	<3.1	<2.4	25	<2.6	<2.7	<1.5	<2.2	<2.2	0.22	20
SV-4	SV-4-5	6/13/2022	5	1.9	5.2	<2.2	<1.8	28	4.3	<2.5	<1.1	66	<2.1	<2.5	340	3.6	<3.1	<2.4	56	<b>9</b>	<2.7	<1.5	2.8	<2.2	<0.98	21
SV-5	SV-5-5	6/13/2022	5	<b>16</b>	20	2.7	<1.8	<1.5	9.6	2.6	<1.1	120	<2.1	6.2	440	14	<3.1	<b>22</b>	20	<b>8.1</b>	5.8	<1.5	8.6	3.6	<0.5	22
SV-6	SV-6-15	6/13/2022	15	<b>6.2</b>	22	7.7	<1.8	9.2	16	4.4	<1.1	21	<2.1	12	110	2.8	<b>32</b>	<b>19</b>	38	<b>7.7</b>	6	<1.5	32	11	0.58	20
Maximum Detection				<b>16</b>	56	17	9.8	28	47	11	<b>28</b>	120	15	31	440	29	<b>32</b>	<b>22</b>	56	<b>43</b>	<b>73</b>	16	96	40	1.5	21
ESL <sup>1</sup> - Human Health Risk (Residential)				3.2	10,000	37	360	173,333 <sup>2</sup>	2,100 <sup>2</sup>	2,100 <sup>2</sup>	3.13 <sup>2</sup>	170,000	1,033 <sup>2</sup>	NE	1,100,000	24,333 <sup>2</sup>	16	4.1	NA	2.8	16	70,000 <sup>2</sup>	3,500	3,500	NE	NE
ESL <sup>1</sup> - Human Health Risk (Commercial)				14	44,000	160	1,600	733,333 <sup>2</sup>	8,667 <sup>2</sup>	8,667 <sup>2</sup>	13.67 <sup>2</sup>	730,000	4,333 <sup>2</sup>	NE	4,500,000	106,667 <sup>2</sup>	68	18	NA	12	100	293,333 <sup>2</sup>	15,000	15,000	NE	NE

1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019.

2 ESL is not established. Value is calculated soil vapor screening level using indoor air Regional Screening Level (RSL), USEPA Region 9 - May 2022 and an attenuation factor of 0.03.

< Not detected at or above laboratory reporting limit shown

NE Not Established

NA Not Applicable

--- Not analyzed and/or other Environmental Screening Criteria not shown.

**BOLD** Concentration exceeds residential screening level

**BOLD** Concentration exceeds commercial screening level

Red Font **Red font** indicates the laboratory reporting limit shown exceeds one or more of the selected screening levels.

**APPENDIX B**

**SOIL BORING LOGS**



**Environmental Investigation Services, Inc.**  
 316 Mid Valley Center #313, Carmel, California 93923  
 Ph: (408) 656-1032

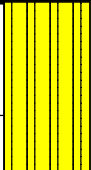

Well Number

**SB-1**

**SOIL BORING LOG**

Project Name: **2755 41st Ave** Drilling Company: **ECA**  
 Site Location: **Soquel, CA** Boring Dia: **2.0 Inches**  
 Job Number: **2226-2** Boring Depth: **1.5**  
 Dates Drilled: **10/13/2022** Method of Drilling: **Geoprobe DPT**  
 Logged By: **P. Willits** Reviewed By: **F. Cook** Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**      ⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0		MH	SILT, dark brown, estimated medium density, slightly damp	SB-1-0.5		
-1				SB-1-1.5		



**Environmental Investigation Services, Inc.**  
 316 Mid Valley Center #313, Carmel, California 93923  
 Ph: (408) 656-1032

Well Number

**SB-2**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**      Drilling Company: **ECA**  
 Site Location: **Soquel, CA**      Boring Dia: **2.0 Inches**  
 Job Number: **2226-2**      Boring Depth: **1.5**  
 Dates Drilled: **10/13/2022**      Method of Drilling: **Geoprobe DPT**  
 Logged By: **P. Willits**      Reviewed By: **F. Cook**      Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**      ⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0		CL	SILTY CLAY, black, estimated medium plasticity, estimated stiff, slightly damp	SB-2-0.5		Cement grout
-1						
				SB-2-1.5		



**Environmental Investigation Services, Inc.**

316 Mid Valley Center #313, Carmel, California 93923

Ph: (408) 656-1032

Well Number

**SB-3**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Drilling Company: **ECA**

Site Location: **Soquel, CA**

Boring Dia: **2.0 Inches**

Job Number: **2226-2**

Boring Depth: **1.5**

Dates Drilled: **10/13/2022**

Method of Drilling: **Geoprobe DPT**

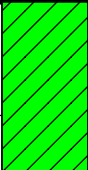

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**

⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0		CL	SILTY CLAY, very dark greyish brown (10 YR 3/2), estimated medium plasticity, estimated stiff, slightly damp	SB-3-0.5		Cement grout
-1				SB-3-1.5		



**Environmental Investigation Services, Inc.**

316 Mid Valley Center #313, Carmel, California 93923

Ph: (408) 656-1032

Well Number

**SB-4**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

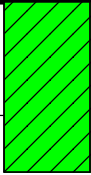

Boring Depth: **1.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**

⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0		CL	SILTY CLAY with trace sand, dark yellowish brown (10 YR 4/6), sand is fine, estimated low plasticity, estimated medium density, slightly damp	SB-4-0.5		Cement grout
-1				SB-4-1.5		



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Well Number

**SB-5**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Drilling Company: **ECA**

Site Location: **Soquel, CA**

Boring Dia: **2.0 Inches**

Job Number: **2226-2**

Boring Depth: **1.5**

Dates Drilled: **10/13/2022**

Method of Drilling: **Geoprobe DPT**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**

⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0		CL	SILTY CLAY, very dark greyish brown (10 YR 3/2), estimated low plasticity, estimated soft, slightly damp	SB-5-0.5		Cement grout
-1				SB-5-1.5		



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Well Number

**SV-1A**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

∇ Water level during drilling **Not Encountered**

▼ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack





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Well Number

**SV-1B**

**SOIL BORING LOG**

Project Name: <b>2755 41st Ave</b>	Drilling Company: <b>ECA</b>
Site Location: <b>Soquel, CA</b>	Boring Dia: <b>2.0 Inches</b>
Job Number: <b>2226-2</b>	Boring Depth: <b>5.5</b>
Dates Drilled: <b>10/13/2022</b>	Method of Drilling: <b>Geoprobe DPT</b>
Logged By: <b>P. Willits</b>	Reviewed By: <b>F. Cook</b>
	Sampling Method: <b>Dual-wall</b>

Water level during drilling **Not Encountered**
                 
  Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-1C**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Drilling Company: **ECA**

Site Location: **Soquel, CA**

Boring Dia: **2.0 Inches**

Job Number: **2226-2**

Boring Depth: **5.5**

Dates Drilled: **10/13/2022**

Method of Drilling: **Geoprobe DPT**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**

⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-2A**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

Water level during drilling **Not Encountered**

Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-2B**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Drilling Company: **ECA**

Site Location: **Soquel, CA**

Boring Dia: **2.0 Inches**

Job Number: **2226-2**

Boring Depth: **5.5**

Dates Drilled: **10/13/2022**

Method of Drilling: **Geoprobe DPT**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Sampling Method: **Dual-wall**

↘ Water level during drilling **Not Encountered**

↙ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-2C**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**

⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0 -1 -2 -3 -4 -5			Blind drill to 5.5'			Bentonite  Soil vapor probe set midway in sandpack



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Well Number

**SV-4A**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**

⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0		CL	SILTY CLAY, black, estimated medium plasticity, estimated stiff, slightly damp			
-1						
-2			Color change to dark yellowish brown (10 YR 4/6), trace medium sand			
-3						
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-4B**

### SOIL BORING LOG

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

∇ Water level during drilling **Not Encountered**

▼ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-4C**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

⚡ Water level during drilling **Not Encountered**

⚡ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack





**Environmental Investigation Services, Inc.**

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Well Number

**SV-5A**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Drilling Company: **ECA**

Site Location: **Soquel, CA**

Boring Dia: **2.0 Inches**

Job Number: **2226-2**

Boring Depth: **5.5**

Dates Drilled: **10/13/2022**

Method of Drilling: **Geoprobe DPT**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Sampling Method: **Dual-wall**

Water level during drilling **Not Encountered**

Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-5B**

**SOIL BORING LOG**

Project Name: <b>2755 41st Ave</b>	Drilling Company: <b>ECA</b>
Site Location: <b>Soquel, CA</b>	Boring Dia: <b>2.0 Inches</b>
Job Number: <b>2226-2</b>	Boring Depth: <b>5.5</b>
Dates Drilled: <b>10/13/2022</b>	Method of Drilling: <b>Geoprobe DPT</b>
Logged By: <b>P. Willits</b>	Reviewed By: <b>F. Cook</b>
	Sampling Method: <b>Dual-wall</b>

Water level during drilling **Not Encountered**
     
  Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Ph: (408) 656-1032

Well Number

**SV-5C**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

↘ Water level during drilling **Not Encountered**

▼ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Well Number

**SV-6A**

**SOIL BORING LOG**

Project Name: <b>2755 41st Ave</b>	Drilling Company: <b>ECA</b>
Site Location: <b>Soquel, CA</b>	Boring Dia: <b>2.0 Inches</b>
Job Number: <b>2226-2</b>	Boring Depth: <b>5.5</b>
Dates Drilled: <b>10/13/2022</b>	Method of Drilling: <b>Geoprobe DPT</b>
Logged By: <b>P. Willits</b>	Reviewed By: <b>F. Cook</b>
	Sampling Method: <b>Dual-wall</b>

Water level during drilling **Not Encountered**     
  Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



**Environmental Investigation Services, Inc.**

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Ph: (408) 656-1032

Well Number

**SV-6B**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Drilling Company: **ECA**

Site Location: **Soquel, CA**

Boring Dia: **2.0 Inches**

Job Number: **2226-2**

Boring Depth: **5.5**

Dates Drilled: **10/13/2022**

Method of Drilling: **Geoprobe DPT**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Sampling Method: **Dual-wall**

∇ Water level during drilling **Not Encountered**

▼ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack



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Ph: (408) 656-1032

Well Number

**SV-6C**

**SOIL BORING LOG**

Project Name: **2755 41st Ave**

Site Location: **Soquel, CA**

Job Number: **2226-2**

Dates Drilled: **10/13/2022**

Logged By: **P. Willits**

Reviewed By: **F. Cook**

Drilling Company: **ECA**

Boring Dia: **2.0 Inches**

Boring Depth: **5.5**

Method of Drilling: **Geoprobe DPT**

Sampling Method: **Dual-wall**

☒ Water level during drilling **Not Encountered**

☒ Water level in completed boring **Not Encountered**

Depth	Lithology	USCS	Soil Description	Sample ID (PID)	Boring Completion	Description
0			Blind drill to 5.5'			
-1						
-2						
-3						Bentonite
-4						
-5						Soil vapor probe set midway in sandpack

## **APPENDIX C**

# **SOIL VAPOR SAMPLING FIELD SHEETS**



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-1A

Project Name Soquel/41st	Project No. 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <input checked="" type="checkbox"/> Other	
Sampling Method(s) <input checked="" type="checkbox"/> Summa Canister _____ Disposal Bailer _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	11:01	11:06						
mL Purged	80	~750 ml						
He % in shroud								
He % out								
Sample Time	11:07	11:14						
He % in shroud								
Hg "	28	5						
Purge Start Hg	20						Can ID	648
Purge End Hg	16						Flow ID	433

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923





# Soil Vapor Well Purging and Sampling Form

Well No.

SV-1A13

Project Name Soquel/41st	Project No. 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Sunuma _____ Vacuum Truck _____ Submersible Pump _____ <input checked="" type="checkbox"/> Other	
Sampling Method(s) _____ <input checked="" type="checkbox"/> Summa Canister _____ Disposal Bailer _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	10:2046	10:45							
mL Purged	Ø	~750							
He % in shroud									
He % out									
Sample Time	10:50	10:50							
He % in shroud									
Hg "	26	41							
Purge Start Hg	24							Can ID	327
Purge End Hg	22							Flow ID	149

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-1C

Project Name    Soquel/41st	Project No.    2226-2	Date    10/18/2022
Project Address, City, County    2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s)    _____ Summa    _____ Vacuum Truck    _____ Submersible Pump <u>X</u> Other	
Sampling Method(s) <u>X</u> Summa Canister    _____ Disposal Bailer    _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle)    5/8"    2"    6"    8"	Casing Diameter (Circle)    3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot)    5.42

**MONITORING MEASUREMENTS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing    ~5 mins. @ 150ml/min
Water Column (WC) (feet)	
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING CALCULATORS**

_____ WD x CM _____	_____ CV (mL) x 3.0 CV (mL) _____
---------------------	-----------------------------------

**PURGING DATA**

Time (24 hr)	10:52	10:57							
mL Purged	0	1750							
He % in shroud									
He % out									
Sample Time	10:58	11:00							
He % in shroud									
Hg "	80	5							
Purge Start Hg	25						Can ID	058	
Purge End Hg	22						Flow ID	398	

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s):    PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-2A

Project Name Soquel/41st	Project No. 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <u>X</u> Other	
Sampling Method(s) <u>X</u> Summa Canister _____ Disposal Bailer _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	10:10	10:15							
mL Purged	φ	~750							
He % in shroud									
He % out									
Sample Time	10:15	10:21							
He % in shroud									
Hg "	30	5							
Purge Start Hg	14							Can ID	217
Purge End Hg	11							Flow ID	353

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.  
**SV-2B**

Project Name <b>Soquel/41st</b>	Project No. <b>2226-2</b>	Date <b>10/18/2022</b>
Project Address, City, County <b>2755 41st Avenue, Soquel, CA</b>		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) <input type="checkbox"/> Summa <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Other	
Sampling Method(s) <input checked="" type="checkbox"/> Summa Canister <input type="checkbox"/> Disposal Bailer <input type="checkbox"/> Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) <b>5/8" 2" 6" 8"</b>	Casing Diameter (Circle) <b>3/16"</b>
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) <b>5.42</b>

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	<input type="checkbox"/> WD x CM <input type="checkbox"/> CV (mL) x 3.0 CV (mL)
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	<b>10:16</b>	<b>10:21</b>						
mL Purged	<b>0</b>	<b>~750</b>						
He % in shroud								
He % out								
Sample Time	<b>10:26</b>	<b>10:34</b>						
He % in shroud								
Hg "	<b>2.8</b>	<b>5</b>						
Purge Start Hg	<b>8.9</b>						Can ID	<b>482</b>
Purge End Hg	<b>6</b>						Flow ID	<b>450</b>

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): <b>PW, LTM</b>	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.  
**SV-2C**

Project Name Soquel/41st	Project No 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

### PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <u>X</u> Other	
Sampling Method(s) <u>X</u> Summa Canister _____ Disposal Bailer _____ Other	

### BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

### MONITORING MEASUREMENTS

### PURGING CALCULATORS

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4) ml
Free Product Thickness (feet)	Free Product Purged (gal)

### PURGING DATA

Time (24 hr)	10:24	10:29							
mL Purged	0	~750							
He % in shroud									
He % out									
Sample Time	10:36	10:45							
He % in shroud									
Hg "	30	5							
Purge Start Hg	10						Can ID	350	
Purge End Hg	8						Flow ID	558	

### SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

### FIELD PERSONNEL

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-4A

Project Name Soquel-41st	Project No. 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <u>X</u> Other	
Sampling Method(s) <u>X</u> Summa Canister _____ Disposal Bailer _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ) ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	9:19	9:24							
mL Purged	<del>731</del> 0	731							
He % in shroud									
He % out									
Sample Time	09:26	09:28	09:30	09:32	09:34				
He % in shroud					69.8%				
Hg "	26	20	15	10	8.4				
Purge Start Hg	22							Can ID	C10008
Purge End Hg	21							Flow ID	A10151

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.  
**SV-4B**

Project Name <b>Soquel/41st</b>	Project No. <b>2226-2</b>	Date <b>10/18/2022</b>
Project Address, City, County <b>2755 41st Avenue, Soquel, CA</b>		

### PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) <input type="checkbox"/> Summa <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Other	
Sampling Method(s) <input checked="" type="checkbox"/> Summa Canister <input type="checkbox"/> Disposal Bailer <input type="checkbox"/> Other	

### BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle) <b>5/8" 2" 6" 8"</b>	Casing Diameter (Circle) <b>3/16"</b>
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) <b>5.42</b>

### MONITORING MEASUREMENTS

### PURGING CALCULATORS

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	<b>WD x CM</b> <b>CV (mL) x 3.0 CV (mL)</b>
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing <b>~5 mins. @ 150ml/min</b>
Water Column (WC) (feet)	<b>206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml</b>
Free Product Thickness (feet)	Free Product Purged (gal)

### PURGING DATA

Time (24 hr)	09:26	09:31							
mL Purged	0	~750							
He % in shroud									
He % out									
Sample Time	09:37	09:46							
He % in shroud									
Hg "	27	5							
Purge Start Hg	21							Can ID	175
Purge End Hg	18							Flow ID	374

### SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

### FIELD PERSONNEL

Field Technician Representative(s): <b>PW, LTM</b>	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-46

Project Name Soquel/41st	Project No. 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

### PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <input checked="" type="checkbox"/> Other	
Sampling Method(s) <input checked="" type="checkbox"/> Summa Canister _____ Disposal Bailer _____ Other	

### BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

### MONITORING MEASUREMENTS

### PURGING CALCULATORS

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

### PURGING DATA

Time (24 hr)	09:39	09:44							
mL Purged	180	~750							
He % in shroud									
He % out									
Sample Time	09:51	10:00							
He % in shroud									
Hg "	28	5							
Purge Start Hg	18							Can ID	059
Purge End Hg	15							Flow ID	396

### SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

### FIELD PERSONNEL

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923





# Soil Vapor Well Purging and Sampling Form

Well No.  
**SV-5A**

Project Name <b>Soquel/41st</b>	Project No. <b>2226-2</b>	Date <b>10/18/2022</b>
Project Address, City, County <b>2755 41st Avenue, Soquel, CA</b>		

### PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <input checked="" type="checkbox"/> Other	
Sampling Method(s) <input checked="" type="checkbox"/> Summa Canister _____ Disposal Bailer _____ Other	

### BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle) <b>5/8" 2" 6" 8"</b>	Casing Diameter (Circle) <b>3/16"</b>
Sand Pack Volume = <b>618 ml x 1/3 porosity = 206 ml</b>	Casing Multiplier (CM) (mL/foot) <b>5.42</b>

### MONITORING MEASUREMENTS

### PURGING CALCULATORS

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

### PURGING DATA

Time (24 hr)	<b>11:19</b>	<b>11:24</b>						
mL Purged	<b>Ø</b>	<b>.</b>						
He % in shroud								
He % out								
Sample Time	<b>11:25</b>	<b>11:32</b>						
He % in shroud								
Hg "	<b>27</b>	<b>5</b>						
Purge Start Hg	<b>14</b>						Can ID	<b>304</b>
Purge End Hg	<b>10</b>						Flow ID	<b>167</b>

### SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

### FIELD PERSONNEL

Field Technician Representative(s): <b>PW, LTM</b>	Subcontractor:
Signature	Date:



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-53

Project Name Soquel/41st	Project No. 2236-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <u>  X  </u> Other	
Sampling Method(s) <u>  X  </u> Summa Canister _____ Disposal Bailer _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	11:25	11:30							
mL Purged									
He % in shroud									
He % out									
Sample Time	11:34	11:41							
He % in shroud									
Hg "	28	41							
Purge Start Hg	10							Can ID	172
Purge End Hg	8							Flow ID	272

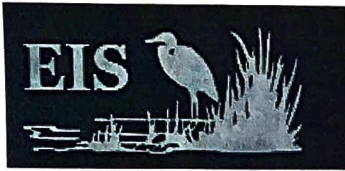
**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-50

Project Name Soquel/41st	Project No. 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <u>  X  </u> Other	
Sampling Method(s) <u>  X  </u> Summa Canister _____ Disposal Bailer _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4) ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	11:35	11:40						
mL Purged								
He % in shroud								
He % out								
Sample Time	11:44	11:56						
He % in shroud								
Hg "	30	5						
Purge Start Hg	12						Can ID	216
Purge End Hg	10						Flow ID	377

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.  
**SV-6A**

Project Name <b>Soquel/41st</b>	Project No. <b>2226-2</b>	Date <b>10/18/2022</b>
Project Address, City, County <b>2755 41st Avenue, Soquel, CA</b>		

### PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) <input type="checkbox"/> Summa <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Other	
Sampling Method(s) <input checked="" type="checkbox"/> Summa Canister <input type="checkbox"/> Disposal Bailer <input type="checkbox"/> Other	

### BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle) <b>5/8" 2" 6" 8"</b>	Casing Diameter (Circle) <b>3/16"</b>
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) <b>5.42</b>

### MONITORING MEASUREMENTS

### PURGING CALCULATORS

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	<input type="checkbox"/> WD x CM <input type="checkbox"/> CV (mL) x 3.0 CV (mL)
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml
Free Product Thickness (feet)	Free Product Purged (gal)

### PURGING DATA

Time (24 hr)	<b>12:01</b>	<b>12:06</b>						
mL Purged								
He % in shroud								
He % out								
Sample Time	<b>12:07</b>	<b>12:15</b>						
He % in shroud								
Hg "	<b>30</b>	<b>5</b>						
Purge Start Hg	<b>7</b>						Can ID	<b>211</b>
Purge End Hg	<b>4</b>						Flow ID	<b>262</b>

### SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

### FIELD PERSONNEL

Field Technician Representative(s): <b>PW, LTM</b>	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.

SK-6B

Project Name    Soquel/41st	Project No. 2226-2	Date    10/18/2022
Project Address, City, County    2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s)    _____ Summa    _____ Vacuum Truck    _____ Submersible Pump <u>  X  </u> Other	
Sampling Method(s) <u>  X  </u> Summa Canister    _____ Disposal Bailer    _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle)    5/8"    2"    6"    8"	Casing Diameter (Circle)    3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot)    5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM    _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing    ~5 mins. @ 150ml/min
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml    x 3 = ( 731.4 ) ml
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	12:08	12:13							
mL Purged									
He % in shroud									
He % out									
Sample Time	12:17	12:24							
He % in shroud									
Hg "	28	5							
Purge Start Hg	2							Can ID	276
Purge End Hg	0							Flow ID	123

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923



# Soil Vapor Well Purging and Sampling Form

Well No.

SV-6C

Project Name Soquel/41st	Project No. 2226-2	Date 10/18/2022
Project Address, City, County 2755 41st Avenue, Soquel, CA		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) _____ Summa _____ Vacuum Truck _____ Submersible Pump <u>X</u> Other	
Sampling Method(s) <u>X</u> Summa Canister _____ Disposal Bailer _____ Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 5/8" 2" 6" 8"	Casing Diameter (Circle) 3/16"
Sand Pack Volume = 618 ml x 1/3 porosity = 206 ml	Casing Multiplier (CM) (mL/foot) 5.42

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Casing Volume (CV)
Depth to Water (DTW) (feet)	_____ WD x CM _____ CV (mL) x 3.0 CV (mL) _____
Total Well Depth (WD) (feet)	Purge = 206 ml/ft sandpack + 5.4 ml/ft tubing <span style="float: right;">~54ml @ 150ml/min</span>
Water Column (WC) (feet)	206 + 5.4 ( 7 ) = 243.8ml x 3 = ( 731.4 ml <span style="float: right;">13 x 60ml syringe</span>
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)									
	12:20	12:25							
mL Purged	0	~750							
He % in shroud									
He % out									
Sample Time	12:28	12:35							
He % in shroud									
Hg "	28	5							
Purge Start Hg	-	.						Can ID	176
Purge End Hg	-							Flow ID	437

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**FIELD PERSONNEL**

Field Technician Representative(s): PW, LTM	Subcontractor:
Signature	Date:

Environmental Investigation Services, Inc.  
316 Mid Valley Center #313  
Carmel, California 93923

**APPENDIX D**

**SOIL ANALYTICAL REPORT**



Date of Report: 10/28/2022

Peter Littman

Environmental Investigation Services

316 Mid Valley Ctr #313  
Carmel, CA 93923

Client Project: 2226-2 2755 41st Ave

BCL Project: Soil Samples

BCL Work Order: 2224809

Invoice ID: B461620

Enclosed are the results of analyses for samples received by the laboratory on 10/14/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ragen Schallock", positioned above a horizontal line.

Contact Person: Ragen Schallock  
Client Service Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", positioned above a horizontal line.

Stuart Buttram  
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
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# Chain of Custody

4100 Atlas Court Bakersfield, Ca. 93308  
(661) 327-4911 • FAX (661) 327-1918 • www.pacelabs.com

**BC LABORATORIES**

TEMP: 22-24809  
 Client/Company Name: **Environmental Investigation Services, Inc. (EIS)**  
 Report Attention: **Peter Willis**  
 Phone: \*408 596-0721 FAX: \*  
 E-mail: **pwillis@EIS1.net**

Address: **316 Mid Valley Center #313 Carmel CA 93923**  
 City: **Carmel** State: **CA** Zip: **93923**  
 Project Information: **2226-2 2755 41st Ave, 504 CA**  
 PO # **504 CA** BCL Quote #  
 How would you like your completed results sent?  E-Mail  Fax  EDD  Mail Only

Sampler Name Printed / Signature: **Peter Willis**  
 QC Request  STD  Level II  Result Request \*\* Surcharge  STD  5 Day\*\*  2 Day\*\*  1 Day\*\*  
 Matrix Types: **ESW = Raw Surface Water CFW = Chlorinated Finished Water CIWW = Chlorinated Waste Water BW = Bottled Water**  
**RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SD = Solid**

Sample #	Number of Bottles	Sampled Date	Sampled Time	Sample Description / Location	Matrix	Comments / Status Code
1	1	8:28	8:28	50-1-0.5	Soil	
2	1	8:30	8:30	50-1-1.5		
3	1	8:40	8:40	50-2-0.5		
4	1	8:35	8:35	50-2-1.5		
5	1	8:45	8:45	50-3-0.5		
6	1	8:41	8:41	50-3-1.5		
7	1	8:48	8:48	50-4-0.5		
8	1	8:47	8:47	50-4-1.5		
9	1	8:25	8:25	50-5-0.5		
10	1	8:26	8:26	50-5-1.5		

Relinquished by: (Signature and Printed Name) **Loren Talley**  
 Relinquished by: (Signature and Printed Name) **Loren Talley**  
 Company: **EIS**  
 Received by: (Signature and Printed Name) **Suraya S. Sarda**  
 Received by: (Signature and Printed Name) **Suraya S. Sarda**  
 Company: **Pace**

Received for Lab by: (Signature and Printed Name)  
 Shipping Method: **CAO UPS GSO WALK-IN SVC FEDEX OTHER**  
 Cooling Method: **WET BLUE NONE**  
 Packing Material:  
 Payment Received at Delivery: **10/14/12 12:40**  
 Date: **10/14/12 12:40** Amount: **10-14-12 12:40**  
 Date: **10-14-12 12:40** Amount: **10-14-12 12:40**

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 1						
Submission #: <u>22-24809</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input checked="" type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (W) S					
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: <u>Not enough ice.</u>										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.50</u> Container: <u>soil sleeve</u> thermometer ID: <u>337</u>		Date/Time <u>10-14-22</u>						
		Temperature: (A) <u>10.0</u> °C / (C) <u>10.0</u> °C		Analyst Init <u>SMH/12:40</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pt PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/605.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 5270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE <u>plastic</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: 5, 7 soil sleeve has water  
 Sample Numbering Completed By: PRE Date/Time: 10/17/22 2126  
 A = Actual / C = Corrected



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

**Reported:** 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	
2224809-01	<b>COC Number:</b>	---		10/14/2022	12:40
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	10/13/2022 08:28
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-1-0.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits		<b>Sample Type:</b>	Soil
2224809-02	<b>COC Number:</b>	---		10/14/2022	12:40
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	10/13/2022 08:30
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-1-1.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits		<b>Sample Type:</b>	Soil
2224809-03	<b>COC Number:</b>	---		10/14/2022	12:40
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	10/13/2022 08:40
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-2-0.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits		<b>Sample Type:</b>	Soil
2224809-04	<b>COC Number:</b>	---		10/14/2022	12:40
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	10/13/2022 08:35
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-2-1.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits		<b>Sample Type:</b>	Soil
2224809-05	<b>COC Number:</b>	---		10/14/2022	12:40
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	10/13/2022 08:45
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-3-0.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits		<b>Sample Type:</b>	Soil
2224809-06	<b>COC Number:</b>	---		10/14/2022	12:40
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	10/13/2022 08:41
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-3-1.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits		<b>Sample Type:</b>	Soil
2224809-07	<b>COC Number:</b>	---		10/14/2022	12:40
	<b>Project Number:</b>	---		<b>Sampling Date:</b>	10/13/2022 08:48
	<b>Sampling Location:</b>	---		<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-4-0.5		<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits		<b>Sample Type:</b>	Soil

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Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

**Reported:** 10/28/2022 10:44  
**Project:** Soil Samples  
**Project Number:** 2226-2 2755 41st Ave  
**Project Manager:** Peter Littman

## Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2224809-08	<b>COC Number:</b>	---	<b>Receive Date:</b>	10/14/2022 12:40
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	10/13/2022 08:47
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-4-1.5	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits	<b>Sample Type:</b>	Soil
2224809-09	<b>COC Number:</b>	---	<b>Receive Date:</b>	10/14/2022 12:40
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	10/13/2022 08:25
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-5-0.5	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits	<b>Sample Type:</b>	Soil
2224809-10	<b>COC Number:</b>	---	<b>Receive Date:</b>	10/14/2022 12:40
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	10/13/2022 08:26
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	SB-5-1.5	<b>Lab Matrix:</b>	Solids
	<b>Sampled By:</b>	Peter Willits	<b>Sample Type:</b>	Soil

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Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 2224809-01	<b>Client Sample Name:</b> SB-1-0.5, 10/13/2022 8:28:00AM, Peter Willits
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.0058	0.00021	EPA-8081A	1.4	A10	1
alpha-BHC	ND	mg/kg	0.0058	0.00044	EPA-8081A		A10	1
beta-BHC	ND	mg/kg	0.0058	0.00055	EPA-8081A		A10	1
delta-BHC	ND	mg/kg	0.0058	0.00043	EPA-8081A		A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0058	0.00021	EPA-8081A	4.0	A10	1
<b>Chlordane (Technical)</b>	<b>2.9</b>	<b>mg/kg</b>	<b>0.58</b>	<b>0.012</b>	<b>EPA-8081A</b>	2.5	<b>A10</b>	1
<b>4,4'-DDD</b>	<b>0.052</b>	<b>mg/kg</b>	<b>0.0058</b>	<b>0.00074</b>	<b>EPA-8081A</b>	1.0	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.0072</b>	<b>mg/kg</b>	<b>0.0058</b>	<b>0.0011</b>	<b>EPA-8081A</b>	1.0	<b>A10</b>	1
<b>4,4'-DDT</b>	<b>0.0069</b>	<b>mg/kg</b>	<b>0.0058</b>	<b>0.00046</b>	<b>EPA-8081A</b>	1.0	<b>A10</b>	1
<b>Dieldrin</b>	<b>0.060</b>	<b>mg/kg</b>	<b>0.0058</b>	<b>0.00042</b>	<b>EPA-8081A</b>	8.0	<b>A10</b>	1
Endosulfan I	ND	mg/kg	0.0058	0.00023	EPA-8081A		A10	1
Endosulfan II	ND	mg/kg	0.0058	0.00039	EPA-8081A		A10	1
Endosulfan sulfate	ND	mg/kg	0.0058	0.00030	EPA-8081A		A10	1
Endrin	ND	mg/kg	0.0058	0.00075	EPA-8081A	0.2	A10	1
Endrin aldehyde	ND	mg/kg	0.0058	0.00021	EPA-8081A		A10	1
Heptachlor	ND	mg/kg	0.0058	0.00099	EPA-8081A	4.7	A10	1
Heptachlor epoxide	ND	mg/kg	0.0058	0.00020	EPA-8081A		A10	1
Methoxychlor	ND	mg/kg	0.0058	0.0011	EPA-8081A	100	A10	1
Toxaphene	ND	mg/kg	0.58	0.016	EPA-8081A	5	A10	1
TCMX (Surrogate)	2.4	%	20 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1
Decachlorobiphenyl (Surrogate)	7.0	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/25/22 21:15	HKS	GC-17	11.538	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 2224809-02	<b>Client Sample Name:</b> SB-1-1.5, 10/13/2022 8:30:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTL Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	2.5		1
4,4'-DDD	ND	mg/kg	0.00050	0.000064	EPA-8081A	1.0		1
4,4'-DDE	ND	mg/kg	0.00050	0.000095	EPA-8081A	1.0		1
4,4'-DDT	ND	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	1.6	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	5.4	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/25/22 21:29	HKS	GC-17	0.993	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 2224809-03	<b>Client Sample Name:</b> SB-2-0.5, 10/13/2022 8:40:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTL Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
<b>Chlordane (Technical)</b>	<b>0.27</b>	<b>mg/kg</b>	<b>0.050</b>	<b>0.0010</b>	<b>EPA-8081A</b>	2.5		1
<b>4,4'-DDD</b>	<b>0.0043</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000064</b>	<b>EPA-8081A</b>	1.0		1
<b>4,4'-DDE</b>	<b>0.00078</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000095</b>	<b>EPA-8081A</b>	1.0		1
<b>4,4'-DDT</b>	<b>0.00060</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000040</b>	<b>EPA-8081A</b>	1.0		1
<b>Dieldrin</b>	<b>0.0051</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000036</b>	<b>EPA-8081A</b>	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	0.3	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	1.7	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/26/22 10:06	HKS	GC-17	0.990	B152432	EPA 3550B

DCN = Data Continuation Number





Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 2224809-04	<b>Client Sample Name:</b> SB-2-1.5, 10/13/2022 8:35:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTL Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	2.5		1
4,4'-DDD	ND	mg/kg	0.00050	0.000064	EPA-8081A	1.0		1
4,4'-DDE	ND	mg/kg	0.00050	0.000095	EPA-8081A	1.0		1
4,4'-DDT	ND	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
Dieldrin	ND	mg/kg	0.00050	0.000036	EPA-8081A	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	1.0	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	2.5	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/25/22 21:58	HKS	GC-17	1.014	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2224809-05	Client Sample Name: SB-3-0.5, 10/13/2022 8:45:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTL Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
<b>Chlordane (Technical)</b>	<b>0.038</b>	<b>mg/kg</b>	<b>0.050</b>	<b>0.0010</b>	<b>EPA-8081A</b>	2.5	J	1
<b>4,4'-DDD</b>	<b>0.00098</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000064</b>	<b>EPA-8081A</b>	1.0		1
<b>4,4'-DDE</b>	<b>0.00053</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000095</b>	<b>EPA-8081A</b>	1.0		1
4,4'-DDT	ND	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
<b>Dieldrin</b>	<b>0.0021</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000036</b>	<b>EPA-8081A</b>	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
<b>Heptachlor epoxide</b>	<b>0.0024</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000017</b>	<b>EPA-8081A</b>			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	0.5	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	1.6	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/26/22 10:20	HKS	GC-17	1.017	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 2224809-06	<b>Client Sample Name:</b> SB-3-1.5, 10/13/2022 8:41:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTL Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
Chlordane (Technical)	ND	mg/kg	0.050	0.0010	EPA-8081A	2.5		1
<b>4,4'-DDD</b>	<b>0.00043</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000064</b>	<b>EPA-8081A</b>	1.0	<b>J</b>	1
4,4'-DDE	ND	mg/kg	0.00050	0.000095	EPA-8081A	1.0		1
4,4'-DDT	ND	mg/kg	0.00050	0.000040	EPA-8081A	1.0		1
<b>Dieldrin</b>	<b>0.00073</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000036</b>	<b>EPA-8081A</b>	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	1.6	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	6.1	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/25/22 22:26	HKS	GC-17	1.017	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 2224809-07	<b>Client Sample Name:</b> SB-4-0.5, 10/13/2022 8:48:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTL Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.0050	0.00018	EPA-8081A	1.4	A10,S09	1
alpha-BHC	ND	mg/kg	0.0050	0.00038	EPA-8081A		A10,S09	1
beta-BHC	ND	mg/kg	0.0050	0.00048	EPA-8081A		A10,S09	1
delta-BHC	ND	mg/kg	0.0050	0.00037	EPA-8081A		A10,S09	1
gamma-BHC (Lindane)	ND	mg/kg	0.0050	0.00018	EPA-8081A	4.0	A10,S09	1
<b>Chlordane (Technical)</b>	<b>0.37</b>	<b>mg/kg</b>	<b>0.50</b>	<b>0.010</b>	<b>EPA-8081A</b>	2.5	<b>J,A10,S09</b>	1
<b>4,4'-DDD</b>	<b>0.016</b>	<b>mg/kg</b>	<b>0.0050</b>	<b>0.00064</b>	<b>EPA-8081A</b>	1.0	<b>A10,S09</b>	1
<b>4,4'-DDE</b>	<b>0.0040</b>	<b>mg/kg</b>	<b>0.0050</b>	<b>0.00095</b>	<b>EPA-8081A</b>	1.0	<b>J,A10,S09</b>	1
<b>4,4'-DDT</b>	<b>0.0031</b>	<b>mg/kg</b>	<b>0.0050</b>	<b>0.00040</b>	<b>EPA-8081A</b>	1.0	<b>J,A10,S09</b>	1
<b>Dieldrin</b>	<b>0.019</b>	<b>mg/kg</b>	<b>0.0050</b>	<b>0.00036</b>	<b>EPA-8081A</b>	8.0	<b>A10,S09</b>	1
Endosulfan I	ND	mg/kg	0.0050	0.00020	EPA-8081A		A10,S09	1
Endosulfan II	ND	mg/kg	0.0050	0.00034	EPA-8081A		A10,S09	1
Endosulfan sulfate	ND	mg/kg	0.0050	0.00026	EPA-8081A		A10,S09	1
Endrin	ND	mg/kg	0.0050	0.00065	EPA-8081A	0.2	A10,S09	1
Endrin aldehyde	ND	mg/kg	0.0050	0.00018	EPA-8081A		A10,S09	1
Heptachlor	ND	mg/kg	0.0050	0.00086	EPA-8081A	4.7	A10,S09	1
<b>Heptachlor epoxide</b>	<b>0.021</b>	<b>mg/kg</b>	<b>0.0050</b>	<b>0.00017</b>	<b>EPA-8081A</b>		<b>A10,S09</b>	1
Methoxychlor	ND	mg/kg	0.0050	0.00094	EPA-8081A	100	A10,S09	1
Toxaphene	ND	mg/kg	0.50	0.014	EPA-8081A	5	A10,S09	1
TCMX (Surrogate)	0.5	%	20 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1
Decachlorobiphenyl (Surrogate)	4.3	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/25/22 23:37	HKS	GC-17	10.169	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

BCL Sample ID: 2224809-08	Client Sample Name: SB-4-1.5, 10/13/2022 8:47:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.0010	0.000036	EPA-8081A	1.4	A10	1
alpha-BHC	ND	mg/kg	0.0010	0.000076	EPA-8081A		A10	1
beta-BHC	ND	mg/kg	0.0010	0.000096	EPA-8081A		A10	1
delta-BHC	ND	mg/kg	0.0010	0.000074	EPA-8081A		A10	1
gamma-BHC (Lindane)	ND	mg/kg	0.0010	0.000036	EPA-8081A	4.0	A10	1
<b>Chlordane (Technical)</b>	<b>0.065</b>	<b>mg/kg</b>	<b>0.10</b>	<b>0.0020</b>	<b>EPA-8081A</b>	2.5	<b>J,A10</b>	1
<b>4,4'-DDD</b>	<b>0.0027</b>	<b>mg/kg</b>	<b>0.0010</b>	<b>0.00013</b>	<b>EPA-8081A</b>	1.0	<b>A10</b>	1
<b>4,4'-DDE</b>	<b>0.00061</b>	<b>mg/kg</b>	<b>0.0010</b>	<b>0.00019</b>	<b>EPA-8081A</b>	1.0	<b>J,A10</b>	1
4,4'-DDT	ND	mg/kg	0.0010	0.000080	EPA-8081A	1.0	A10	1
<b>Dieldrin</b>	<b>0.0023</b>	<b>mg/kg</b>	<b>0.0010</b>	<b>0.000072</b>	<b>EPA-8081A</b>	8.0	<b>A10</b>	1
Endosulfan I	ND	mg/kg	0.0010	0.000040	EPA-8081A		A10	1
Endosulfan II	ND	mg/kg	0.0010	0.000068	EPA-8081A		A10	1
Endosulfan sulfate	ND	mg/kg	0.0010	0.000052	EPA-8081A		A10	1
Endrin	ND	mg/kg	0.0010	0.00013	EPA-8081A	0.2	A10	1
Endrin aldehyde	ND	mg/kg	0.0010	0.000036	EPA-8081A		A10	1
Heptachlor	ND	mg/kg	0.0010	0.00017	EPA-8081A	4.7	A10	1
<b>Heptachlor epoxide</b>	<b>0.0019</b>	<b>mg/kg</b>	<b>0.0010</b>	<b>0.000034</b>	<b>EPA-8081A</b>		<b>A10</b>	1
Methoxychlor	ND	mg/kg	0.0010	0.00019	EPA-8081A	100	A10	1
Toxaphene	ND	mg/kg	0.10	0.0028	EPA-8081A	5	A10	1
TCMX (Surrogate)	1.3	%	20 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1
Decachlorobiphenyl (Surrogate)	2.9	%	40 - 130 (LCL - UCL)		EPA-8081A		A10,S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/25/22 23:51	HKS	GC-17	2.007	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

**BCL Sample ID:** 2224809-09      **Client Sample Name:** SB-5-0.5, 10/13/2022 8:25:00AM, Peter Willits

Constituent	Result	Units	PQL	MDL	Method	TTLIC Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
<b>Chlordane (Technical)</b>	<b>0.066</b>	<b>mg/kg</b>	<b>0.050</b>	<b>0.0010</b>	<b>EPA-8081A</b>	2.5		1
<b>4,4'-DDD</b>	<b>0.00073</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000064</b>	<b>EPA-8081A</b>	1.0		1
<b>4,4'-DDE</b>	<b>0.00040</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000095</b>	<b>EPA-8081A</b>	1.0	J	1
<b>4,4'-DDT</b>	<b>0.00055</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000040</b>	<b>EPA-8081A</b>	1.0		1
<b>Dieldrin</b>	<b>0.00065</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000036</b>	<b>EPA-8081A</b>	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
<b>Heptachlor epoxide</b>	<b>0.0013</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000017</b>	<b>EPA-8081A</b>			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	1.6	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	5.0	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/26/22 00:06	HKS	GC-17	1.014	B152432	EPA 3550B

DCN = Data Continuation Number

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Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

<b>BCL Sample ID:</b> 2224809-10	<b>Client Sample Name:</b> SB-5-1.5, 10/13/2022 8:26:00AM, Peter Willits
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Constituent	Result	Units	PQL	MDL	Method	TTL Limits	Lab Quals	DCN
Aldrin	ND	mg/kg	0.00050	0.000018	EPA-8081A	1.4		1
alpha-BHC	ND	mg/kg	0.00050	0.000038	EPA-8081A			1
beta-BHC	ND	mg/kg	0.00050	0.000048	EPA-8081A			1
delta-BHC	ND	mg/kg	0.00050	0.000037	EPA-8081A			1
gamma-BHC (Lindane)	ND	mg/kg	0.00050	0.000018	EPA-8081A	4.0		1
<b>Chlordane (Technical)</b>	<b>0.067</b>	<b>mg/kg</b>	<b>0.050</b>	<b>0.0010</b>	<b>EPA-8081A</b>	2.5		1
<b>4,4'-DDD</b>	<b>0.00062</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000064</b>	<b>EPA-8081A</b>	1.0		1
<b>4,4'-DDE</b>	<b>0.00053</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000095</b>	<b>EPA-8081A</b>	1.0		1
<b>4,4'-DDT</b>	<b>0.00035</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000040</b>	<b>EPA-8081A</b>	1.0	J	1
<b>Dieldrin</b>	<b>0.00088</b>	<b>mg/kg</b>	<b>0.00050</b>	<b>0.000036</b>	<b>EPA-8081A</b>	8.0		1
Endosulfan I	ND	mg/kg	0.00050	0.000020	EPA-8081A			1
Endosulfan II	ND	mg/kg	0.00050	0.000034	EPA-8081A			1
Endosulfan sulfate	ND	mg/kg	0.00050	0.000026	EPA-8081A			1
Endrin	ND	mg/kg	0.00050	0.000065	EPA-8081A	0.2		1
Endrin aldehyde	ND	mg/kg	0.00050	0.000018	EPA-8081A			1
Heptachlor	ND	mg/kg	0.00050	0.000086	EPA-8081A	4.7		1
Heptachlor epoxide	ND	mg/kg	0.00050	0.000017	EPA-8081A			1
Methoxychlor	ND	mg/kg	0.00050	0.000094	EPA-8081A	100		1
Toxaphene	ND	mg/kg	0.050	0.0014	EPA-8081A	5		1
TCMX (Surrogate)	1.1	%	20 - 130 (LCL - UCL)		EPA-8081A		S09	1
Decachlorobiphenyl (Surrogate)	17.7	%	40 - 130 (LCL - UCL)		EPA-8081A		S09	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8081A	10/20/22 20:30	10/26/22 00:20	HKS	GC-17	1.014	B152432	EPA 3550B

DCN = Data Continuation Number



Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B152432</b>						
Aldrin	B152432-BLK1	ND	mg/kg	0.00050	0.000018	
alpha-BHC	B152432-BLK1	ND	mg/kg	0.00050	0.000038	
beta-BHC	B152432-BLK1	ND	mg/kg	0.00050	0.000048	
delta-BHC	B152432-BLK1	ND	mg/kg	0.00050	0.000037	
gamma-BHC (Lindane)	B152432-BLK1	ND	mg/kg	0.00050	0.000018	
Chlordane (Technical)	B152432-BLK1	ND	mg/kg	0.050	0.0010	
4,4'-DDD	B152432-BLK1	ND	mg/kg	0.00050	0.000064	
4,4'-DDE	B152432-BLK1	ND	mg/kg	0.00050	0.000095	
4,4'-DDT	B152432-BLK1	ND	mg/kg	0.00050	0.000040	
Dieldrin	B152432-BLK1	ND	mg/kg	0.00050	0.000036	
Endosulfan I	B152432-BLK1	ND	mg/kg	0.00050	0.000020	
Endosulfan II	B152432-BLK1	ND	mg/kg	0.00050	0.000034	
Endosulfan sulfate	B152432-BLK1	ND	mg/kg	0.00050	0.000026	
Endrin	B152432-BLK1	ND	mg/kg	0.00050	0.000065	
Endrin aldehyde	B152432-BLK1	ND	mg/kg	0.00050	0.000018	
Heptachlor	B152432-BLK1	ND	mg/kg	0.00050	0.000086	
Heptachlor epoxide	B152432-BLK1	ND	mg/kg	0.00050	0.000017	
Methoxychlor	B152432-BLK1	ND	mg/kg	0.00050	0.000094	
Toxaphene	B152432-BLK1	ND	mg/kg	0.050	0.0014	
<b>TCMX (Surrogate)</b>	<b>B152432-BLK1</b>	<b>128</b>	<b>%</b>	<b>20 - 130 (LCL - UCL)</b>		
<b>Decachlorobiphenyl (Surrogate)</b>	<b>B152432-BLK1</b>	<b>109</b>	<b>%</b>	<b>40 - 130 (LCL - UCL)</b>		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
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Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B152432</b>										
Aldrin	B152432-BS1	LCS	0.0045770	0.0050676	mg/kg	90.3		70 - 130		
gamma-BHC (Lindane)	B152432-BS1	LCS	0.0048895	0.0050676	mg/kg	96.5		60 - 140		
4,4'-DDT	B152432-BS1	LCS	0.0042611	0.0050676	mg/kg	84.1		60 - 140		
Dieldrin	B152432-BS1	LCS	0.0045074	0.0050676	mg/kg	88.9		70 - 130		
Endrin	B152432-BS1	LCS	0.0043855	0.0050676	mg/kg	86.5		60 - 140		
Heptachlor	B152432-BS1	LCS	0.0045257	0.0050676	mg/kg	89.3		60 - 140		
TCMX (Surrogate)	B152432-BS1	LCS	0.012268	0.010135	mg/kg	121		20 - 130		
Decachlorobiphenyl (Surrogate)	B152432-BS1	LCS	0.019792	0.020270	mg/kg	97.6		40 - 130		

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Environmental Investigation Services  
 316 Mid Valley Ctr #313  
 Carmel, CA 93923

Reported: 10/28/2022 10:44  
 Project: Soil Samples  
 Project Number: 2226-2 2755 41st Ave  
 Project Manager: Peter Littman

## Organochlorine Pesticides (EPA Method 8081A)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
<b>QC Batch ID: B152432</b>		Used client sample: N									
Aldrin	MS	2224583-01	ND	0.0053859	0.0050336	mg/kg		107		50 - 140	A10
	MSD	2224583-01	ND	0.0067700	0.0050000	mg/kg	22.8	135	30	50 - 140	A10
gamma-BHC (Lindane)	MS	2224583-01	ND	0.0045772	0.0050336	mg/kg		90.9		50 - 140	J,A10
	MSD	2224583-01	ND	0.0044900	0.0050000	mg/kg	1.9	89.8	30	50 - 140	J,A10
<b>4,4'-DDT</b>	MS	<b>2224583-01</b>	<b>ND</b>	<b>0.0079732</b>	<b>0.0050336</b>	<b>mg/kg</b>		<b>158</b>		<b>50 - 140</b>	<b>A10,Q03</b>
	MSD	<b>2224583-01</b>	<b>ND</b>	<b>0.0090433</b>	<b>0.0050000</b>	<b>mg/kg</b>	<b>12.6</b>	<b>181</b>	<b>30</b>	<b>50 - 140</b>	<b>A10,Q03</b>
Dieldrin	MS	2224583-01	ND	0.0051208	0.0050336	mg/kg		102		40 - 140	A10
	MSD	2224583-01	ND	0.0049200	0.0050000	mg/kg	4.0	98.4	30	40 - 140	J,A10
Endrin	MS	2224583-01	ND	0.0041174	0.0050336	mg/kg		81.8		50 - 150	J,A10
	MSD	2224583-01	ND	0.0051733	0.0050000	mg/kg	22.7	103	30	50 - 150	A10
Heptachlor	MS	2224583-01	ND	0.0065268	0.0050336	mg/kg		130		60 - 140	A10
	MSD	2224583-01	ND	0.0052367	0.0050000	mg/kg	21.9	105	30	60 - 140	A10
TCMX (Surrogate)	MS	2224583-01	ND	0.0090973	0.010067	mg/kg		90.4		20 - 130	A10
	MSD	2224583-01	ND	0.0089333	0.010000	mg/kg	1.8	89.3		20 - 130	A10
Decachlorobiphenyl (Surrogate)	MS	2224583-01	ND	0.022436	0.020134	mg/kg		111		40 - 130	A10
	MSD	2224583-01	ND	0.019143	0.020000	mg/kg	15.8	95.7		40 - 130	A10

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Environmental Investigation Services  
316 Mid Valley Ctr #313  
Carmel, CA 93923

**Reported:** 10/28/2022 10:44  
**Project:** Soil Samples  
**Project Number:** 2226-2 2755 41st Ave  
**Project Manager:** Peter Littman

### Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A10 Detection and quantitation limits were raised due to matrix interference.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S09 The surrogate recovery for this compound was not within the control limits.

# **APPENDIX E**

## **SOIL VAPOR ANALYTICAL REPORT**



Enthalpy Analytical  
931 West Barkley Ave  
Orange, CA 92868  
(714) 771-6900

enthalpy.com

Lab Job Number: 471103  
Report Level: II  
Report Date: 10/28/2022

**Analytical Report** *prepared for:*

Peter Willits  
Environmental Investigation Services  
316 Mid Valley Center #313  
Carmel, CA 93923

Project: 2226-2 - 2755 41st Ave, Soquel, CA

*Authorized for release by:*

Miguel Gamboa, Project Coordinator  
[miguel.gamboa@enthalpy.com](mailto:miguel.gamboa@enthalpy.com)

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

## Sample Summary

Peter Willits Environmental Investigation Services 316 Mid Valley Center #313 Carmel, CA 93923	Lab Job #: 471103 Project No: 2226-2 Location: 2755 41st Ave, Soquel, CA Date Received: 10/19/22
---	---

Sample ID	Lab ID	Collected	Matrix
SV-1A	471103-001	10/18/22 11:14	Air
SV-1B	471103-002	10/18/22 10:56	Air
SV-1C	471103-003	10/18/22 11:06	Air
SV-2A	471103-004	10/18/22 10:24	Air
SV-2B	471103-005	10/18/22 10:34	Air
SV-2C	471103-006	10/18/22 10:45	Air
SV-4A	471103-007	10/18/22 09:34	Air
SV-4B	471103-008	10/18/22 09:46	Air
SV-4C	471103-009	10/18/22 10:00	Air
SV-5A	471103-010	10/18/22 11:32	Air
SV-5B	471103-011	10/18/22 11:41	Air
SV-5C	471103-012	10/18/22 11:56	Air
SV-6A	471103-013	10/18/22 12:15	Air
SV-6B	471103-014	10/18/22 12:24	Air
SV-6C	471103-015	10/18/22 12:35	Air

## Case Narrative

---

Environmental Investigation Services  
316 Mid Valley Center #313  
Carmel, CA 93923  
Peter Willits

Lab Job Number: 471103  
Project No: 2226-2  
Location: 2755 41st Ave, Soquel, CA  
Date Received: 10/19/22

---

This data package contains sample and QC results for fifteen air samples, requested for the above referenced project on 10/19/22. The samples were received intact.

### **Volatile Organics in Air by MS (EPA TO-15):**

- High response was observed for bromoform in the ICV analyzed 10/25/22 01:16; affected data was qualified with "b".
- No other analytical problems were encountered.

### **Volatile Organics in Air GC - TO3 (EPA TO-3M):**

No analytical problems were encountered.

# ENTHALPY ANALYTICAL

Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

## Air Chain of Custody Record

Lab No: 471103

Page: 1 of 2

## Turn Around Time (rush by advanced notice only)

Standard: A

5 Day: 3 Day: 1 Day: Custom TAT:

### CUSTOMER INFORMATION

Company: Environmental Investigation Services

Report To: PETER WILLETS

Email: P. Willets @ eis1.net

Address: 316 MID VALLEY CENTER #313 CARMEL, CA, 93923

Phone: 408-596-0721

Fax:

### PROJECT INFORMATION

Name: 2755 41st AVE, SARASOTA, CA

Number: 2-226-2

P.O. #:

Address: 2755 41st AVE, SARASOTA, CA

Global ID:

Sampled By: PETER WILLETS, LORAN TALLEY-MAH

Special Instructions:

Analysis Requested

Sample ID	Source (I) Indoor (A) Ambient (SV) Soil Vapor	Equipment Information		Sampling Information			Vacuum End ("Hg)	Sample End Time	Vacuum Start ("Hg)	Sample End Date	Sample Start Time	Sample End Time	Date / Time
		Canister ID	Size (6L or 1L)	Flow Controller ID	Sample Start Date	Sample Start Time							
1 SV-1A	SV	648	1L	433	10/19/22	11:07	28	10/18/22	11:14	5	X	X	10/19/22 13:20
2 SV-1B		227		144		10:50	26		10:56	4	X	X	10/19/22 13:20
3 SV-1C		058		398		10:58	30		11:06	5	X	X	10/19/22 16:08
4 SV-2A		217		353		10:15	30		10:24	5	X	X	10/19/22 16:08
5 SV-2B		402		450		10:26	28		10:34	5	X	X	10/19/22 16:08
6 SV-2C		350		558		10:36	30		10:45	5	X	X	10/19/22 16:08
7 SV-4A		008		151		09:26	26		09:34	4	X	X	10/19/22 16:08
8 SV-4B		175		374		09:37	27		09:46	5	X	X	10/19/22 16:08
9 SV-4C		059		296		09:51	28		10:00	5	X	X	10/19/22 16:08
10 SV-5A		304		167		11:25	27		11:32	5	X	X	10/19/22 16:08

Signature	Print Name	Company / Title	Date / Time
<i>Peter Willets</i>	Peter Willets	EIS Inc.	10/19/22 13:20
<i>Audrey Hudson</i>	Audrey Hudson	ENTHALPY	10/19/22 13:20
<i>Audrey Hudson</i>	"	"	10/19/22 16:08
<i>Mace and Up</i>	Mace and Up	BA	10/19/22 16:08
<i>Jack Peterson</i>	Jack Peterson	E.A.	10/19/22 17:06



# ENTHALPY ANALYTICAL

**Enthalpy Analytical - Berkeley**  
 2323 5th Street, Berkeley, CA 94710  
 Phone 510-486-0900

**Air Chain of Custody Record**  
 Lab No: **47603**  
 Page: **2** of **2**

**Turn Around Time (rush by advanced notice only)**  
 Standard:  5 Day:  3 Day:   
 1 Day:  Custom TAT:

**CUSTOMER INFORMATION**  
 Company: **ENVIRONMENTAL INVESTIGATIONS**  
 Report To: **PETER WILLETS**  
 Email: **P.Willets@eis1.net**  
 Address: **316 Mid Valley Center #313, Carmel, CA, 93923**  
 Phone: **408-596-0721**  
 Fax:

**PROJECT INFORMATION**  
 Name: **2755 41st AVE, SOQUEL, CA**  
 Number: **2226-2**  
 P.O.#:  
 Address: **2755 41st AVE, SOQUEL, CA**  
 Global ID: **NA**  
 Sampled By: **PETER WILLETS, LOREN TOLLEN**

Special Instructions:

Sample ID	Source (I) Indoor (A) Ambient (SV) Soil Vapor	Equipment Information		Sampling Information			Vacuum End ("Hg)	Analysis Requested	
		Canister ID	Size (6L or 1L)	Flow Controller ID	Sample Start Date	Sample Start Time			Sample End Date
1 <del>SV-5A</del> SV-5B	SV	172	1L	272	10/18/22	11:34	28	10/18/22 11:41	X
2 <del>SV-5B</del> SV-5C		216		377		11:44	30	11:56	X
3 <del>SV-5C</del> SV-6A		211		262		12:07	30	12:15	X
4 SV-6B		276		123		12:17	28	12:24	X
5 SV-6C		176		437		12:28	28	12:35	X
6									
7									
8									
9									
10									

Relinquished By:	Signature	Print Name	Company / Title	Date / Time
1		PETER WILLETS	EIS Inc.	10/19/22 13:20
2		AUDREY HUDSON	EWT Analytical	10/19/22 13:20
3		Audrey Hudson		10/19/22 16:08
4		Jack Peterson	BAE	10/19/22 16:08
5		Jack Peterson	E.A. En	10/19/22 17:06



# ENTHALPY ANALYTICAL

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Environmental Investigation Services Project: 2755 41st Ave, Soquel, CA  
 Date Received: 10/21/22 Sampler's Name Present:  Yes  No

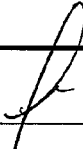
**Section 2**  
 Sample(s) received in a cooler?  Yes, How many? \_\_\_\_\_  No (skip section 2) Sample Temp (°C) Ambient  
 (No Cooler) \_\_\_\_\_  
 Sample Temp (°C), One from each cooler: #1: \_\_\_\_\_ #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_  
*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*  
 Shipping Information: GLS NPS# 557998878

**Section 3**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler Temp (°C): #1: \_\_\_\_\_ #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

**Section 5 Explanations/Comments**  
 \_\_\_\_\_  
 \_\_\_\_\_

**Section 6**  
 For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_  
 Project Manager's response:  
 \_\_\_\_\_

Completed By:  Date: 10/21/22



800-322-5555  
www.gls-us.com

**Ship From**  
ENTHALPY ANALYTICAL  
BERKELEY SERVICE CENTER  
2323 5TH STREET  
BERKELEY, CA 94710

**Tracking #: 557998878**

**NPS**

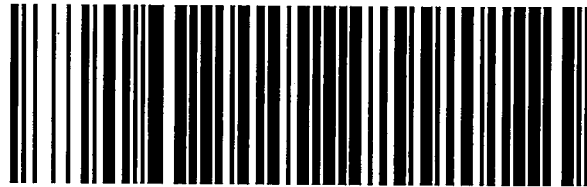


**Ship To**  
ENTHALPY ANALYTICAL (ORG)  
SAMPLE RECEIVING  
931 W BARKLEY AVE.  
ORANGE, CA 92868

**ORANGE**

**S10003H**

**COD:** \$0.00  
**Weight:** 0 lb(s)  
**Reference:**



73575689

**Delivery Instructions:**

**Signature Type:** STANDARD

**ORC CA927-EH0**

Print Date: 10/17/2022 11:26 AM

Package 11 of 20

**LABEL INSTRUCTIONS:**

**Do not copy or reprint this label for additional shipments - each package must have a unique barcode.**

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

**TERMS AND CONDITIONS:**

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at [www.gls-us.com](http://www.gls-us.com).

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-1A

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-001

**Sampled:** 10/18/22 11:14

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 00:20

471103-001 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.44</b>	0.40	ppbv	<b>2.2</b>	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
<b>Acetone</b>	<b>3.2</b>	2.0	ppbv	<b>7.6</b>	4.8	ug/m3
<b>Carbon Disulfide</b>	<b>3.9</b>	0.40	ppbv	<b>12</b>	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
<b>n-Hexane</b>	<b>0.47</b>	0.40	ppbv	<b>1.7</b>	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>1.3</b>	0.40	ppbv	<b>6.2</b>	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
<b>Benzene</b>	<b>1.7</b>	0.40	ppbv	<b>5.5</b>	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>0.64</b>	0.40	ppbv	<b>2.4</b>	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-001 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3
471103-001 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			102	60-140		ug/m3

## Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-1B

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-002

**Sampled:** 10/18/22 10:56

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 01:11

471103-002 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.43</b>	0.40	ppbv	<b>2.1</b>	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
<b>Acetone</b>	<b>3.1</b>	2.0	ppbv	<b>7.4</b>	4.8	ug/m3
<b>Carbon Disulfide</b>	<b>3.9</b>	0.40	ppbv	<b>12</b>	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>0.58</b>	0.40	ppbv	<b>2.8</b>	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
<b>Benzene</b>	<b>0.64</b>	0.40	ppbv	<b>2.0</b>	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>0.77</b>	0.40	ppbv	<b>2.9</b>	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
<b>Tetrachloroethene</b>	<b>0.54</b>	0.40	ppbv	<b>3.6</b>	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-002 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

471103-002 Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	103	60-140	ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-1C

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-003

**Sampled:** 10/18/22 11:06

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 14:41

471103-003 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.42</b>	<b>0.40</b>	<b>ppbv</b>	<b>2.1</b>	<b>2.0</b>	<b>ug/m3</b>
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
<b>Acetone</b>	<b>10</b>	<b>2.0</b>	<b>ppbv</b>	<b>24</b>	<b>4.8</b>	<b>ug/m3</b>
<b>Carbon Disulfide</b>	<b>3.0</b>	<b>0.40</b>	<b>ppbv</b>	<b>9.3</b>	<b>1.2</b>	<b>ug/m3</b>
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
<b>Benzene</b>	<b>2.2</b>	<b>0.40</b>	<b>ppbv</b>	<b>7.2</b>	<b>1.3</b>	<b>ug/m3</b>
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>3.2</b>	<b>0.40</b>	<b>ppbv</b>	<b>12</b>	<b>1.5</b>	<b>ug/m3</b>
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3



## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-003 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
<b>m,p-Xylenes</b>	<b>0.83</b>	0.80	ppbv	<b>3.6</b>	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
<b>Xylene (total)</b>	<b>0.83</b>	0.40	ppbv	<b>3.6</b>	1.7	ug/m3

471103-003 Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	102	60-140	ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-2A

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-004

**Sampled:** 10/18/22 10:24

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 1.800

**Analyzed:** 10/26/22 15:42

471103-004 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	1.8	ppbv	ND	4.9	ug/m3
Naphthalene	ND	1.8	ppbv	ND	9.4	ug/m3
<b>Freon 12</b>	<b>0.44</b>	<b>0.36</b>	ppbv	<b>2.2</b>	<b>1.8</b>	ug/m3
Freon 114	ND	0.36	ppbv	ND	2.5	ug/m3
Chloromethane	ND	0.36	ppbv	ND	0.74	ug/m3
Vinyl Chloride	ND	0.36	ppbv	ND	0.92	ug/m3
Bromomethane	ND	0.36	ppbv	ND	1.4	ug/m3
Chloroethane	ND	0.36	ppbv	ND	0.95	ug/m3
Trichlorofluoromethane	ND	0.36	ppbv	ND	2.0	ug/m3
1,1-Dichloroethene	ND	0.36	ppbv	ND	1.4	ug/m3
Freon 113	ND	0.36	ppbv	ND	2.8	ug/m3
Acetone	ND	1.8	ppbv	ND	4.3	ug/m3
<b>Carbon Disulfide</b>	<b>12</b>	<b>0.36</b>	ppbv	<b>38</b>	<b>1.1</b>	ug/m3
Isopropanol (IPA)	ND	1.8	ppbv	ND	4.4	ug/m3
Methylene Chloride	ND	0.36	ppbv	ND	1.3	ug/m3
trans-1,2-Dichloroethene	ND	0.36	ppbv	ND	1.4	ug/m3
MTBE	ND	0.36	ppbv	ND	1.3	ug/m3
<b>n-Hexane</b>	<b>0.36</b>	<b>0.36</b>	ppbv	<b>1.3</b>	<b>1.3</b>	ug/m3
1,1-Dichloroethane	ND	0.36	ppbv	ND	1.5	ug/m3
Vinyl Acetate	ND	1.8	ppbv	ND	6.3	ug/m3
cis-1,2-Dichloroethene	ND	0.36	ppbv	ND	1.4	ug/m3
2-Butanone	ND	1.8	ppbv	ND	5.3	ug/m3
<b>Chloroform</b>	<b>1.2</b>	<b>0.36</b>	ppbv	<b>6.1</b>	<b>1.8</b>	ug/m3
1,1,1-Trichloroethane	ND	0.36	ppbv	ND	2.0	ug/m3
Carbon Tetrachloride	ND	0.36	ppbv	ND	2.3	ug/m3
<b>Benzene</b>	<b>0.74</b>	<b>0.36</b>	ppbv	<b>2.4</b>	<b>1.2</b>	ug/m3
1,2-Dichloroethane	ND	0.36	ppbv	ND	1.5	ug/m3
Trichloroethene	ND	0.36	ppbv	ND	1.9	ug/m3
1,2-Dichloropropane	ND	0.36	ppbv	ND	1.7	ug/m3
Bromodichloromethane	ND	0.36	ppbv	ND	2.4	ug/m3
cis-1,3-Dichloropropene	ND	0.36	ppbv	ND	1.6	ug/m3
4-Methyl-2-Pentanone	ND	0.36	ppbv	ND	1.5	ug/m3
Toluene	ND	0.36	ppbv	ND	1.4	ug/m3
trans-1,3-Dichloropropene	ND	0.36	ppbv	ND	1.6	ug/m3
1,1,2-Trichloroethane	ND	0.36	ppbv	ND	2.0	ug/m3
<b>Tetrachloroethene</b>	<b>0.94</b>	<b>0.36</b>	ppbv	<b>6.4</b>	<b>2.4</b>	ug/m3
2-Hexanone	ND	0.90	ppbv	ND	3.7	ug/m3
Dibromochloromethane	ND	0.36	ppbv	ND	3.1	ug/m3
1,2-Dibromoethane	ND	0.36	ppbv	ND	2.8	ug/m3
Chlorobenzene	ND	0.36	ppbv	ND	1.7	ug/m3
Ethylbenzene	ND	0.36	ppbv	ND	1.6	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-004 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.72	ppbv	ND	3.1	ug/m3
o-Xylene	ND	0.36	ppbv	ND	1.6	ug/m3
Styrene	ND	0.36	ppbv	ND	1.5	ug/m3
Bromoform	ND	0.36	ppbv	ND	3.7	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.36	ppbv	ND	2.5	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.36	ppbv	ND	2.5	ug/m3
4-Ethyltoluene	ND	0.36	ppbv	ND	1.8	ug/m3
1,3,5-Trimethylbenzene	ND	0.36	ppbv	ND	1.8	ug/m3
1,2,4-Trimethylbenzene	ND	0.36	ppbv	ND	1.8	ug/m3
1,3-Dichlorobenzene	ND	0.36	ppbv	ND	2.2	ug/m3
1,4-Dichlorobenzene	ND	0.36	ppbv	ND	2.2	ug/m3
Benzyl chloride	ND	0.36	ppbv	ND	1.9	ug/m3
1,2-Dichlorobenzene	ND	0.36	ppbv	ND	2.2	ug/m3
1,2,4-Trichlorobenzene	ND	0.36	ppbv	ND	2.7	ug/m3
Hexachlorobutadiene	ND	0.36	ppbv	ND	3.8	ug/m3
Xylene (total)	ND	0.36	ppbv	ND	1.6	ug/m3
471103-004 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			103	60-140		ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-2B

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-005

**Sampled:** 10/18/22 10:34

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 03:42

471103-005 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.89</b>	<b>0.40</b>	<b>ppbv</b>	<b>4.4</b>	<b>2.0</b>	<b>ug/m3</b>
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
Carbon Disulfide	ND	0.40	ppbv	ND	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
<b>n-Hexane</b>	<b>1.6</b>	<b>0.40</b>	<b>ppbv</b>	<b>5.5</b>	<b>1.4</b>	<b>ug/m3</b>
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
Benzene	ND	0.40	ppbv	ND	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
<b>Tetrachloroethene</b>	<b>4.4</b>	<b>0.40</b>	<b>ppbv</b>	<b>30</b>	<b>2.7</b>	<b>ug/m3</b>
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-005 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

471103-005 Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	103	60-140	ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-2C

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-006

**Sampled:** 10/18/22 10:45

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 1.700

**Analyzed:** 10/26/22 04:33

471103-006 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	1.7	ppbv	ND	4.6	ug/m3
Naphthalene	ND	1.7	ppbv	ND	8.9	ug/m3
<b>Freon 12</b>	<b>0.53</b>	0.34	ppbv	<b>2.6</b>	1.7	ug/m3
Freon 114	ND	0.34	ppbv	ND	2.4	ug/m3
<b>Chloromethane</b>	<b>1.1</b>	0.34	ppbv	<b>2.4</b>	0.70	ug/m3
Vinyl Chloride	ND	0.34	ppbv	ND	0.87	ug/m3
Bromomethane	ND	0.34	ppbv	ND	1.3	ug/m3
Chloroethane	ND	0.34	ppbv	ND	0.90	ug/m3
Trichlorofluoromethane	ND	0.34	ppbv	ND	1.9	ug/m3
1,1-Dichloroethene	ND	0.34	ppbv	ND	1.3	ug/m3
Freon 113	ND	0.34	ppbv	ND	2.6	ug/m3
Acetone	ND	1.7	ppbv	ND	4.0	ug/m3
<b>Carbon Disulfide</b>	<b>33</b>	0.34	ppbv	<b>100</b>	1.1	ug/m3
Isopropanol (IPA)	ND	1.7	ppbv	ND	4.2	ug/m3
Methylene Chloride	ND	0.34	ppbv	ND	1.2	ug/m3
trans-1,2-Dichloroethene	ND	0.34	ppbv	ND	1.3	ug/m3
MTBE	ND	0.34	ppbv	ND	1.2	ug/m3
<b>n-Hexane</b>	<b>1.1</b>	0.34	ppbv	<b>3.8</b>	1.2	ug/m3
1,1-Dichloroethane	ND	0.34	ppbv	ND	1.4	ug/m3
Vinyl Acetate	ND	1.7	ppbv	ND	6.0	ug/m3
cis-1,2-Dichloroethene	ND	0.34	ppbv	ND	1.3	ug/m3
2-Butanone	ND	1.7	ppbv	ND	5.0	ug/m3
<b>Chloroform</b>	<b>4.2</b>	0.34	ppbv	<b>20</b>	1.7	ug/m3
1,1,1-Trichloroethane	ND	0.34	ppbv	ND	1.9	ug/m3
Carbon Tetrachloride	ND	0.34	ppbv	ND	2.1	ug/m3
<b>Benzene</b>	<b>3.9</b>	0.34	ppbv	<b>12</b>	1.1	ug/m3
1,2-Dichloroethane	ND	0.34	ppbv	ND	1.4	ug/m3
Trichloroethene	ND	0.34	ppbv	ND	1.8	ug/m3
1,2-Dichloropropane	ND	0.34	ppbv	ND	1.6	ug/m3
Bromodichloromethane	ND	0.34	ppbv	ND	2.3	ug/m3
cis-1,3-Dichloropropene	ND	0.34	ppbv	ND	1.5	ug/m3
4-Methyl-2-Pentanone	ND	0.34	ppbv	ND	1.4	ug/m3
<b>Toluene</b>	<b>1.3</b>	0.34	ppbv	<b>4.7</b>	1.3	ug/m3
trans-1,3-Dichloropropene	ND	0.34	ppbv	ND	1.5	ug/m3
1,1,2-Trichloroethane	ND	0.34	ppbv	ND	1.9	ug/m3
<b>Tetrachloroethene</b>	<b>1.3</b>	0.34	ppbv	<b>8.8</b>	2.3	ug/m3
2-Hexanone	ND	0.85	ppbv	ND	3.5	ug/m3
Dibromochloromethane	ND	0.34	ppbv	ND	2.9	ug/m3
1,2-Dibromoethane	ND	0.34	ppbv	ND	2.6	ug/m3
Chlorobenzene	ND	0.34	ppbv	ND	1.6	ug/m3
Ethylbenzene	ND	0.34	ppbv	ND	1.5	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-006 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.68	ppbv	ND	3.0	ug/m3
o-Xylene	ND	0.34	ppbv	ND	1.5	ug/m3
Styrene	ND	0.34	ppbv	ND	1.4	ug/m3
Bromoform	ND	0.34	ppbv	ND	3.5	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.34	ppbv	ND	2.3	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.34	ppbv	ND	2.3	ug/m3
4-Ethyltoluene	ND	0.34	ppbv	ND	1.7	ug/m3
1,3,5-Trimethylbenzene	ND	0.34	ppbv	ND	1.7	ug/m3
1,2,4-Trimethylbenzene	ND	0.34	ppbv	ND	1.7	ug/m3
1,3-Dichlorobenzene	ND	0.34	ppbv	ND	2.0	ug/m3
1,4-Dichlorobenzene	ND	0.34	ppbv	ND	2.0	ug/m3
Benzyl chloride	ND	0.34	ppbv	ND	1.8	ug/m3
1,2-Dichlorobenzene	ND	0.34	ppbv	ND	2.0	ug/m3
1,2,4-Trichlorobenzene	ND	0.34	ppbv	ND	2.5	ug/m3
Hexachlorobutadiene	ND	0.34	ppbv	ND	3.6	ug/m3
Xylene (total)	ND	0.34	ppbv	ND	1.5	ug/m3
471103-006 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			102	60-140		ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-4A

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-007

**Sampled:** 10/18/22 09:34

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 05:24

471103-007 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.48</b>	0.40	ppbv	<b>2.4</b>	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Freon 113</b>	<b>1.3</b>	0.40	ppbv	<b>9.8</b>	3.1	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
<b>Carbon Disulfide</b>	<b>3.5</b>	0.40	ppbv	<b>11</b>	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>1.4</b>	0.40	ppbv	<b>7.0</b>	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
<b>Benzene</b>	<b>0.70</b>	0.40	ppbv	<b>2.2</b>	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
Toluene	ND	0.40	ppbv	ND	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3



## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-007 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3
471103-007 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			103	60-140		ug/m3

## Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-4B

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-008

**Sampled:** 10/18/22 09:46

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 06:16

471103-008 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.56</b>	0.40	ppbv	<b>2.8</b>	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
<b>Carbon Disulfide</b>	<b>13</b>	0.40	ppbv	<b>41</b>	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
<b>n-Hexane</b>	<b>1.7</b>	0.40	ppbv	<b>5.9</b>	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>1.4</b>	0.40	ppbv	<b>6.7</b>	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
<b>Benzene</b>	<b>5.6</b>	0.40	ppbv	<b>18</b>	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>3.9</b>	0.40	ppbv	<b>15</b>	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
<b>Ethylbenzene</b>	<b>0.87</b>	0.40	ppbv	<b>3.8</b>	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-008 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
<b>m,p-Xylenes</b>	<b>1.3</b>	0.80	ppbv	<b>5.6</b>	3.5	ug/m3
<b>o-Xylene</b>	<b>0.51</b>	0.40	ppbv	<b>2.2</b>	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
<b>Xylene (total)</b>	<b>1.8</b>	0.40	ppbv	<b>7.8</b>	1.7	ug/m3

471103-008 Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	102	60-140	ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-4C

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-009

**Sampled:** 10/18/22 10:00

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 1.800

**Analyzed:** 10/26/22 07:07

471103-009 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	1.8	ppbv	ND	4.9	ug/m3
Naphthalene	ND	1.8	ppbv	ND	9.4	ug/m3
<b>Freon 12</b>	<b>0.44</b>	<b>0.36</b>	<b>ppbv</b>	<b>2.2</b>	<b>1.8</b>	<b>ug/m3</b>
Freon 114	ND	0.36	ppbv	ND	2.5	ug/m3
Chloromethane	ND	0.36	ppbv	ND	0.74	ug/m3
Vinyl Chloride	ND	0.36	ppbv	ND	0.92	ug/m3
Bromomethane	ND	0.36	ppbv	ND	1.4	ug/m3
Chloroethane	ND	0.36	ppbv	ND	0.95	ug/m3
Trichlorofluoromethane	ND	0.36	ppbv	ND	2.0	ug/m3
1,1-Dichloroethene	ND	0.36	ppbv	ND	1.4	ug/m3
Freon 113	ND	0.36	ppbv	ND	2.8	ug/m3
Acetone	ND	1.8	ppbv	ND	4.3	ug/m3
<b>Carbon Disulfide</b>	<b>0.46</b>	<b>0.36</b>	<b>ppbv</b>	<b>1.4</b>	<b>1.1</b>	<b>ug/m3</b>
Isopropanol (IPA)	ND	1.8	ppbv	ND	4.4	ug/m3
Methylene Chloride	ND	0.36	ppbv	ND	1.3	ug/m3
trans-1,2-Dichloroethene	ND	0.36	ppbv	ND	1.4	ug/m3
MTBE	ND	0.36	ppbv	ND	1.3	ug/m3
n-Hexane	ND	0.36	ppbv	ND	1.3	ug/m3
1,1-Dichloroethane	ND	0.36	ppbv	ND	1.5	ug/m3
Vinyl Acetate	ND	1.8	ppbv	ND	6.3	ug/m3
cis-1,2-Dichloroethene	ND	0.36	ppbv	ND	1.4	ug/m3
2-Butanone	ND	1.8	ppbv	ND	5.3	ug/m3
<b>Chloroform</b>	<b>2.4</b>	<b>0.36</b>	<b>ppbv</b>	<b>12</b>	<b>1.8</b>	<b>ug/m3</b>
1,1,1-Trichloroethane	ND	0.36	ppbv	ND	2.0	ug/m3
Carbon Tetrachloride	ND	0.36	ppbv	ND	2.3	ug/m3
Benzene	ND	0.36	ppbv	ND	1.2	ug/m3
1,2-Dichloroethane	ND	0.36	ppbv	ND	1.5	ug/m3
Trichloroethene	ND	0.36	ppbv	ND	1.9	ug/m3
1,2-Dichloropropane	ND	0.36	ppbv	ND	1.7	ug/m3
Bromodichloromethane	ND	0.36	ppbv	ND	2.4	ug/m3
cis-1,3-Dichloropropene	ND	0.36	ppbv	ND	1.6	ug/m3
4-Methyl-2-Pentanone	ND	0.36	ppbv	ND	1.5	ug/m3
Toluene	ND	0.36	ppbv	ND	1.4	ug/m3
trans-1,3-Dichloropropene	ND	0.36	ppbv	ND	1.6	ug/m3
1,1,2-Trichloroethane	ND	0.36	ppbv	ND	2.0	ug/m3
Tetrachloroethene	ND	0.36	ppbv	ND	2.4	ug/m3
2-Hexanone	ND	0.90	ppbv	ND	3.7	ug/m3
Dibromochloromethane	ND	0.36	ppbv	ND	3.1	ug/m3
1,2-Dibromoethane	ND	0.36	ppbv	ND	2.8	ug/m3
Chlorobenzene	ND	0.36	ppbv	ND	1.7	ug/m3
Ethylbenzene	ND	0.36	ppbv	ND	1.6	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-009 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.72	ppbv	ND	3.1	ug/m3
o-Xylene	ND	0.36	ppbv	ND	1.6	ug/m3
Styrene	ND	0.36	ppbv	ND	1.5	ug/m3
Bromoform	ND	0.36	ppbv	ND	3.7	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.36	ppbv	ND	2.5	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.36	ppbv	ND	2.5	ug/m3
4-Ethyltoluene	ND	0.36	ppbv	ND	1.8	ug/m3
1,3,5-Trimethylbenzene	ND	0.36	ppbv	ND	1.8	ug/m3
1,2,4-Trimethylbenzene	ND	0.36	ppbv	ND	1.8	ug/m3
1,3-Dichlorobenzene	ND	0.36	ppbv	ND	2.2	ug/m3
1,4-Dichlorobenzene	ND	0.36	ppbv	ND	2.2	ug/m3
Benzyl chloride	ND	0.36	ppbv	ND	1.9	ug/m3
1,2-Dichlorobenzene	ND	0.36	ppbv	ND	2.2	ug/m3
1,2,4-Trichlorobenzene	ND	0.36	ppbv	ND	2.7	ug/m3
Hexachlorobutadiene	ND	0.36	ppbv	ND	3.8	ug/m3
Xylene (total)	ND	0.36	ppbv	ND	1.6	ug/m3
471103-009 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			104	60-140		ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-5A

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-010

**Sampled:** 10/18/22 11:32

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 07:58

471103-010 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.49</b>	0.40	ppbv	<b>2.4</b>	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
<b>Acetone</b>	<b>2.3</b>	2.0	ppbv	<b>5.5</b>	4.8	ug/m3
<b>Carbon Disulfide</b>	<b>69</b>	0.40	ppbv	<b>220</b>	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
n-Hexane	ND	0.40	ppbv	ND	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>9.4</b>	0.40	ppbv	<b>46</b>	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
<b>Benzene</b>	<b>4.5</b>	0.40	ppbv	<b>14</b>	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>2.2</b>	0.40	ppbv	<b>8.1</b>	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
<b>Ethylbenzene</b>	<b>0.44</b>	0.40	ppbv	<b>1.9</b>	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-010 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3
471103-010 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			101	60-140		ug/m3

## Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-5B

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-011

**Sampled:** 10/18/22 11:41

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 08:50

471103-011 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>0.51</b>	0.40	ppbv	<b>2.5</b>	2.0	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
<b>Chloromethane</b>	<b>0.45</b>	0.40	ppbv	<b>0.93</b>	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
<b>Acetone</b>	<b>4.4</b>	2.0	ppbv	<b>10</b>	4.8	ug/m3
<b>Carbon Disulfide</b>	<b>12</b>	0.40	ppbv	<b>37</b>	1.2	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
<b>n-Hexane</b>	<b>0.69</b>	0.40	ppbv	<b>2.4</b>	1.4	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>0.48</b>	0.40	ppbv	<b>2.3</b>	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Carbon Tetrachloride	ND	0.40	ppbv	ND	2.5	ug/m3
<b>Benzene</b>	<b>3.8</b>	0.40	ppbv	<b>12</b>	1.3	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>1.4</b>	0.40	ppbv	<b>5.3</b>	1.5	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3



## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-011 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3
471103-011 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			102	60-140		ug/m3

## Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-5C

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-012

**Sampled:** 10/18/22 11:56

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 1.600

**Analyzed:** 10/26/22 09:41

471103-012 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	1.6	ppbv	ND	4.3	ug/m3
Naphthalene	ND	1.6	ppbv	ND	8.4	ug/m3
<b>Freon 12</b>	<b>0.54</b>	0.32	ppbv	<b>2.7</b>	1.6	ug/m3
Freon 114	ND	0.32	ppbv	ND	2.2	ug/m3
Chloromethane	ND	0.32	ppbv	ND	0.66	ug/m3
Vinyl Chloride	ND	0.32	ppbv	ND	0.82	ug/m3
Bromomethane	ND	0.32	ppbv	ND	1.2	ug/m3
Chloroethane	ND	0.32	ppbv	ND	0.84	ug/m3
Trichlorofluoromethane	ND	0.32	ppbv	ND	1.8	ug/m3
1,1-Dichloroethene	ND	0.32	ppbv	ND	1.3	ug/m3
Freon 113	ND	0.32	ppbv	ND	2.5	ug/m3
Acetone	ND	1.6	ppbv	ND	3.8	ug/m3
<b>Carbon Disulfide</b>	<b>10</b>	0.32	ppbv	<b>31</b>	1.0	ug/m3
Isopropanol (IPA)	ND	1.6	ppbv	ND	3.9	ug/m3
Methylene Chloride	ND	0.32	ppbv	ND	1.1	ug/m3
trans-1,2-Dichloroethene	ND	0.32	ppbv	ND	1.3	ug/m3
MTBE	ND	0.32	ppbv	ND	1.2	ug/m3
<b>n-Hexane</b>	<b>1.3</b>	0.32	ppbv	<b>4.5</b>	1.1	ug/m3
1,1-Dichloroethane	ND	0.32	ppbv	ND	1.3	ug/m3
Vinyl Acetate	ND	1.6	ppbv	ND	5.6	ug/m3
cis-1,2-Dichloroethene	ND	0.32	ppbv	ND	1.3	ug/m3
2-Butanone	ND	1.6	ppbv	ND	4.7	ug/m3
<b>Chloroform</b>	<b>0.82</b>	0.32	ppbv	<b>4.0</b>	1.6	ug/m3
1,1,1-Trichloroethane	ND	0.32	ppbv	ND	1.7	ug/m3
Carbon Tetrachloride	ND	0.32	ppbv	ND	2.0	ug/m3
<b>Benzene</b>	<b>8.0</b>	0.32	ppbv	<b>25</b>	1.0	ug/m3
1,2-Dichloroethane	ND	0.32	ppbv	ND	1.3	ug/m3
Trichloroethene	ND	0.32	ppbv	ND	1.7	ug/m3
1,2-Dichloropropane	ND	0.32	ppbv	ND	1.5	ug/m3
Bromodichloromethane	ND	0.32	ppbv	ND	2.1	ug/m3
cis-1,3-Dichloropropene	ND	0.32	ppbv	ND	1.5	ug/m3
4-Methyl-2-Pentanone	ND	0.32	ppbv	ND	1.3	ug/m3
<b>Toluene</b>	<b>2.8</b>	0.32	ppbv	<b>10</b>	1.2	ug/m3
trans-1,3-Dichloropropene	ND	0.32	ppbv	ND	1.5	ug/m3
1,1,2-Trichloroethane	ND	0.32	ppbv	ND	1.7	ug/m3
Tetrachloroethene	ND	0.32	ppbv	ND	2.2	ug/m3
2-Hexanone	ND	0.80	ppbv	ND	3.3	ug/m3
Dibromochloromethane	ND	0.32	ppbv	ND	2.7	ug/m3
1,2-Dibromoethane	ND	0.32	ppbv	ND	2.5	ug/m3
Chlorobenzene	ND	0.32	ppbv	ND	1.5	ug/m3
<b>Ethylbenzene</b>	<b>0.67</b>	0.32	ppbv	<b>2.9</b>	1.4	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-012 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.64	ppbv	ND	2.8	ug/m3
o-Xylene	ND	0.32	ppbv	ND	1.4	ug/m3
Styrene	ND	0.32	ppbv	ND	1.4	ug/m3
Bromoform	ND	0.32	ppbv	ND	3.3	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.32	ppbv	ND	2.2	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.32	ppbv	ND	2.2	ug/m3
4-Ethyltoluene	ND	0.32	ppbv	ND	1.6	ug/m3
1,3,5-Trimethylbenzene	ND	0.32	ppbv	ND	1.6	ug/m3
1,2,4-Trimethylbenzene	ND	0.32	ppbv	ND	1.6	ug/m3
1,3-Dichlorobenzene	ND	0.32	ppbv	ND	1.9	ug/m3
1,4-Dichlorobenzene	ND	0.32	ppbv	ND	1.9	ug/m3
Benzyl chloride	ND	0.32	ppbv	ND	1.7	ug/m3
1,2-Dichlorobenzene	ND	0.32	ppbv	ND	1.9	ug/m3
1,2,4-Trichlorobenzene	ND	0.32	ppbv	ND	2.4	ug/m3
Hexachlorobutadiene	ND	0.32	ppbv	ND	3.4	ug/m3
Xylene (total)	ND	0.32	ppbv	ND	1.4	ug/m3
471103-012 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			102	60-140		ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-6A

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-013

**Sampled:** 10/18/22 12:15

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 10:28

471103-013 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>1.3</b>	<b>0.40</b>	ppbv	<b>6.3</b>	<b>2.0</b>	ug/m3
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
Acetone	ND	2.0	ppbv	ND	4.8	ug/m3
<b>Carbon Disulfide</b>	<b>6.8</b>	<b>0.40</b>	ppbv	<b>21</b>	<b>1.2</b>	ug/m3
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
<b>Methylene Chloride</b>	<b>0.49</b>	<b>0.40</b>	ppbv	<b>1.7</b>	<b>1.4</b>	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
<b>n-Hexane</b>	<b>1.3</b>	<b>0.40</b>	ppbv	<b>4.6</b>	<b>1.4</b>	ug/m3
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>3.3</b>	<b>0.40</b>	ppbv	<b>16</b>	<b>2.0</b>	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
<b>Carbon Tetrachloride</b>	<b>1.5</b>	<b>0.40</b>	ppbv	<b>9.7</b>	<b>2.5</b>	ug/m3
<b>Benzene</b>	<b>2.3</b>	<b>0.40</b>	ppbv	<b>7.2</b>	<b>1.3</b>	ug/m3
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>1.0</b>	<b>0.40</b>	ppbv	<b>3.8</b>	<b>1.5</b>	ug/m3
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-013 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3

471103-013 Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	101	60-140	ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-6B

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-014

**Sampled:** 10/18/22 12:24

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 11:19

471103-014 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>1.6</b>	<b>0.40</b>	<b>ppbv</b>	<b>8.2</b>	<b>2.0</b>	<b>ug/m3</b>
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
<b>Acetone</b>	<b>3.4</b>	<b>2.0</b>	<b>ppbv</b>	<b>8.0</b>	<b>4.8</b>	<b>ug/m3</b>
<b>Carbon Disulfide</b>	<b>5.5</b>	<b>0.40</b>	<b>ppbv</b>	<b>17</b>	<b>1.2</b>	<b>ug/m3</b>
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
<b>n-Hexane</b>	<b>0.48</b>	<b>0.40</b>	<b>ppbv</b>	<b>1.7</b>	<b>1.4</b>	<b>ug/m3</b>
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
<b>Chloroform</b>	<b>1.5</b>	<b>0.40</b>	<b>ppbv</b>	<b>7.2</b>	<b>2.0</b>	<b>ug/m3</b>
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
<b>Carbon Tetrachloride</b>	<b>0.65</b>	<b>0.40</b>	<b>ppbv</b>	<b>4.1</b>	<b>2.5</b>	<b>ug/m3</b>
<b>Benzene</b>	<b>1.4</b>	<b>0.40</b>	<b>ppbv</b>	<b>4.5</b>	<b>1.3</b>	<b>ug/m3</b>
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>0.51</b>	<b>0.40</b>	<b>ppbv</b>	<b>1.9</b>	<b>1.5</b>	<b>ug/m3</b>
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
Ethylbenzene	ND	0.40	ppbv	ND	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-014 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3
471103-014 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			102	60-140		ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Field ID:** SV-6C

**Batch#:** 299622

**Prep:** METHOD

**Lab ID:** 471103-015

**Sampled:** 10/18/22 12:35

**Analysis:** EPA TO-15

**Matrix:** Air

**Received:** 10/19/22

**Analyst:** ZNZ

**Diln Fac:** 2.000

**Analyzed:** 10/26/22 12:07

471103-015 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	2.0	ppbv	ND	5.4	ug/m3
Naphthalene	ND	2.0	ppbv	ND	10	ug/m3
<b>Freon 12</b>	<b>1.1</b>	<b>0.40</b>	<b>ppbv</b>	<b>5.4</b>	<b>2.0</b>	<b>ug/m3</b>
Freon 114	ND	0.40	ppbv	ND	2.8	ug/m3
Chloromethane	ND	0.40	ppbv	ND	0.83	ug/m3
Vinyl Chloride	ND	0.40	ppbv	ND	1.0	ug/m3
Bromomethane	ND	0.40	ppbv	ND	1.6	ug/m3
Chloroethane	ND	0.40	ppbv	ND	1.1	ug/m3
Trichlorofluoromethane	ND	0.40	ppbv	ND	2.2	ug/m3
1,1-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
Freon 113	ND	0.40	ppbv	ND	3.1	ug/m3
<b>Acetone</b>	<b>4.7</b>	<b>2.0</b>	<b>ppbv</b>	<b>11</b>	<b>4.8</b>	<b>ug/m3</b>
<b>Carbon Disulfide</b>	<b>6.5</b>	<b>0.40</b>	<b>ppbv</b>	<b>20</b>	<b>1.2</b>	<b>ug/m3</b>
Isopropanol (IPA)	ND	2.0	ppbv	ND	4.9	ug/m3
Methylene Chloride	ND	0.40	ppbv	ND	1.4	ug/m3
trans-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
MTBE	ND	0.40	ppbv	ND	1.4	ug/m3
<b>n-Hexane</b>	<b>0.56</b>	<b>0.40</b>	<b>ppbv</b>	<b>2.0</b>	<b>1.4</b>	<b>ug/m3</b>
1,1-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Vinyl Acetate	ND	2.0	ppbv	ND	7.0	ug/m3
cis-1,2-Dichloroethene	ND	0.40	ppbv	ND	1.6	ug/m3
2-Butanone	ND	2.0	ppbv	ND	5.9	ug/m3
Chloroform	ND	0.40	ppbv	ND	2.0	ug/m3
1,1,1-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
<b>Carbon Tetrachloride</b>	<b>0.76</b>	<b>0.40</b>	<b>ppbv</b>	<b>4.8</b>	<b>2.5</b>	<b>ug/m3</b>
<b>Benzene</b>	<b>2.6</b>	<b>0.40</b>	<b>ppbv</b>	<b>8.5</b>	<b>1.3</b>	<b>ug/m3</b>
1,2-Dichloroethane	ND	0.40	ppbv	ND	1.6	ug/m3
Trichloroethene	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichloropropane	ND	0.40	ppbv	ND	1.8	ug/m3
Bromodichloromethane	ND	0.40	ppbv	ND	2.7	ug/m3
cis-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
4-Methyl-2-Pentanone	ND	0.40	ppbv	ND	1.6	ug/m3
<b>Toluene</b>	<b>1.2</b>	<b>0.40</b>	<b>ppbv</b>	<b>4.5</b>	<b>1.5</b>	<b>ug/m3</b>
trans-1,3-Dichloropropene	ND	0.40	ppbv	ND	1.8	ug/m3
1,1,2-Trichloroethane	ND	0.40	ppbv	ND	2.2	ug/m3
Tetrachloroethene	ND	0.40	ppbv	ND	2.7	ug/m3
2-Hexanone	ND	1.0	ppbv	ND	4.1	ug/m3
Dibromochloromethane	ND	0.40	ppbv	ND	3.4	ug/m3
1,2-Dibromoethane	ND	0.40	ppbv	ND	3.1	ug/m3
Chlorobenzene	ND	0.40	ppbv	ND	1.8	ug/m3
<b>Ethylbenzene</b>	<b>0.46</b>	<b>0.40</b>	<b>ppbv</b>	<b>2.0</b>	<b>1.7</b>	<b>ug/m3</b>



## Enthalpy Analytical - Orange Analytical Report

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

471103-015 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
m,p-Xylenes	ND	0.80	ppbv	ND	3.5	ug/m3
o-Xylene	ND	0.40	ppbv	ND	1.7	ug/m3
Styrene	ND	0.40	ppbv	ND	1.7	ug/m3
Bromoform	ND	0.40	ppbv	ND	4.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.40	ppbv	ND	2.7	ug/m3
4-Ethyltoluene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3,5-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,2,4-Trimethylbenzene	ND	0.40	ppbv	ND	2.0	ug/m3
1,3-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,4-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
Benzyl chloride	ND	0.40	ppbv	ND	2.1	ug/m3
1,2-Dichlorobenzene	ND	0.40	ppbv	ND	2.4	ug/m3
1,2,4-Trichlorobenzene	ND	0.40	ppbv	ND	3.0	ug/m3
Hexachlorobutadiene	ND	0.40	ppbv	ND	4.3	ug/m3
Xylene (total)	ND	0.40	ppbv	ND	1.7	ug/m3
471103-015 Surrogate			%REC	Limits		Units (M)
Bromofluorobenzene			101	60-140		ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

## Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Type:** BS

**DiIn Fac:** 1.000

**Prep:** METHOD

**Lab ID:** QC1021095

**Batch#:** 299622

**Analysis:** EPA TO-15

**Matrix:** Air

**Analyzed:** 10/25/22 18:31

**Analyst:** ZNZ

QC1021095 Analyte	Spiked	Result (V)	Units (V)	%REC	Limits	Qual
1,1-Difluoroethane	10.00	9.469	ppbv	95	70-130	
Naphthalene	10.00	11.16	ppbv	112	70-130	
Freon 12	10.00	9.523	ppbv	95	70-130	
Freon 114	10.00	10.12	ppbv	101	70-130	
Chloromethane	10.00	9.468	ppbv	95	70-130	
Vinyl Chloride	10.00	9.766	ppbv	98	70-130	
Bromomethane	10.00	10.13	ppbv	101	70-130	
Chloroethane	10.00	9.792	ppbv	98	70-130	
Trichlorofluoromethane	10.00	9.418	ppbv	94	70-130	
1,1-Dichloroethene	10.00	9.430	ppbv	94	70-130	
Freon 113	10.00	9.692	ppbv	97	70-130	
Acetone	10.00	9.832	ppbv	98	70-130	
Carbon Disulfide	10.00	9.702	ppbv	97	70-130	
Isopropanol (IPA)	10.00	9.684	ppbv	97	70-130	
Methylene Chloride	10.00	8.840	ppbv	88	70-130	
trans-1,2-Dichloroethene	10.00	9.562	ppbv	96	70-130	
MTBE	10.00	10.05	ppbv	100	70-130	
n-Hexane	10.00	9.845	ppbv	98	70-130	
1,1-Dichloroethane	10.00	9.478	ppbv	95	70-130	
Vinyl Acetate	10.00	8.578	ppbv	86	70-130	
cis-1,2-Dichloroethene	10.00	9.618	ppbv	96	70-130	
2-Butanone	10.00	9.269	ppbv	93	70-130	
Chloroform	10.00	9.505	ppbv	95	70-130	
1,1,1-Trichloroethane	10.00	9.577	ppbv	96	70-130	
Carbon Tetrachloride	10.00	9.858	ppbv	99	70-130	
Benzene	10.00	9.889	ppbv	99	70-130	
1,2-Dichloroethane	10.00	9.083	ppbv	91	70-130	
Trichloroethene	10.00	10.03	ppbv	100	70-130	
1,2-Dichloropropane	10.00	9.169	ppbv	92	70-130	
Bromodichloromethane	10.00	9.772	ppbv	98	70-130	
cis-1,3-Dichloropropene	10.00	10.51	ppbv	105	70-130	
4-Methyl-2-Pentanone	10.00	9.903	ppbv	99	70-130	
Toluene	10.00	10.07	ppbv	101	70-130	
trans-1,3-Dichloropropene	10.00	10.62	ppbv	106	70-130	
1,1,2-Trichloroethane	10.00	9.832	ppbv	98	70-130	
Tetrachloroethene	10.00	9.927	ppbv	99	70-130	
2-Hexanone	10.00	9.840	ppbv	98	70-130	
Dibromochloromethane	10.00	10.62	ppbv	106	70-130	
1,2-Dibromoethane	10.00	9.982	ppbv	100	70-130	
Chlorobenzene	10.00	10.28	ppbv	103	70-130	
Ethylbenzene	10.00	10.58	ppbv	106	70-130	
m,p-Xylenes	20.00	20.88	ppbv	104	70-130	

## Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

QC1021095 Analyte	Spiked	Result (V)	Units (V)	%REC	Limits	Qual
o-Xylene	10.00	10.35	ppbv	104	70-130	
Styrene	10.00	11.01	ppbv	110	70-130	
Bromoform	10.00	12.60	ppbv	126	70-130	b
1,1,2,2-Tetrachloroethane	10.00	10.14	ppbv	101	70-130	
1,1,1,2-Tetrachloroethane	10.00	10.52	ppbv	105	70-130	
4-Ethyltoluene	10.00	10.69	ppbv	107	70-130	
1,3,5-Trimethylbenzene	10.00	10.64	ppbv	106	70-130	
1,2,4-Trimethylbenzene	10.00	10.82	ppbv	108	70-130	
1,3-Dichlorobenzene	10.00	10.42	ppbv	104	70-130	
1,4-Dichlorobenzene	10.00	10.37	ppbv	104	70-130	
Benzyl chloride	10.00	11.05	ppbv	110	70-130	
1,2-Dichlorobenzene	10.00	10.57	ppbv	106	70-130	
1,2,4-Trichlorobenzene	10.00	12.16	ppbv	122	70-130	
Hexachlorobutadiene	10.00	10.59	ppbv	106	70-130	

QC1021095 Surrogate	%REC	Limits
Bromofluorobenzene	101	60-140

**Type:** BSD

**DiIn Fac:** 1.000

**Prep:** METHOD

**Lab ID:** QC1021096

**Batch#:** 299622

**Analysis:** EPA TO-15

**Matrix:** Air

**Analyzed:** 10/25/22 19:17

**Analyst:** ZNZ

QC1021096 Analyte	Spiked	Result (V)	Units (V)	%REC	Limits	RPD	Lim	Qual
1,1-Difluoroethane	10.00	9.336	ppbv	93	70-130	1	25	
Naphthalene	10.00	11.44	ppbv	114	70-130	3	25	
Freon 12	10.00	9.037	ppbv	90	70-130	5	25	
Freon 114	10.00	10.08	ppbv	101	70-130	0	25	
Chloromethane	10.00	9.317	ppbv	93	70-130	2	25	
Vinyl Chloride	10.00	9.629	ppbv	96	70-130	1	25	
Bromomethane	10.00	10.06	ppbv	101	70-130	1	25	
Chloroethane	10.00	9.842	ppbv	98	70-130	1	25	
Trichlorofluoromethane	10.00	9.389	ppbv	94	70-130	0	25	
1,1-Dichloroethene	10.00	9.416	ppbv	94	70-130	0	25	
Freon 113	10.00	9.669	ppbv	97	70-130	0	25	
Acetone	10.00	9.783	ppbv	98	70-130	0	25	
Carbon Disulfide	10.00	9.656	ppbv	97	70-130	0	25	
Isopropanol (IPA)	10.00	9.689	ppbv	97	70-130	0	25	
Methylene Chloride	10.00	8.890	ppbv	89	70-130	1	25	
trans-1,2-Dichloroethene	10.00	9.486	ppbv	95	70-130	1	25	
MTBE	10.00	10.02	ppbv	100	70-130	0	25	
n-Hexane	10.00	9.759	ppbv	98	70-130	1	25	
1,1-Dichloroethane	10.00	9.434	ppbv	94	70-130	0	25	
Vinyl Acetate	10.00	8.719	ppbv	87	70-130	2	25	
cis-1,2-Dichloroethene	10.00	9.567	ppbv	96	70-130	1	25	
2-Butanone	10.00	9.236	ppbv	92	70-130	0	25	
Chloroform	10.00	9.489	ppbv	95	70-130	0	25	
1,1,1-Trichloroethane	10.00	9.561	ppbv	96	70-130	0	25	

## Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

QC1021096 Analyte	Spiked	Result (V)	Units (V)	%REC	Limits	RPD	Lim	Qual
Carbon Tetrachloride	10.00	9.872	ppbv	99	70-130	0	25	
Benzene	10.00	9.829	ppbv	98	70-130	1	25	
1,2-Dichloroethane	10.00	9.038	ppbv	90	70-130	1	25	
Trichloroethene	10.00	9.980	ppbv	100	70-130	0	25	
1,2-Dichloropropane	10.00	9.198	ppbv	92	70-130	0	25	
Bromodichloromethane	10.00	9.763	ppbv	98	70-130	0	25	
cis-1,3-Dichloropropene	10.00	10.56	ppbv	106	70-130	1	25	
4-Methyl-2-Pentanone	10.00	9.906	ppbv	99	70-130	0	25	
Toluene	10.00	10.08	ppbv	101	70-130	0	25	
trans-1,3-Dichloropropene	10.00	10.73	ppbv	107	70-130	1	25	
1,1,2-Trichloroethane	10.00	9.850	ppbv	99	70-130	0	25	
Tetrachloroethene	10.00	9.992	ppbv	100	70-130	1	25	
2-Hexanone	10.00	9.945	ppbv	99	70-130	1	25	
Dibromochloromethane	10.00	10.67	ppbv	107	70-130	1	25	
1,2-Dibromoethane	10.00	10.04	ppbv	100	70-130	1	25	
Chlorobenzene	10.00	10.36	ppbv	104	70-130	1	25	
Ethylbenzene	10.00	10.70	ppbv	107	70-130	1	25	
m,p-Xylenes	20.00	21.06	ppbv	105	70-130	1	25	
o-Xylene	10.00	10.42	ppbv	104	70-130	1	25	
Styrene	10.00	11.10	ppbv	111	70-130	1	25	
Bromoform	10.00	12.57	ppbv	126	70-130	0	25	b
1,1,2,2-Tetrachloroethane	10.00	10.30	ppbv	103	70-130	2	25	
1,1,1,2-Tetrachloroethane	10.00	10.53	ppbv	105	70-130	0	25	
4-Ethyltoluene	10.00	10.82	ppbv	108	70-130	1	25	
1,3,5-Trimethylbenzene	10.00	10.76	ppbv	108	70-130	1	25	
1,2,4-Trimethylbenzene	10.00	10.94	ppbv	109	70-130	1	25	
1,3-Dichlorobenzene	10.00	10.50	ppbv	105	70-130	1	25	
1,4-Dichlorobenzene	10.00	10.46	ppbv	105	70-130	1	25	
Benzyl chloride	10.00	11.46	ppbv	115	70-130	4	25	
1,2-Dichlorobenzene	10.00	10.70	ppbv	107	70-130	1	25	
1,2,4-Trichlorobenzene	10.00	12.42	ppbv	124	70-130	2	25	
Hexachlorobutadiene	10.00	10.42	ppbv	104	70-130	2	25	
<b>QC1021096 Surrogate</b>				<b>%REC</b>	<b>Limits</b>			
Bromofluorobenzene				101	60-140			

Legend

**RPD:** Relative Percent Difference

**Result (V):** Result in volume units

**b:** See narrative

## Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Type:** BLANK

**DiIn Fac:** 1.000

**Prep:** METHOD

**Lab ID:** QC1021097

**Batch#:** 299622

**Analysis:** EPA TO-15

**Matrix:** Air

**Analyzed:** 10/25/22 21:47

**Analyst:** ZNZ

QC1021097 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
1,1-Difluoroethane	ND	1.0	ppbv	ND	2.7	ug/m3
Naphthalene	ND	1.0	ppbv	ND	5.2	ug/m3
Freon 12	ND	0.20	ppbv	ND	0.99	ug/m3
Freon 114	ND	0.20	ppbv	ND	1.4	ug/m3
Chloromethane	ND	0.20	ppbv	ND	0.41	ug/m3
Vinyl Chloride	ND	0.20	ppbv	ND	0.51	ug/m3
Bromomethane	ND	0.20	ppbv	ND	0.78	ug/m3
Chloroethane	ND	0.20	ppbv	ND	0.53	ug/m3
Trichlorofluoromethane	ND	0.20	ppbv	ND	1.1	ug/m3
1,1-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
Freon 113	ND	0.20	ppbv	ND	1.5	ug/m3
Acetone	ND	1.0	ppbv	ND	2.4	ug/m3
Carbon Disulfide	ND	0.20	ppbv	ND	0.62	ug/m3
Isopropanol (IPA)	ND	1.0	ppbv	ND	2.5	ug/m3
Methylene Chloride	ND	0.20	ppbv	ND	0.69	ug/m3
trans-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
MTBE	ND	0.20	ppbv	ND	0.72	ug/m3
n-Hexane	ND	0.20	ppbv	ND	0.70	ug/m3
1,1-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
Vinyl Acetate	ND	1.0	ppbv	ND	3.5	ug/m3
cis-1,2-Dichloroethene	ND	0.20	ppbv	ND	0.79	ug/m3
2-Butanone	ND	1.0	ppbv	ND	2.9	ug/m3
Chloroform	ND	0.20	ppbv	ND	0.98	ug/m3
1,1,1-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Carbon Tetrachloride	ND	0.20	ppbv	ND	1.3	ug/m3
Benzene	ND	0.20	ppbv	ND	0.64	ug/m3
1,2-Dichloroethane	ND	0.20	ppbv	ND	0.81	ug/m3
Trichloroethene	ND	0.20	ppbv	ND	1.1	ug/m3
1,2-Dichloropropane	ND	0.20	ppbv	ND	0.92	ug/m3
Bromodichloromethane	ND	0.20	ppbv	ND	1.3	ug/m3
cis-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
4-Methyl-2-Pentanone	ND	0.20	ppbv	ND	0.82	ug/m3
Toluene	ND	0.20	ppbv	ND	0.75	ug/m3
trans-1,3-Dichloropropene	ND	0.20	ppbv	ND	0.91	ug/m3
1,1,2-Trichloroethane	ND	0.20	ppbv	ND	1.1	ug/m3
Tetrachloroethene	ND	0.20	ppbv	ND	1.4	ug/m3
2-Hexanone	ND	0.50	ppbv	ND	2.0	ug/m3
Dibromochloromethane	ND	0.20	ppbv	ND	1.7	ug/m3
1,2-Dibromoethane	ND	0.20	ppbv	ND	1.5	ug/m3
Chlorobenzene	ND	0.20	ppbv	ND	0.92	ug/m3
Ethylbenzene	ND	0.20	ppbv	ND	0.87	ug/m3
m,p-Xylenes	ND	0.40	ppbv	ND	1.7	ug/m3

## Enthalpy Analytical - Orange Analytical Report: Batch QC

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

QC1021097 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
o-Xylene	ND	0.20	ppbv	ND	0.87	ug/m3
Styrene	ND	0.20	ppbv	ND	0.85	ug/m3
Bromoform	ND	0.20	ppbv	ND	2.1	ug/m3
1,1,2,2-Tetrachloroethane	ND	0.20	ppbv	ND	1.4	ug/m3
1,1,1,2-Tetrachloroethane	ND	0.20	ppbv	ND	1.4	ug/m3
4-Ethyltoluene	ND	0.20	ppbv	ND	0.98	ug/m3
1,3,5-Trimethylbenzene	ND	0.20	ppbv	ND	0.98	ug/m3
1,2,4-Trimethylbenzene	ND	0.20	ppbv	ND	0.98	ug/m3
1,3-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,4-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
Benzyl chloride	ND	0.20	ppbv	ND	1.0	ug/m3
1,2-Dichlorobenzene	ND	0.20	ppbv	ND	1.2	ug/m3
1,2,4-Trichlorobenzene	ND	0.20	ppbv	ND	1.5	ug/m3
Hexachlorobutadiene	ND	0.20	ppbv	ND	2.1	ug/m3
Xylene (total)	ND	0.20	ppbv	ND	0.87	ug/m3

QC1021097 Surrogate	%REC	Limits	Units (M)
Bromofluorobenzene	103	60-140	ug/m3

Legend

**ND:** Not Detected

**RL (V):** Reporting Limit

**Result (M):** Result in mass units

**Result (V):** Result in volume units

### Gas range organics by EPA TO-3M

<b>Lab #:</b> 471103			<b>Project#:</b> 2226-2			
<b>Client:</b> Environmental Investigation Services			<b>Location:</b> 2755 41st Ave, Soquel, CA			
<b>Field ID:</b> SV-1A	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 16:05				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-001	<b>Sampled:</b> 10/18/22 11:14	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-001 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.87	0.050	ppmv	3.5	0.20	mg/m3
<b>Field ID:</b> SV-1B	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 16:35				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-002	<b>Sampled:</b> 10/18/22 10:56	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-002 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.17	0.050	ppmv	0.69	0.20	mg/m3
<b>Field ID:</b> SV-1C	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 17:05				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-003	<b>Sampled:</b> 10/18/22 11:06	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-003 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.17	0.050	ppmv	0.68	0.20	mg/m3
<b>Field ID:</b> SV-2A	<b>DiIn Fac:</b> 1.800	<b>Analyzed:</b> 10/25/22 17:34				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-004	<b>Sampled:</b> 10/18/22 10:24	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-004 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.25	0.045	ppmv	1.0	0.18	mg/m3
<b>Field ID:</b> SV-2B	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 18:04				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-005	<b>Sampled:</b> 10/18/22 10:34	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-005 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.45	0.050	ppmv	1.8	0.20	mg/m3
<b>Field ID:</b> SV-2C	<b>DiIn Fac:</b> 1.700	<b>Analyzed:</b> 10/25/22 18:33				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-006	<b>Sampled:</b> 10/18/22 10:45	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-006 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.78	0.043	ppmv	3.2	0.17	mg/m3

### Gas range organics by EPA TO-3M

<b>Lab #:</b> 471103			<b>Project#:</b> 2226-2			
<b>Client:</b> Environmental Investigation Services			<b>Location:</b> 2755 41st Ave, Soquel, CA			
<b>Field ID:</b> SV-4A	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 19:03				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-007	<b>Sampled:</b> 10/18/22 09:34	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-007 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.15	0.050	ppmv	0.60	0.20	mg/m3
<b>Field ID:</b> SV-4B	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 19:32				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-008	<b>Sampled:</b> 10/18/22 09:46	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-008 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.62	0.050	ppmv	2.5	0.20	mg/m3
<b>Field ID:</b> SV-4C	<b>DiIn Fac:</b> 1.800	<b>Analyzed:</b> 10/25/22 20:02				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-009	<b>Sampled:</b> 10/18/22 10:00	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-009 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.077	0.045	ppmv	0.31	0.18	mg/m3
<b>Field ID:</b> SV-5A	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 20:32				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-010	<b>Sampled:</b> 10/18/22 11:32	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-010 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.31	0.050	ppmv	1.3	0.20	mg/m3
<b>Field ID:</b> SV-5B	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 21:01				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-011	<b>Sampled:</b> 10/18/22 11:41	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-011 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.31	0.050	ppmv	1.3	0.20	mg/m3
<b>Field ID:</b> SV-5C	<b>DiIn Fac:</b> 1.600	<b>Analyzed:</b> 10/25/22 21:31				
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>				
<b>Lab ID:</b> 471103-012	<b>Sampled:</b> 10/18/22 11:56	<b>Analysis:</b> EPA TO-3M				
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL				
<b>471103-012 Analyte</b>	<b>Result (V)</b>	<b>RL (V)</b>	<b>Units (V)</b>	<b>Result (M)</b>	<b>RL (M)</b>	<b>Units (M)</b>
TPH Gasoline	0.48	0.040	ppmv	2.0	0.16	mg/m3



### Gas range organics by EPA TO-3M

**Lab #:** 471103 **Project#:** 2226-2  
**Client:** Environmental Investigation Services **Location:** 2755 41st Ave, Soquel, CA

<b>Field ID:</b> SV-6A	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 22:00
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>
<b>Lab ID:</b> 471103-013	<b>Sampled:</b> 10/18/22 12:15	<b>Analysis:</b> EPA TO-3M
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL

471103-013 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
TPH Gasoline	0.38	0.050	ppmv	1.5	0.20	mg/m3

<b>Field ID:</b> SV-6B	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 22:30
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>
<b>Lab ID:</b> 471103-014	<b>Sampled:</b> 10/18/22 12:24	<b>Analysis:</b> EPA TO-3M
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL

471103-014 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
TPH Gasoline	0.29	0.050	ppmv	1.2	0.20	mg/m3

<b>Field ID:</b> SV-6C	<b>DiIn Fac:</b> 2.000	<b>Analyzed:</b> 10/25/22 22:59
<b>Type:</b> SAMPLE	<b>Batch#:</b> 299556	<b>Prep:</b>
<b>Lab ID:</b> 471103-015	<b>Sampled:</b> 10/18/22 12:35	<b>Analysis:</b> EPA TO-3M
<b>Matrix:</b> Air	<b>Received:</b> 10/19/22	<b>Analyst:</b> JLL

471103-015 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
TPH Gasoline	0.24	0.050	ppmv	0.99	0.20	mg/m3

<b>Type:</b> BLANK	<b>DiIn Fac:</b> 1.000	<b>Prep:</b>
<b>Lab ID:</b> QC1020904	<b>Batch#:</b> 299556	<b>Analysis:</b> EPA TO-3M
<b>Matrix:</b> Air	<b>Analyzed:</b> 10/25/22 09:31	<b>Analyst:</b> JLL

QC1020904 Analyte	Result (V)	RL (V)	Units (V)	Result (M)	RL (M)	Units (M)
TPH Gasoline	ND	0.025	ppmv	ND	0.10	mg/m3

Legend  
**ND:** Not Detected  
**RL (V):** Reporting Limit  
**Result (M):** Result in mass units  
**Result (V):** Result in volume units

## Gas range organics by EPA TO-3M: Batch QC

**Lab #:** 471103

**Project#:** 2226-2

**Client:** Environmental Investigation Services

**Location:** 2755 41st Ave, Soquel, CA

**Type:** BS

**Diln Fac:** 1.000

**Prep:**
**Lab ID:** QC1020902

**Batch#:** 299556

**Analysis:** EPA TO-3M

**Matrix:** Air

**Analyzed:** 10/25/22 08:06

**Analyst:** JLL

QC1020902 Analyte	Spiked	Result (V)	Units (V)	%REC	Limits
TPH Gasoline	2.500	2.742	ppmv	110	70-130

**Type:** BSD

**Diln Fac:** 1.000

**Prep:**
**Lab ID:** QC1020903

**Batch#:** 299556

**Analysis:** EPA TO-3M

**Matrix:** Air

**Analyzed:** 10/25/22 08:35

**Analyst:** JLL

QC1020903 Analyte	Spiked	Result (V)	Units (V)	%REC	Limits	RPD	Lim
TPH Gasoline	2.500	2.619	ppmv	105	70-130	5	25

Legend

**RPD:** Relative Percent Difference

**Result (V):** Result in volume units