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**SILICON VALLEY**  
**ENVIRONMENTAL**

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## **Soil Sampling Report**

March 21, 2025

**1001 South Wolfe Road  
Sunnyvale, California 94086**

Prepared for:  
**Mr. Samir Sharma**

Silicon Valley Environmental/Phase-1 Environmental Services is pleased to submit our report describing the findings of this Soil Sampling Report at the above-referenced Property. This assessment was prepared in general accordance with the American Society of Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process – ASTM Designation: E1903-19.

### **Reliance**

This report may be distributed and relied upon by Mr. Samir Sharma (the Client), their successors, and assigns - with the reality that the entire report must be read, including Section 6 (Significant Assumptions, Limitations, and Reliance). Reliance on the information and conclusions in this report by any other person or entity is not authorized without the express written consent from Silicon Valley Environmental/Phase-1 Environmental Services.

If you have any questions or require further clarification of the report findings, please contact the undersigned at your convenience. Thank you for the opportunity to be of service.

Respectfully,

Silicon Valley Environmental Group/Phase-1 Environmental Services

Christopher G. Solomon  
Senior Assessor  
CEO – Environmental Professional



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## 1) INTRODUCTION

Silicon Valley Environmental Group, Inc. (SVEG) appreciates the opportunity to work on the project located at 1001 South Wolfe Road, Sunnyvale, California 94087 (the Site - **Figures 1 and 2**). SVEG has been retained to prepare this Soil Sampling Report for the subject Site. SVEG understands that the Site is being considered for residential redevelopment. The primary objective of this investigation was to evaluate soil conditions at the Site to assess whether or not environmental impacts exist related to the historical agricultural use of the Site and/or the adjacent properties as commercial fruit orchards from at least 1939 through the mid-1970s. In general, the investigation consisted of collecting a series of soil samples from strategic locations across the Site. The specific details and results of the investigation are presented herein.

## 2) SITE INFORMATION

The subject Site is located in the southern portion of Sunnyvale, California. At the time of this investigation, the Site consisted of one contiguous parcel measuring ~0.32-acres. A total of two residential buildings are situated on the Site, specifically a single-family residence in the eastern part of the Property and a private garage near the center. The remaining portions of the Site are generally unpaved and do not appear to be maintained/landscaped regularly. The general region consists primarily of residential properties, although the Sunken Gardens Golf Course is located about 150-ft southeast of the Site beyond the intersection of S Wolfe Rd. and Sunken Gardens Terrace. A Site Vicinity Map and Sample Location Map are included as Figures 1 and 2, respectively.

### 2.1) Physical Setting

The Subject Property is located at an elevation of approximately 120-feet above mean sea level (U.S. Geological Survey "Cupertino, CA" 7.5 Minute Topographic map). The immediate vicinity of the Site is relatively flat. Regionally, the general topographic down-slope is towards the northeast. Based upon the regional topographic downslope and a review of publicly available data related to nearby cleanup cases, shallow, first-encountered groundwater is expected to be present at depths of approximately 10 to 20-ft below ground surface (bgs). The local hydraulic gradient is anticipated to flow towards the north/northeast.

As previously mentioned, this portion of Sunnyvale was historically developed with large swaths of orchards as recently as the 1950s or 1960s, primarily stone fruit orchards such as apricot, cherry, and prunes. Orchards historically used Organochlorine Pesticides (OCPs) within their operations. OCPs are chlorinated hydrocarbons that were used extensively from the 1940s through the mid-1970s in agriculture and mosquito control. Representative compounds in this group include DDT, DDE, DDD, Dieldrin, Chlordane, Toxaphene, and others. These compounds are known for their high toxicity, slow degradation, and bioaccumulation. Most OCP uses were banned in California in 1974. One common application for OCPs was fruit orchards, which were prevalent throughout many areas of California during the 1940s through the 1960s. Physical human contact with these chemicals by touching, playing,

or working in can cause cancer and other physical ailments - even when concentrations are very low. New or redevelopment of properties that resided in potential OCP zones – especially for residential occupancy, now requires testing shallow soils for their residuals.

Considering the information presented above, as well as the fact that the Site is being considered for residential redevelopment, SVEG was retained to implement the current soil sampling field investigation to assess the current shallow soil conditions at the Site. In general, this investigation consisted of the collection of a series of shallow, near-surface soil samples from four strategically chosen locations. The complete details of the investigation are presented in the following sections.

### **3) SOIL SAMPLING FIELD INVESTIGATION**

A representative of SVEG coordinated, oversaw, and/or conducted all activities detailed in this investigation. Field activities involving soil sampling were conducted on March 12, 2025. The investigation consisted of collecting a series of one discrete soil sample per sampling location from a total of four sampling locations across the Site, for a total of four soil samples. The approximate sampling locations are depicted on Figure 2. The specific investigatory methods are described below.

#### **3.1) Soil Sample Collection**

A total of four soil samples (B1 through B4) were collected using hand equipment – a 3-inch diameter hand auger - on March 12, 2025. Surficial soils and organic materials were first removed by hand from the immediate ground surface. Following surficial debris removal, each soil boring was advanced to a total explored depth of 1.0-ft below ground surface (bgs). Once the desired sampling depth had been achieved, a small volume of soil was emptied into a clean, disposable, polyethylene container and broken up by hand to achieve a generally uniform texture. Once any soil clumps had been broken up, each sample was retained in a clean, laboratory provided, 6" long X 2" wide stainless steel soil sleeve.

Each steel sleeve was filled with minimum headspace cavitation and the ends of each sleeve were sealed with Teflon™ sheets and capped with disposable polyethylene and/or silicone endcaps. All downhole equipment was hand washed/cleaned between each discrete soil sample. A total of four soil samples were collected in this manner. The samples were labeled, sealed in individual plastic bags, and placed in a pre-chilled ice chest with ice to remain at 4° Celsius (°C) until they arrived at the chosen analytical laboratory.

### **4) SAMPLE ANALYSIS AND RESULTS**

During the field activities, a total of four soil samples were collected in the methods described above and transported in a chilled-cooler under proper chain-of-custody documentation to Enthalpy Analytical Laboratory based in Emeryville, CA (CA ELAP #1338). Based upon the nature of the planned development of the Site, each discrete soil sample was chosen for the following analysis:

- Organochlorine pesticides (OCPs) by USEPA Method 8081
- Arsenic and Lead by USEPA Method 6020

## 4.1) Analytical Results

A tabular summary of the analytical laboratory results is presented in **Table 1**. The complete laboratory analytical report is presented in **Appendix A**. Soil results were compared to Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for direct exposure in a residential setting and construction worker health scenario (RWQCB, 2019 Rev. 2), where established. ESLs are guidelines established by the RWQCB and 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). Analyzed parameters were not detected above laboratory method detection limits (MDLs), except as follows:

### **Soil Results**

- **Arsenic** was detected in all soil samples at concentrations ranging from 2.4 to 6.3 milligrams per kilogram (mg/kg), all of which exceed the applied residential and construction worker health ESLs.
- **Lead** was detected in all soil samples at concentrations ranging from 5.7 to 8.0 mg/kg, all of which are below the applied residential and construction worker health ESLs.
- **Dieldrin** was detected in soil samples B1 and B2 at concentrations of 0.036 and 0.26 mg/kg, respectively. Sample B2 (0.26 mg/kg) exceeds the applied residential ESL (0.037 mg/kg) but is well below the applied construction worker health ESL (1.1 mg/kg). Sample B1 (0.036 mg/kg) is below the applied residential and construction worker health ESLs.
- No additional OCP analytes were detected in any of the soil samples at concentrations above their respective laboratory MDLs.

## 5) CONCLUSIONS AND RECOMMENDATIONS

The primary objective of this investigation was to evaluate soil conditions at the Site to assess whether or not environmental impacts exist related to past agricultural operations in the region. To achieve this objective SVEG collected and analyzed a series of soil samples from strategically placed locations across the Site. A total of four soil samples were submitted for analysis by the analytical laboratory. Following laboratory analysis, the sample results were compared to applicable Environmental Screening Levels (ESLs).

### 5.1) Conclusions

The following conclusions are based upon review of historical environmental reports, interpretation of analytical data, and field measurements collected in December 2023:

- **Dieldrin** was detected in soil sample B2 at a concentration of 0.26 mg/kg, which exceeds the applied residential ESL (0.037 mg/kg) but is well below the applied construction worker health ESL (1.1 mg/kg). The dieldrin concentration in sample B1 (0.036 mg/kg) is below the applied residential and construction worker health ESLs. Dieldrin was not detected above laboratory method detection limits (MDLs) in soil samples B3 and B4. *SVEG concludes that limited environmental impacts exist related to past agricultural uses of the Site, specifically slightly elevated concentrations of dieldrin in the vicinity of soil sample B2. The magnitude of the detected dieldrin concentrations in soil samples B1 and B2 are not considered indicative of large-scale, gross contamination of Site soils with dieldrin, nor are they considered indicative of some presently unknown on-Site source.*
- As discussed in **Section 4.1**, the detected concentrations of **arsenic** in all analyzed soil samples ranged from 2.4 to 6.3 mg/kg, which exceed the established residential and construction worker health ESLs of 0.067 and 0.98 mg/kg, respectively (**Table 1**). However, the detected concentrations in all samples appear to be typical of background arsenic concentrations in the region. A study that analyzed regional soils in the San Francisco Bay Area reported the upper range of arsenic in soils to be 11 mg/kg (Duverge, 2011). Another study in the region found the upper background concentration for arsenic in soil to be 24 mg/kg (LBNL, 2009). It should additionally be noted that the California Environmental Protection Agency (CalEPA) and other agencies within California typically do not require cleanup of naturally occurring chemicals or metal species to less than background concentrations. *As such, SVEG concludes that the above-ESL arsenic detections in all soil samples are typical of background concentrations in the region and do not represent a significant environmental concern.*
- As discussed in **Section 4.1**, **lead** was also detected in one or more soil samples collected during this investigation. However, none of the detected concentrations exceeded any of the applied ESLs, where established. *As such, SVEG concludes that these additional detections of OCP analytes in soil do not represent a significant environmental concern.*

## 5.2) Recommendations

Based on the data collected during this investigation and the above conclusions, SVEG makes the following recommendations:

- SVEG has concluded that limited environmental impacts exist related to past agricultural uses of the Site, specifically slightly elevated concentrations of dieldrin in the vicinity of soil sample B2. The magnitude of the detected dieldrin concentrations in soil samples B1 and B2 are not considered indicative of large-scale, gross contamination of Site soils with dieldrin, nor are they considered indicative of some presently unknown on-Site source.

*SVEG understands that the Site is currently being considered for residential redevelopment. Based upon the results and conclusions of this investigation, it does not appear that an ongoing*

*human health risk to future construction/development crew personnel exists at this time. However, the slightly elevated concentrations of dieldrin may potentially pose a human health risk to future residential Site occupants. Following the development of the Site (if any), SVEG recommends exposed, surficial soils that may be encountered by occupants (lawns, planters, garden beds, landscaping, etc.) be sampled before occupying the Site to ensure that any remaining concentrations of dieldrin in Site soils are below applicable residential ESLs.*

- **It is Silicon Valley Environmental's professional opinion that no further action is recommended at this time.**

## 6) SIGNIFICANT ASSUMPTIONS, LIMITATIONS, AND RELIANCE

This report has been prepared in accordance with generally accepted environmental methodologies and industry standards as they relate to the Data Quality Objectives of the assessment. No warranties, expressed or implied, are made as to the professional services provided under the terms of Silicon Valley Environmental Group, Inc. contract/proposal(s) or specified in this report. This assessment has been conducted, in part, based on information, data or reports provided or prepared by others. Silicon Valley Environmental, Inc. reviews and interprets these documents in good faith and assumes that the provided data and documents are true and accurate.

Environmental conditions at the site were assessed or interpreted within the context of Silicon Valley Environmental Group, Inc. contract/proposal(s) and existing environmental regulations of applicable jurisdiction(s) as of the date of the report. Regulatory requirements, regulations and guidance are subject to change subsequent to the date of the report. Unless otherwise stated in the report, evaluating compliance of past, present or future owners with applicable local, provincial and federal government laws and regulations was not included within the scope of the assessment.

The environmental assessment is limited by the availability of information at the time of the assessment. The conclusions and recommendations regarding environmental conditions presented in this report are based on a scope of work authorized by the Client. It is possible that unreported conditions impairing the environmental status of the site may have occurred, which could not be identified. Silicon Valley Environmental Group, Inc.'s opinions cannot be extended to portions of the site that were unavailable for direct access and observation reasonably beyond the control of Silicon Valley Environmental Group, Inc. or outside of the scope of the assessment. Environmental assessment activities, particularly the sampling of soil, vapor (air), groundwater and structure materials, represent those conditions which are present at the time of sampling within the immediate vicinity of the sample(s) collected. Although sampling plans are developed in an attempt to provide what is interpreted as sufficient coverage within the assessment area to achieve the investigative objectives, no extent of sampling can guarantee all environmental conditions, potential chemicals of concern (man-made or naturally occurring) and concentrations at which they occur have been identified and quantified absolutely. The assessment performed and outlined in this report was based, in part, upon

visual observations of the site and attendant structures. It should be noted that compounds, materials or chemicals of potential concern other than those described could be present in the site environment, and the possibility remains that unexpected environmental conditions may be encountered at the site in locations not specifically investigated.

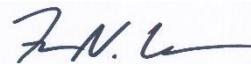
All components of this report, including but not limited to text, signatures, certifications, figures, tables, attachments, appendices, supporting documents and addenda are integral to the reporting of the assessment. This report may not be reproduced, except in full, without written approval of Silicon Valley Environmental Group, Inc.

This report has been prepared for the sole use of our Client(s). The contents should not be relied upon by any other parties without the express written consent of our Client and Silicon Valley Environmental Group, Inc.

Respectfully submitted,



Lawrence Bush  
Staff Geologist – GIT #1331



Forrest N. Cook  
CA Professional Geologist # 8201



Reviewed



Christopher G. Solomon  
SVEG CEO – Environmental Consultant.

## 7) REFERENCES

Diamond, David, 2009, Lawrence Berkeley National Laboratory, Analysis of background distributions of metals in soil at Lawrence Berkeley National Laboratory, May 4, 2009.

Duverge, D.J., 2011, San Francisco State University Thesis, Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, December 2011.

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

United States Department of the Interior Geologic Survey (USGS). 2012. Cupertino, California 7.5-Minute Quadrangle.

## FIGURES

### 1) Site Vicinity Map

### 2) Sample Location Map

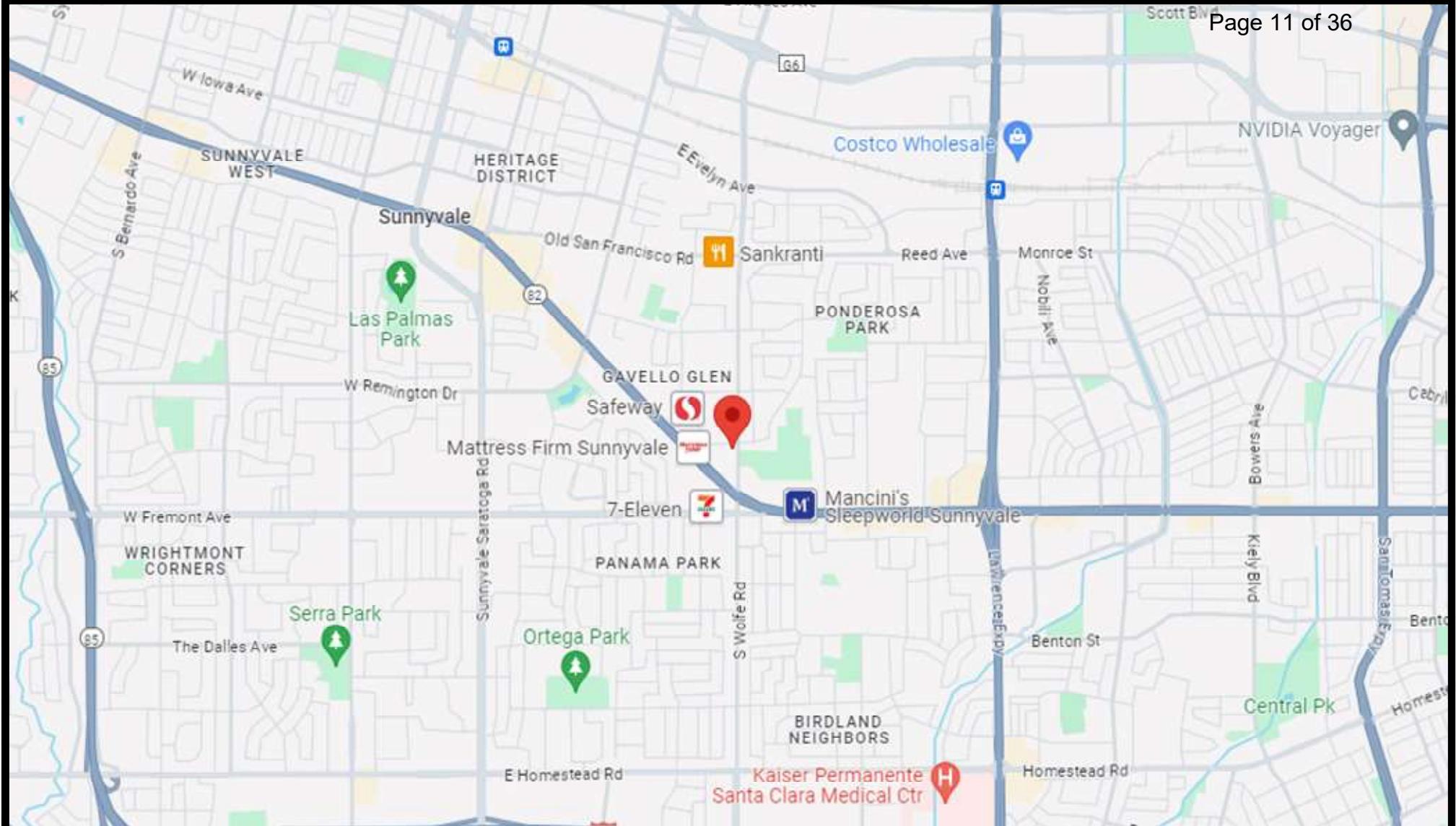
## TABLES

### 1) Soil Analytical Results Summary – Metals and OCPs

## APPENDICES

### A) Laboratory Analytical Report

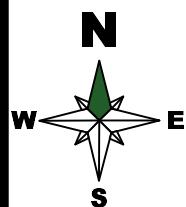
## Figures

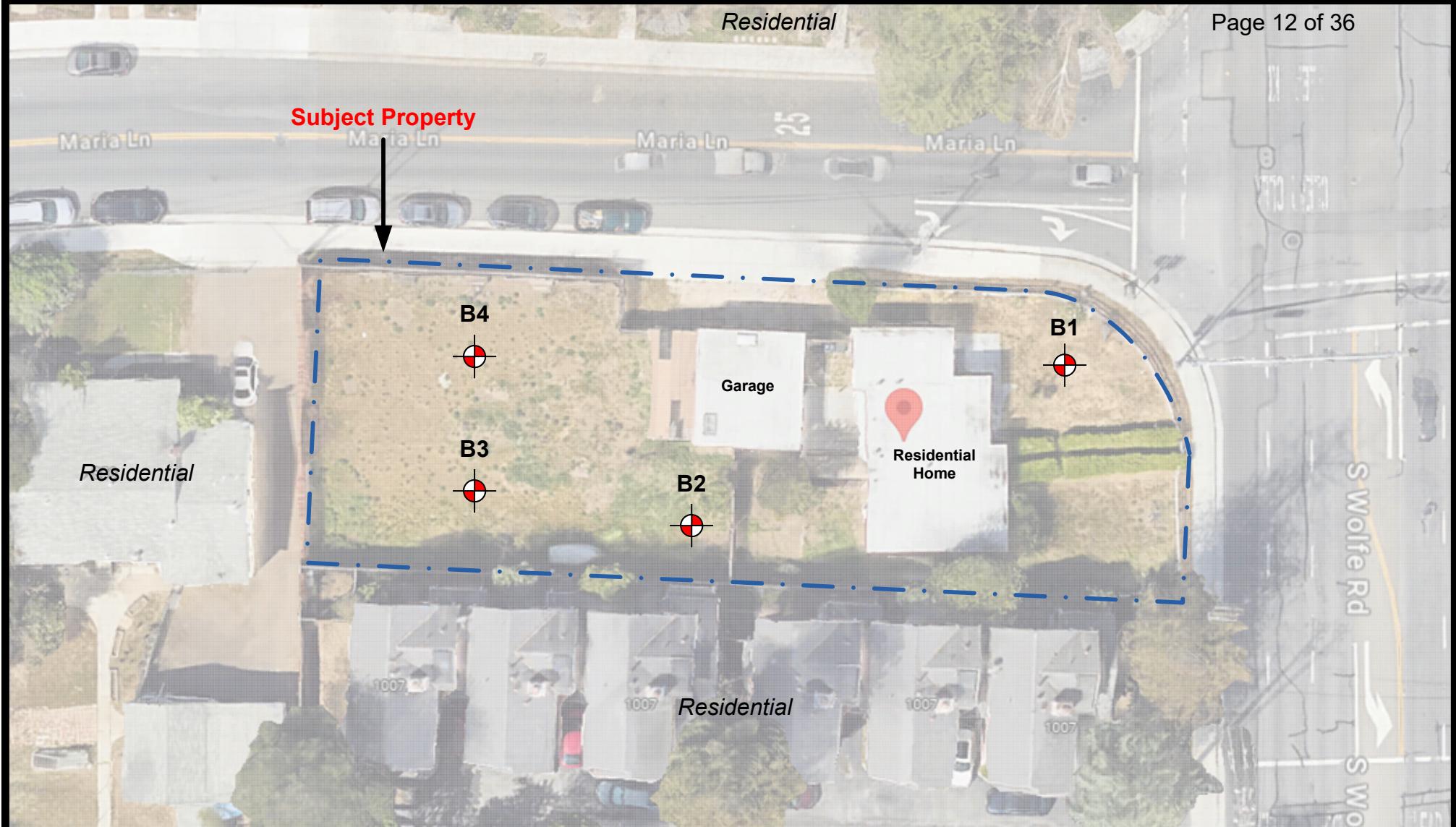
**Legend**

**SILICON VALLEY  
ENVIRONMENTAL**

[www.sveginc.com](http://www.sveginc.com)

**Figure 1  
SITE VICINITY MAP**  
1001 S WOLFE RD, SUNNYVALE, CA 94086  
APN # 211-16-042  
Project: P2-06-06-24



**Legend**

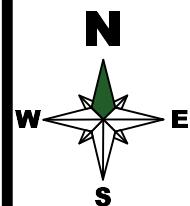
Sample Locations



**SILICON VALLEY  
ENVIRONMENTAL**

[www.sveginc.com](http://www.sveginc.com)

**Figure 2**  
**SITE PLAN DRAFT**  
1001 S WOLFE RD, SUNNYVALE, CA 94086  
APN # 211-16-042  
Project: P2-06-06-24-PH2



## Tables

### **Soil Analytical Results Summary**

**TABLE 1**  
 Soil Analytical Results Summary - Metals and OCPs  
 1001 South Wolfe Road  
 Sunnyvale, California 94086

Sample ID	Sample Date	Sample Depth (ft)	Metals		OCPs	
			Arsenic	Lead	Dieldrin	All Other Analyzed OCPs
B1	3/12/2025	0-0.5	<b>3.4</b>	<b>8</b>	<b>0.036</b>	ND
B2	3/12/2025	0-0.5	<b>4.4</b>	<b>7</b>	<b>0.26</b>	ND
B3	3/12/2025	0-0.5	<b>6.3</b>	<b>7.7</b>	<0.0050	ND
B4	3/12/2025	0-0.5	<b>2.4</b>	<b>5.7</b>	<0.0051	ND
<b>RWQCB ESLs (Residential)</b>			<b>0.067</b>	<b>80</b>	<b>0.037</b>	<b>Various</b>
<b>RWQCB ESLs (Construction Worker Health)</b>			<b>0.98</b>	<b>160</b>	<b>1.1</b>	<b>Various</b>

Notes:

Sample results reported in milligrams per kilogram (mg/kg).

NE = not established ND = not detected NA = Not Analyzed

OCPs = Organochlorine Pesticides

**Bolded value denotes analyte detected**

**Shaded value denotes exceedance of one or more applied ESL.**

<1.0 = not detected above analytical laboratory Method Detection Limit (MDL)

Arsenic/lead analyzed by USEPA Method 6010B

OCPs analyzed by USEPA Method 8081.

RWQCB ESL = San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (January 201

The listed ESLs are based on Direct Exposure, Human Health Risk Levels (Table S-1) in residential and construction w

## **Appendix A**

### **Laboratory Analytical Report**



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

[enthalpy.com](http://enthalpy.com)

Lab Job Number : 528714  
Report Level : II  
Report Date : 03/20/2025

**Analytical Report prepared for:**

Chris Solomon  
Silicon Valley Environmental Group  
5216 Harwood Road  
San Jose, CA 95124

Location: 1001 S. Wolfe Rd.

**Authorized for release by:**

A handwritten signature in black ink, appearing to read 'Miguel Gamboa'.

Miguel Gamboa, Project Manager  
[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, ORELAP# 4197



## Sample Summary

Chris Solomon  
Silicon Valley Environmental  
Group  
5216 Harwood Road  
San Jose, CA 95124

Lab Job #: 528714  
Location: 1001 S. Wolfe Rd.  
Date Received: 03/13/25

Sample ID	Lab ID	Collected	Matrix
B1	528714-001	03/12/25 09:16	Soil
B2	528714-002	03/12/25 09:20	Soil
B3	528714-003	03/12/25 09:30	Soil
B4	528714-004	03/12/25 09:36	Soil

## Case Narrative

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Silicon Valley Environmental Group  
5216 Harwood Road  
San Jose, CA 95124  
Chris Solomon

Lab Job Number: 528714  
Location: 1001 S. Wolfe  
Rd.  
Date Received: 03/13/25

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This data package contains sample and QC results for four soil samples, requested for the above referenced project on 03/14/25. The samples were received cold and intact.

### **Pesticides (EPA 8081A):**

- High recoveries were observed for 4,4'-DDD and 4,4'-DDE in the MSD of B2 (lab # 528715-002); the LCS was within limits, the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples.
- High surrogate recovery was observed for decachlorobiphenyl in the method blank for batch 366075; the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample.
- No other analytical problems were encountered.

### **Metals (EPA 6010B):**

No analytical problems were encountered.

Enthalpy Analytical - Berkeley		Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
		Lab No: <u>528714</u>	of	Standard: 2 Day:	X 5 Day:	1 Day:	3 Day: Custom TAT:
Company: Silicon Valley Environmental	Matrix: A = Air S = Soil/Solid	Preservatives: 1 = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 2 = HCl 3 = HNO <sub>3</sub> 4 = H <sub>2</sub> SO <sub>4</sub> 5 = NaOH 6 = Other (lab use only)	Sample Receipt Temp:				
Report To: Chris Solomon	Number: 1001 S Wolfe Rd						
Email: chris@sveginc.com	P.O. #: _____						
Address: 5216 Harwood Rd	Address: 1001 S Wolfe Rd						
Phone: 831-422-2290	Global ID: Sunnyvale, CA						
Fax: _____	Sampled By: CGS						
PROJECT INFORMATION		Analysis Request				Test Instructions / Comments	
		8081 Organochlorine Pesticides	6010B Arsenic	8081 Lead	6010B Total Lead		
CUSTOMER INFORMATION		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	
1 B1	03/12/25	9:16 AM	S	6"	X	X	
2 B2	03/12/25	9:20 AM	S	6"	X	X	
3 B3	03/12/25	9:30 AM	S	6"	X	X	
4 B4	03/12/25	9:36 AM	S	6"	X	X	
5							
6							
7							
8							
9							
10							
<sup>1</sup> Relinquished By:	Signature 	Print Name Chris Solomon	Company / Title Silicon Valley Environmental				
<sup>1</sup> Received By:	<u>Andy Johnson</u>	<u>Andy Johnson</u>	Date / Time 3/13/25 12:20				
<sup>2</sup> Relinquished By:	<u>Andrew Stedden</u>	<u>Andrew Stedden</u>	3/13/25 12:20				
<sup>2</sup> Received By:	<u>measured</u>	<u>measured</u>	3/13/25 14:20				
<sup>3</sup> Relinquished By:	<u>money not</u>	<u>money not</u>	3/13/25 14:57				
<sup>3</sup> Received By:	<u>Taylor</u>	<u>Taylor</u>	3/14/25 11:36				





SOUTHWEST AIRLINES

Printed on:  
13 MAR 1951



526 0AK 2503 6874

**SNA**

PC#	DG	LOT WT
1 OF	G	200 LB
		(90.7 KG)
STN	FLT	DATE
LAS	WN 1389	14 MAR 06:50
OAK	WN 1517	13 MAR 21:55

4.3 +0.0  
JAN 3:44



PC ID: 0001  
PC WT: 50LB

526 25036874 0001

**S**

## Organochlorine Pesticides

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** B1

**Batch#:** 366075

**Prep:** EPA 3546

**Lab ID:** 528714-001

**Sampled:** 03/12/25

**Analysis:** EPA 8081A

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** MES

**Basis:** as received

**Prepared:** 03/16/25

**DF:** 1.020

**Analyzed:** 03/17/25

528714-001 Analyte	Result	RL	Units
alpha-BHC	ND	0.0051	mg/Kg
beta-BHC	ND	0.0051	mg/Kg
gamma-BHC	ND	0.0051	mg/Kg
delta-BHC	ND	0.0051	mg/Kg
Heptachlor	ND	0.0051	mg/Kg
Aldrin	ND	0.0051	mg/Kg
Heptachlor epoxide	ND	0.0051	mg/Kg
Endosulfan I	ND	0.0051	mg/Kg
<b>Dieldrin</b>	<b>0.036</b>	0.0051	mg/Kg
4,4'-DDE	ND	0.0051	mg/Kg
Endrin	ND	0.0051	mg/Kg
Endosulfan II	ND	0.0051	mg/Kg
Endosulfan sulfate	ND	0.0051	mg/Kg
4,4'-DDD	ND	0.0051	mg/Kg
Endrin aldehyde	ND	0.0051	mg/Kg
Endrin ketone	ND	0.0051	mg/Kg
4,4'-DDT	ND	0.0051	mg/Kg
Methoxychlor	ND	0.010	mg/Kg
Toxaphene	ND	0.10	mg/Kg
Chlordane (Technical)	ND	0.051	mg/Kg

528714-001 Surrogate	%REC	Limits
TCMX	79	23-120
Decachlorobiphenyl	104	24-120

**Legend**
**ND:** Not Detected

**RL:** Reporting Limit

## Organochlorine Pesticides

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** B2

**Batch#:** 366075

**Prep:** EPA 3546

**Lab ID:** 528714-002

**Sampled:** 03/12/25

**Analysis:** EPA 8081A

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** MES

**Basis:** as received

**Prepared:** 03/16/25

528714-002 Analyte	Result	RL	Units	DF	Analyzed
alpha-BHC	ND	0.0049	mg/Kg	0.9804	03/17/25
beta-BHC	ND	0.0049	mg/Kg	0.9804	03/17/25
gamma-BHC	ND	0.0049	mg/Kg	0.9804	03/17/25
delta-BHC	ND	0.0049	mg/Kg	0.9804	03/17/25
Heptachlor	ND	0.0049	mg/Kg	0.9804	03/17/25
Aldrin	ND	0.0049	mg/Kg	0.9804	03/17/25
Heptachlor epoxide	ND	0.0049	mg/Kg	0.9804	03/17/25
Endosulfan I	ND	0.0049	mg/Kg	0.9804	03/17/25
<b>Dieldrin</b>	<b>0.26</b>	0.025	mg/Kg	4.902	03/18/25
4,4'-DDE	ND	0.0049	mg/Kg	0.9804	03/17/25
Endrin	ND	0.0049	mg/Kg	0.9804	03/17/25
Endosulfan II	ND	0.0049	mg/Kg	0.9804	03/17/25
Endosulfan sulfate	ND	0.0049	mg/Kg	0.9804	03/17/25
4,4'-DDD	ND	0.0049	mg/Kg	0.9804	03/17/25
Endrin aldehyde	ND	0.0049	mg/Kg	0.9804	03/17/25
Endrin ketone	ND	0.0049	mg/Kg	0.9804	03/17/25
4,4'-DDT	ND	0.0049	mg/Kg	0.9804	03/17/25
Methoxychlor	ND	0.0098	mg/Kg	0.9804	03/17/25
Toxaphene	ND	0.098	mg/Kg	0.9804	03/17/25
Chlordane (Technical)	ND	0.049	mg/Kg	0.9804	03/17/25

528714-002 Surrogate	%REC	Limits	DF	Analyzed
TCMX	79	23-120	0.9804	03/17/25
Decachlorobiphenyl	113	24-120	0.9804	03/17/25

Legend

**ND:** Not Detected

**RL:** Reporting Limit

## Organochlorine Pesticides

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** B3

**Batch#:** 366075

**Prep:** EPA 3546

**Lab ID:** 528714-003

**Sampled:** 03/12/25

**Analysis:** EPA 8081A

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** MES

**Basis:** as received

**Prepared:** 03/16/25

**DF:** 1.000

**Analyzed:** 03/17/25

528714-003 Analyte	Result	RL	Units
alpha-BHC	ND	0.0050	mg/Kg
beta-BHC	ND	0.0050	mg/Kg
gamma-BHC	ND	0.0050	mg/Kg
delta-BHC	ND	0.0050	mg/Kg
Heptachlor	ND	0.0050	mg/Kg
Aldrin	ND	0.0050	mg/Kg
Heptachlor epoxide	ND	0.0050	mg/Kg
Endosulfan I	ND	0.0050	mg/Kg
Dieldrin	ND	0.0050	mg/Kg
4,4'-DDE	ND	0.0050	mg/Kg
Endrin	ND	0.0050	mg/Kg
Endosulfan II	ND	0.0050	mg/Kg
Endosulfan sulfate	ND	0.0050	mg/Kg
4,4'-DDD	ND	0.0050	mg/Kg
Endrin aldehyde	ND	0.0050	mg/Kg
Endrin ketone	ND	0.0050	mg/Kg
4,4'-DDT	ND	0.0050	mg/Kg
Methoxychlor	ND	0.010	mg/Kg
Toxaphene	ND	0.10	mg/Kg
Chlordane (Technical)	ND	0.050	mg/Kg

528714-003 Surrogate	%REC	Limits
TCMX	88	23-120
Decachlorobiphenyl	111	24-120

**Legend**
**ND:** Not Detected

**RL:** Reporting Limit

## Organochlorine Pesticides

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** B4

**Batch#:** 366075

**Prep:** EPA 3546

**Lab ID:** 528714-004

**Sampled:** 03/12/25

**Analysis:** EPA 8081A

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** MES

**Basis:** as received

**Prepared:** 03/16/25

**DF:** 1.010

**Analyzed:** 03/17/25

528714-004 Analyte	Result	RL	Units
alpha-BHC	ND	0.0051	mg/Kg
beta-BHC	ND	0.0051	mg/Kg
gamma-BHC	ND	0.0051	mg/Kg
delta-BHC	ND	0.0051	mg/Kg
Heptachlor	ND	0.0051	mg/Kg
Aldrin	ND	0.0051	mg/Kg
Heptachlor epoxide	ND	0.0051	mg/Kg
Endosulfan I	ND	0.0051	mg/Kg
Dieldrin	ND	0.0051	mg/Kg
4,4'-DDE	ND	0.0051	mg/Kg
Endrin	ND	0.0051	mg/Kg
Endosulfan II	ND	0.0051	mg/Kg
Endosulfan sulfate	ND	0.0051	mg/Kg
4,4'-DDD	ND	0.0051	mg/Kg
Endrin aldehyde	ND	0.0051	mg/Kg
Endrin ketone	ND	0.0051	mg/Kg
4,4'-DDT	ND	0.0051	mg/Kg
Methoxychlor	ND	0.010	mg/Kg
Toxaphene	ND	0.10	mg/Kg
Chlordane (Technical)	ND	0.051	mg/Kg

528714-004 Surrogate	%REC	Limits
TCMX	80	23-120
Decachlorobiphenyl	106	24-120

**Legend**
**ND:** Not Detected

**RL:** Reporting Limit

## Organochlorine Pesticides: Batch QC

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Type:** BLANK

**Batch#:** 366075

**Analysis:** EPA 8081A

**Lab ID:** QC1239468

**Prepared:** 03/16/25

**Analyst:** KLR

**Matrix:** Soil

**Analyzed:** 03/17/25

**DF:** 1.000

**Prep:** EPA 3546

QC1239468 Analyte	Result	RL	Units
alpha-BHC	ND	0.0050	mg/Kg
beta-BHC	ND	0.0050	mg/Kg
gamma-BHC	ND	0.0050	mg/Kg
delta-BHC	ND	0.0050	mg/Kg
Heptachlor	ND	0.0050	mg/Kg
Aldrin	ND	0.0050	mg/Kg
Heptachlor epoxide	ND	0.0050	mg/Kg
Endosulfan I	ND	0.0050	mg/Kg
Dieldrin	ND	0.0050	mg/Kg
4,4'-DDE	ND	0.0050	mg/Kg
Endrin	ND	0.0050	mg/Kg
Endosulfan II	ND	0.0050	mg/Kg
Endosulfan sulfate	ND	0.0050	mg/Kg
4,4'-DDD	ND	0.0050	mg/Kg
Endrin aldehyde	ND	0.0050	mg/Kg
Endrin ketone	ND	0.0050	mg/Kg
4,4'-DDT	ND	0.0050	mg/Kg
Methoxychlor	ND	0.010	mg/Kg
Toxaphene	ND	0.10	mg/Kg
Chlordane (Technical)	ND	0.050	mg/Kg

QC1239468 Surrogate	%REC	Limits
TCMX	73	23-120
Decachlorobiphenyl	127 *	24-120

**Legend**

\*: Value is outside QC limits

**ND:** Not Detected

**RL:** Reporting Limit

## Organochlorine Pesticides: Batch QC

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Type:** LCS

**Batch#:** 366075

**Analysis:** EPA 8081A

**Lab ID:** QC1239469

**Prepared:** 03/16/25

**Analyst:** MES

**Matrix:** Soil

**Analyzed:** 03/18/25

**DF:** 1.000

**Prep:** EPA 3546

QC1239469 Analyte	Spiked	Result	%REC	Limits	Units	Qual
alpha-BHC	0.05000	0.04489	90	22-129	mg/Kg	
beta-BHC	0.05000	0.04884	98	28-125	mg/Kg	#
gamma-BHC	0.05000	0.04660	93	22-128	mg/Kg	
delta-BHC	0.05000	0.04838	97	24-131	mg/Kg	
Heptachlor	0.05000	0.04571	91	18-124	mg/Kg	#
Aldrin	0.05000	0.04230	85	23-120	mg/Kg	
Heptachlor epoxide	0.05000	0.04464	89	26-120	mg/Kg	#
Endosulfan I	0.05000	0.04612	92	25-126	mg/Kg	
Dieldrin	0.05000	0.04593	92	23-124	mg/Kg	
4,4'-DDE	0.05000	0.04678	94	28-121	mg/Kg	
Endrin	0.05000	0.04926	99	25-127	mg/Kg	#
Endosulfan II	0.05000	0.04621	92	29-121	mg/Kg	
Endosulfan sulfate	0.05000	0.04462	89	30-121	mg/Kg	
4,4'-DDD	0.05000	0.04248	85	26-120	mg/Kg	
Endrin aldehyde	0.05000	0.04116	82	10-120	mg/Kg	
Endrin ketone	0.05000	0.04833	97	28-125	mg/Kg	
4,4'-DDT	0.05000	0.04776	96	22-125	mg/Kg	
Methoxychlor	0.05000	0.05148	103	28-130	mg/Kg	#

**QC1239469 Surrogate**
**%REC**
**Limits**

TCMX	81	23-120
Decachlorobiphenyl	83	24-120

**Legend**
**#:** CCV drift outside limits; average CCV drift within limits per method  
**requirements**

## Organochlorine Pesticides: Batch QC

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** B2

**Basis:** as received

**Prepared:** 03/16/25

**Type:** MS

**DF:** 1.020

**Analyzed:** 03/17/25

**MSS Lab ID:** 528715-002

**Batch#:** 366075

**Prep:** EPA 3546

**Lab ID:** QC1239470

**Sampled:** 03/12/25

**Analysis:** EPA 8081A

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** MES

QC1239470 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	Qual
alpha-BHC	<0.001967	0.05102	0.04158	82	46-120	mg/Kg	
beta-BHC	<0.001939	0.05102	0.04919	96	41-120	mg/Kg	
gamma-BHC	<0.001692	0.05102	0.04388	86	41-120	mg/Kg	
delta-BHC	<0.002388	0.05102	0.04458	87	38-123	mg/Kg	
Heptachlor	<0.001928	0.05102	0.03924	77	39-120	mg/Kg	
Aldrin	<0.002282	0.05102	0.04058	80	34-120	mg/Kg	
Heptachlor epoxide	<0.002108	0.05102	0.04366	86	43-120	mg/Kg	
Endosulfan I	<0.002232	0.05102	0.04606	90	45-120	mg/Kg	
Dieldrin	0.003343	0.05102	0.04785	87	45-120	mg/Kg	
4,4'-DDE	<0.003174	0.05102	0.05149	101	34-120	mg/Kg	
Endrin	<0.002021	0.05102	0.04601	90	40-120	mg/Kg	
Endosulfan II	<0.002021	0.05102	0.04904	96	41-120	mg/Kg	
Endosulfan sulfate	<0.003202	0.05102	0.04058	80	42-120	mg/Kg	#
4,4'-DDD	<0.001578	0.05102	0.04834	95	41-120	mg/Kg	
Endrin aldehyde	<0.003562	0.05102	0.03564	70	30-120	mg/Kg	
Endrin ketone	<0.002065	0.05102	0.04479	88	45-120	mg/Kg	#
4,4'-DDT	<0.002039	0.05102	0.04675	92	35-127	mg/Kg	
Methoxychlor	<0.003800	0.05102	0.04865	95	42-136	mg/Kg	
<b>QC1239470 Surrogate</b>				<b>%REC</b>	<b>Limits</b>		
TCMX				70	23-120		
Decachlorobiphenyl				90	24-120		

## Organochlorine Pesticides: Batch QC

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** B2

**Basis:** as received

**Prepared:** 03/16/25

**Type:** MSD

**DF:** 1.000

**Analyzed:** 03/17/25

**MSS Lab ID:** 528715-002

**Batch#:** 366075

**Prep:** EPA 3546

**Lab ID:** QC1239471

**Sampled:** 03/12/25

**Analysis:** EPA 8081A

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** MES

QC1239471 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
alpha-BHC	0.05000	0.04454	89	46-120	mg/Kg	9	30	
beta-BHC	0.05000	0.05570	111	41-120	mg/Kg	14	30	
gamma-BHC	0.05000	0.04805	96	41-120	mg/Kg	11	30	
delta-BHC	0.05000	0.05432	109	38-123	mg/Kg	22	30	
Heptachlor	0.05000	0.04458	89	39-120	mg/Kg	15	30	
Aldrin	0.05000	0.04711	94	34-120	mg/Kg	17	30	
Heptachlor epoxide	0.05000	0.05092	102	43-120	mg/Kg	17	30	
Endosulfan I	0.05000	0.05551	111	45-120	mg/Kg	21	30	
Dieldrin	0.05000	0.06061	115	45-120	mg/Kg	25	30	
4,4'-DDE	0.05000	0.06712	134 *	34-120	mg/Kg	28	30	
Endrin	0.05000	0.05992	120	40-120	mg/Kg	28	30	
Endosulfan II	0.05000	0.05998	120	41-120	mg/Kg	22	30	
Endosulfan sulfate	0.05000	0.05178	104	42-120	mg/Kg	26	30	#
4,4'-DDD	0.05000	0.06130	123 *	41-120	mg/Kg	26	30	
Endrin aldehyde	0.05000	0.04451	89	30-120	mg/Kg	24	30	
Endrin ketone	0.05000	0.05636	113	45-120	mg/Kg	25	30	#
4,4'-DDT	0.05000	0.06051	121	35-127	mg/Kg	28	30	
Methoxychlor	0.05000	0.06065	121	42-136	mg/Kg	24	30	

**QC1239471 Surrogate**
**%REC**
**Limits**

TCMX	74	23-120
Decachlorobiphenyl	112	24-120

## Legend

#: CCV drift outside limits; average CCV drift within limits per method requirements

\*: Value is outside QC limits

RPD: Relative Percent Difference

## Metals Analytical Report

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** B1

**DF:** 1.000

**Analyzed:** 03/14/25

**Type:** SAMPLE

**Batch#:** 365982

**Prep:** EPA 3050B

**Lab ID:** 528714-001

**Sampled:** 03/12/25

**Analysis:** EPA 6010B

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** CAP

**Basis:** as received

**Prepared:** 03/14/25

**528714-001 Analyte**
**Result**    **RL**    **Units**
**Arsenic**
**3.4**    1.0    mg/Kg

**Lead**
**8.0**    1.0    mg/Kg

**Field ID:** B2

**DF:** 0.9804

**Analyzed:** 03/14/25

**Type:** SAMPLE

**Batch#:** 365982

**Prep:** EPA 3050B

**Lab ID:** 528714-002

**Sampled:** 03/12/25

**Analysis:** EPA 6010B

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** CAP

**Basis:** as received

**Prepared:** 03/14/25

**528714-002 Analyte**
**Result**    **RL**    **Units**
**Arsenic**
**4.4**    0.98    mg/Kg

**Lead**
**7.0**    0.98    mg/Kg

**Field ID:** B3

**DF:** 0.9615

**Analyzed:** 03/14/25

**Type:** SAMPLE

**Batch#:** 365982

**Prep:** EPA 3050B

**Lab ID:** 528714-003

**Sampled:** 03/12/25

**Analysis:** EPA 6010B

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** CAP

**Basis:** as received

**Prepared:** 03/14/25

**528714-003 Analyte**
**Result**    **RL**    **Units**
**Arsenic**
**6.3**    0.96    mg/Kg

**Lead**
**7.7**    0.96    mg/Kg

**Field ID:** B4

**DF:** 0.9901

**Analyzed:** 03/14/25

**Type:** SAMPLE

**Batch#:** 365982

**Prep:** EPA 3050B

**Lab ID:** 528714-004

**Sampled:** 03/12/25

**Analysis:** EPA 6010B

**Matrix:** Soil

**Received:** 03/13/25

**Analyst:** CAP

**Basis:** as received

**Prepared:** 03/14/25

**528714-004 Analyte**
**Result**    **RL**    **Units**
**Arsenic**
**2.4**    0.99    mg/Kg

**Lead**
**5.7**    0.99    mg/Kg

**Type:** BLANK

**Batch#:** 365982

**Analysis:** EPA 6010B

**Lab ID:** QC1239117

**Prepared:** 03/14/25

**Analyst:** CAP

**Matrix:** Soil

**Analyzed:** 03/14/25

**DF:** 1.000

**Prep:** EPA 3050B

**QC1239117 Analyte**
**Result**    **RL**    **Units**
**Arsenic**
**ND**    1.0    mg/Kg

**Lead**
**ND**    1.0    mg/Kg

## Metals Analytical Report

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**Lab #:** 528714**Project#:** STANDARD**Client:** Silicon Valley Environmental Group**Location:** 1001 S. Wolfe Rd.

Legend

ND: Not Detected

RL: Reporting Limit

**Metals Analytical Report: Batch QC****Lab #:** 528714**Project#:** STANDARD**Client:** Silicon Valley Environmental Group**Location:** 1001 S. Wolfe Rd.**Type:** LCS**Batch#:** 365982**Analysis:** EPA 6010B**Lab ID:** QC1239118**Prepared:** 03/14/25**Analyst:** CAP**Matrix:** Soil**Analyzed:** 03/14/25**DF:** 1.000**Prep:** EPA 3050B

QC1239118 Analyte	Spiked	Result	%REC	Limits	Units
Arsenic	100.0	101.5	101	80-120	mg/Kg
Lead	100.0	104.9	105	80-120	mg/Kg

## Metals Analytical Report: Batch QC

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** ZZZZZZZZZZ

**Basis:** as received

**Prepared:** 03/14/25

**Type:** MS

**DF:** 0.9804

**Analyzed:** 03/14/25

**MSS Lab ID:** 528816-001

**Batch#:** 365982

**Prep:** EPA 3050B

**Lab ID:** QC1239119

**Sampled:** 03/14/25

**Analysis:** EPA 6010B

**Matrix:** Soil

**Received:** 03/14/25

**Analyst:** CAP

**QC1239119 Analyte**
**MSS Result**
**Spiked**
**Result**
**%REC**
**Limits**
**Units**

Arsenic

2.101

98.04

101.0

101

75-125

mg/Kg

Lead

122.0

98.04

213.5

93

75-125

mg/Kg

**Field ID:** ZZZZZZZZZZ

**Basis:** as received

**Prepared:** 03/14/25

**Type:** MSD

**DF:** 0.9524

**Analyzed:** 03/14/25

**MSS Lab ID:** 528816-001

**Batch#:** 365982

**Prep:** EPA 3050B

**Lab ID:** QC1239120

**Sampled:** 03/14/25

**Analysis:** EPA 6010B

**Matrix:** Soil

**Received:** 03/14/25

**Analyst:** CAP

**QC1239120 Analyte**
**Spiked**
**Result**
**%REC**
**Limits**
**Units**
**RPD**
**Lim**

Arsenic

95.24

98.76

101

75-125

mg/Kg

1

35

Lead

95.24

223.4

106

75-125

mg/Kg

6

20

Legend

**RPD:** Relative Percent Difference

## Metals Analytical Report: Batch QC

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** ZZZZZZZZZZ

**Basis:** as received

**Analyzed:** 03/14/25

**Type:** Post Digest Spike

**DF:** 0.9524

**Prep:** EPA 3050B

**MSS Lab ID:** 528816-001

**Batch#:** 365982

**Analysis:** EPA 6010B

**Lab ID:** QC1239121

**Sampled:** 03/14/25

**Analyst:** CAP

**Matrix:** Soil

**Received:** 03/14/25

QC1239121 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic	2.101	95.24	94.58	97	75-125	mg/Kg
Lead	122.0	95.24	210.3	93	75-125	mg/Kg

## Metals Analytical Report: Batch QC

**Lab #:** 528714

**Project#:** STANDARD

**Client:** Silicon Valley Environmental Group

**Location:** 1001 S. Wolfe Rd.

**Field ID:** ZZZZZZZZZZ

**Basis:** as received

**Analyzed:** 03/14/25

**Type:** Serial Dilution

**DF:** 4.762

**Prep:** EPA 3050B

**MSS Lab ID:** 528816-001

**Batch#:** 365982

**Analysis:** EPA 6010B

**Lab ID:** QC1239166

**Sampled:** 03/14/25

**Analyst:** CAP

**Matrix:** Soil

**Received:** 03/14/25

QC1239166 Analyte	MSS Result	MSS RL	Result	RL	Units	% Diff	Lim
<b>Arsenic</b>	2.101	0.9524	<b>3.000 J</b>	4.762	mg/Kg	NC	10
<b>Lead</b>	122.0	0.9524	<b>125.2</b>	4.762	mg/Kg	3	10

Legend

**J:** Estimated value

**NC:** Not Calculated

**RL:** Reporting Limit