

Date: June 8, 2021
Project No.: 336-10-3

Prepared For: Mr. Mark Lazzarini
DAL PROPERTIES, LLC
255 West Julian Street, Suite 502
San Jose, CA 95126

Re: **Soil and Soil Vapor Quality Evaluation**
Camden Avenue and Malpas Drive
San Jose, CA

Dear Mr. Lazzarini:

Cornerstone Earth Group, Inc. (Cornerstone) is pleased to present this letter summarizing the results of our Soil and Soil Vapor Quality Evaluation at the 1-acre parcel located southeast of the Camden Avenue and Malpas Drive intersection (APN 567-26-014) in San Jose, California (Site, Figures 1, 2 and 3). This work was performed for Dal Properties, LLC (DAL) in accordance with our February 8, and April 8, 2021 Agreements (Agreements).

Project Background

The Site consists of undeveloped land that is bound by Camden Avenue to the west, Guadalupe River to the east, residential development to the north, and undeveloped land to the south. Groundwater gradients generally trend to the west relative to the Site. We understand Dal is planning to redevelop the Site for residential purposes.

Based on our Phase I Environmental Site Assessment (ESA) dated June 5, 2020, the Site was used mainly for agricultural purposes until the early 1980s. The Site has since remained undeveloped until the present. A dry cleaning business was identified at 5837 Camden Avenue (Tenant Space E), located across Camden Avenue to the west of the Site. This dry cleaning business is in the approximate up-gradient to cross-gradient groundwater flow direction relative to the Site.

Purpose

This letter summarizes the soil and soil vapor quality investigation; its purpose is to evaluate potential agricultural and dry-cleaning impacts to the Site. The results of the subsurface investigation presented in this letter are intended for the use in evaluating these potential impacts to the proposed single family home development.

Soil and Soil Vapor Sampling

Pre-Field Activities

Prior to performing field work, we marked our boring locations three working days prior to beginning our explorations as required by law, and notified the regional utility notification center – Underground Service Alert (USA), so that public and private utilities can be identified and

marked at the ground surface. We marked our locations using wooden stakes with white flagging, as requested by USA. Utility operators/owners marked their utilities at the ground surface prior to the start of work. To reduce the risk of damaging unidentified underground utilities during drilling, we contracted a private utility locator.

Cornerstone prepared a Health and Safety Plan (HSP) for personnel conducting the subsurface investigation and earthwork operations at the Site; field staff was required to complete a 40-hour HAZWOPER training course (29 CFR 1910.120 (e)), including respirator and personal protective equipment training. The minimum level of protection for workers performing Site investigation activities was Level D.

Exploratory Borings

On February 24 and 26, 2021, Cornerstone's field geologist directed a subsurface investigation to advanced two 15-foot exploratory borings for soil vapor sample collection and eight 2-foot borings for soil sample collection. Soil vapor probe SV-1 was located in the northwest corner of the Site. Soil vapor probe SV-2 was located approximately in line with the dry cleaning business located in Tenant Space E. Soil borings EB-3 through EB-10 were located randomly across the Site. The exploratory borings are shown on Figures 2 and 3.

Probes SV-1 and SV-2 were advanced using direct push technology equipped with a Dual Wall Sampling System and were continuously logged in general accordance with the Unified Soil Classification System (ASTM D-2487). The Dual Wall Sampling System is comprised of two main components: an exterior steel casing and an inner sample barrel. The outer casing has a 2-inch outer diameter (OD) and a 1.5-inch inner diameter (ID). The sample barrel is 5 feet in length with a 1.375 inch outside diameter (OD) and a 1-inch inner diameter (ID). The Dual Wall sample barrel was loaded with a 5-foot acetate liner and installed inside the outer casing. The outer drive casing and inner sample barrel was hydraulically pushed to a depth of approximately 5 feet. As these tools were advanced, the inner sampling barrel collected the soil core sample. This sampler was then retrieved while the outer casing remained in place, protecting the integrity of the hole. A new sampler then was lowered into place and advanced another 5 feet to collect the next soil sample. This process continued until the desired depth of 15 feet was reached.

Borings EB-3 through EB-10 were advanced using hand sampling equipment (hand auger) to an approximate depth of 2 feet.

On May 4, 2021, Cornerstone re-mobilized to the Site and advanced seven additional 15-foot borings to construct probes SVP-1 through SVP-7 for soil vapor sample collection, using direct push technology as described above. The additional soil vapor samples were advanced within the approximate footprint of the proposed single family homes and are shown on Figure 3.

Subsurface Materials

Cornerstone's field geologist logged boring SV-1, SV-2, and EB-3 through EB-10 in general accordance with the Unified Soil Classification System (USCS) and recorded observations on the boring logs attached to this letter. The upper approximately foot of surface materials consisted of reworked native soil, characterized as brown sandy clay with some fine subangular gravels. The reworked native soil was underlain by a layer of light brown sandy clay with some fine to coarse subangular gravels and localized red mottles that extends to approximately 10 to 12 feet. A light brown clay with sand and trace angular gravel is present to the maximum depth

explored of 15 feet. Groundwater was not encountered during this investigation. Boring logs are attached to this letter.

Organic Vapor Monitory (OVM) Readings

Soil samples retrieved from borings SV-1, SV-2, and EB-2 through EB-10 were monitored with a MiniRAE 3000 Organic Vapor Meter (OVM) at approximately 2-foot intervals to record volatile organic compound (VOC) vapors. Organic vapor readings ranging from typical background concentrations (less than 0 part per million vapor [ppm_v]) to 0.1 ppm_v. No discolored or stained soil was observed in the soil samples.

Vapor Probe Construction

Multi-depth subsurface probes were installed at SV-1, SV-2; single depth subsurface probes were installed at SVP-1 through SVP-7. The multi-depth subsurface probes constructed at SV-1 and SV-2 consisted of a stainless-steel expendable vapor tip installed at approximate depths of 5 and 15 feet below surface grade with screens affixed to stainless steel tubing; the single depth probes consisted of a stainless-steel expendable vapor tip installed at an approximate depth of 15 feet. The probes were constructed by first placing approximately 2 inches of coarse aquarium sand into the bottom of the borehole using a tremie pipe. The stainless-steel tip and tubing were lowered into the borehole via a tremie pipe. Additional sand is then placed in the borehole via tremie to create an approximately 1-foot sand pack interval around the vapor tip. Approximately 1 foot of granular bentonite (Benseal™) was placed on top of the sand pack via the tremie pipe. Bentonite “gel” was placed via tremie pipe on top of the dry granular bentonite to the bottom depth of the upper-sand pack hosting the shallower vapor tip. Prior to installing the upper-sand pack, an approximately 1-foot layer of dry granular bentonite was placed on top of the hydrated bentonite (using a tremie pipe) to help prevent settling of the upper-sand pack. The upper vapor point screen interval was constructed similar to the lower and the remainder of the borehole was sealed to the surface utilizing the hydrated bentonite procedures. The stainless-steel tubing was labeled with depth of placement and capped utilizing a vapor tight Swagelok valve set in the “off” position. The single depth probes were constructed similarly to the multi-depth probes with bentonite or bentonite gel extending from the sand pack to the ground surface.

Soil Sample Collection and Analysis

Our field geologist collected soil samples from boring locations EB-3 to EB-10 from the upper approximate ½ foot and from 1½ feet to 2 feet. Soil samples were collected in clean (unused) stainless-steel liners, ends of the soil samples were covered in a Teflon film, fitted with plastic end caps, and labeled with a unique sample identification number. Soil samples were placed in an ice-chilled cooler and transported to a state certified laboratory under chain of custody control.

Selected soil samples were analyzed on a dry-weight basis for organochlorine pesticides (OCPs) by EPA Test Method 8081 and pesticide-related metals arsenic, lead, and mercury by EPA Test Method 6010/7471. Three soil samples were also analyzed for asbestos using polarized light microscopy (PLM) with a California Air Resources Board (CARB) 435 prep method. Based on initial sample results, deeper samples collected from borings EB-3 and EB-5 and held by the laboratory also were analyzed for OCPs.

Soil Vapor Sample Collection and Analysis

On February 26, and May 19, 2021, the vapor probes were sampled by Cornerstone's field geologist, a licensed Professional Geologist. Vapor sampling was performed at least 48 hours after completing well construction activities on February 24, 2021. The tubing emanating from the vapor points was affixed to a sample shutoff valve in the "off" position during the time needed to reach equilibrium (at least 2 hours). A 167 milliliters-per-minute flow regulator inclusive of particulate filter was fitted to the shutoff valve and the other end to a "T" fitting. One end of the "T" was connected to the sampling summa canister. The other end of the "T" was affixed to a digital vacuum gauge and a 1-liter summa canister utilized for purging.

A minimum 10-minute vacuum tightness test was performed on the manifold and connections by opening and closing the 6-liter purge canister valve and applying and monitoring a vacuum on the vacuum gauge. The sample shut-off valve on the downhole side of the sampling manifold remained in the "off" position. When gauge vacuum had maintained for at least 10 minutes without any noticeable decrease (less than approximately 0.1 inches of mercury (Hg) for properly connected fittings), purging began. The downhole shut off valve was opened, and three pore volumes were removed utilizing the purging summa. Purge volumes of vapor were removed and verified by the calculated pressure drop in the 6-liter summa canister utilized for purging. The purge volume was calculated based on the length and inner diameter of the sampling probe and the connected sampling tubing and equipment. Assuming the vapor probe was properly sealed, the borehole sand pack vapor space equilibrated with the surrounding vapors following the 48-hour equilibration period. Thus, the sand pack vapor space was not included in the purge volume calculation.

Isopropyl alcohol was utilized as a leak detection compound during sampling by applying between 8 to 10 drops to cotton gauze and placing the moistened gauze near the borehole. Sampling began by opening the summa canister valve. Immediately upon opening the sampling valve, a shroud was placed over and enclosed the atmosphere of the borehole and entire sampling train including all connections.

Sampling continued until the vacuum gauge indicated approximately 10.35 inches of Hg remaining. A datalogging OVM utilized during sampling to monitor the atmosphere inside the shroud through a bulkhead fitting. The logged data (at minimum 1-minute intervals) was corrected to parts per million by volume isopropyl alcohol concentrations and utilized to evaluate the integrity of the sampling train. To confirm the isopropyl alcohol atmosphere, one confirmation sample was collected from the shroud atmosphere through the sampling port of the OVM.

The four soil vapor samples were analyzed for dry cleaning chemical tetrachloroethene (PCE) and its breakdown products Trichlorethylene (TCE), cis-1,2-dichlorethene (cDCE), trans-1,2-dichlorethene (tDCE), 1,1-dichlorethene (DCE), and vinyl chloride (VC) by EPA Test Method TO-15. In addition, one air sample was collected from the shroud atmosphere and analyzed for isopropyl alcohol.

Discussion of Analytical Results

Data summary tables, analytical data sheets, and chain of custody documentation are attached to this letter. A summary of the analytical results is provided below.

Soil Analytical Results

Cornerstone compared detected contaminants of potential concern (except arsenic, discussed below) to the Tier 1 Environmental Screening Levels (ESLs, Water Board, 2019). The Tier 1 ESLs are the more conservative screening levels used to evaluate shallow soil for unrestricted reuse. Exceedance of a Tier 1 ESL does not necessarily indicate contamination, but rather indicates that the soil may not be acceptable for unrestricted reuse. In these cases, soil may require landfill disposal. Other, less conservative screening levels, such as residential direct exposure ESLs, may be applicable for evaluating on- of off-Site reuse. An ESL for alpha and gamma-chlordane has not been established, and the ESL for total chlordane has been used for comparison for these compounds.

In some cases, such as for arsenic, naturally occurring background parameters are present at concentrations that exceed Tier 1 ESLs. The Water Board *2019 Environmental Screening Level User Guide* indicates that background concentrations typically are evaluate on a site-specific basis, and the guidance provides references for regional background metal studies. Based on this guidance, the background concentrations used for comparison were 11 milligrams per kilogram (mg/kg) for arsenic (Duverge, 2011)¹.

The soil results for metals and OCPs also were compared to Total Threshold Limit Concentration (TTLC) criteria established in Title 22 California Code of Regulations. The TTLC is the total concentration at which a solid waste is considered hazardous per Title 22 California Code of Regulations and is pertinent when evaluating waste disposal options.

Asbestos results were compared to the California Air Resources Board (CARB) Asbestos Toxic Control Measure (ATCM) regulatory threshold of 0.25 percent for construction and grading projects.

A summary of the soil data is provided below:

- 4,4' – Dichlorodiphenyldichloroethylene (DDE) was detected in 9 of 10 samples analyzed at concentrations ranging from 0.0094 mg/kg to 0.62 mg/kg. The concentration detected at EB-5 (0-0.5) of 0.62 mg/kg exceeded the Tier 1 ESL of 0.33 mg/kg, but this concentration is below its residential direct exposure ESL of 1.8 mg/kg. Deeper samples collected from borings EB-3 and EB-5 revealed 4,4' – DDE at concentrations of 0.083 mg/kg and 0.19 mg/kg, respectively.
- 4,4' – Dichlorodiphenyltrichloroethane (DDT) was detected in 9 of 10 soil samples analyzed at concentrations ranging from 0.004 mg/kg to 0.38 mg/kg. The detected concentrations exceeded the Tier 1 ESL of 0.0011 mg/kg, but these concentrations are below the residential direct exposure ELS of 1.9 mg/kg. Deeper samples collected from borings EB-3 and EB-5 revealed 4,4' – DDT at concentrations of 0.083 mg/kg and 0.19 mg/kg, respectively.

- Total DDT, which is the sum of DDE, DDD and DDT, was detected in the shallow soil sample collected from boring EB-5 at a concentration of 1 mg/kg; this concentration equals its TTLC of 1 mg/kg. Deeper soil samples collected from borings EB-3 and EB-5 revealed total DDT at 0.0918 mg/kg and 0.32 mg/kg, respectively. The 95 percent upper confidence limit¹ (UCL) of 0.709 mg/kg was calculated using USEPA ProUCL Version 5.1 statistical software (USEPA, 2015).
- Alpha and gamma-Chlordane were detected in soil collected from boring EB-8 at concentrations of 0.12 mg/kg and 0.15 mg/kg, respectively. The detected concentrations are above the Tier 1 ESL for total chlordane of 0.0085 mg/kg but are below the residential direct exposure ESL of 0.48 mg/kg.
- Arsenic was detected in all the samples analyzed at concentrations ranging from 4 mg/kg to 8.2 mg/kg, which are below its natural background concentration of 11 mg/kg (Duverge, 2011).
- Lead was detected in all the samples analyzed at concentrations ranging from 6.3 mg/kg to 36 mg/kg. The greatest concentration of lead detected was from the soil sample collected from boring EB-10 (0-0.5) was above the Tier 1 ESL of 32 mg/kg but is below its residential direct exposure ESL of 80 mg/kg.
- Mercury was detected in all the samples analyzed at concentrations ranging from 0.054 mg/kg to 0.48 mg/kg, which are below its Tier 1 ESL of 13 mg/kg.
- Asbestos was not detected above the laboratory reporting limit of 0.25% in the three samples analyzed.

Soil Vapor

The analytical results of the soil vapor samples were compared to the Tier 1 Environmental Screening Levels (ESLs) established by the Water Board (January 2019).

- PCE was detected in 10 of 11 soil vapor samples at concentrations ranging from 7 micrograms per meter cubed ($\mu\text{g}/\text{m}^3$) to 29 $\mu\text{g}/\text{m}^3$. The detected concentration at probe SVP-3 of 29 $\mu\text{g}/\text{m}^3$ at 15 feet exceeds the Tier 1 ESL for PCE of 15 $\mu\text{g}/\text{m}^3$.
- TCE was detected in 3 of 11 soil vapor samples at concentrations ranging from 4.2 $\mu\text{g}/\text{m}^3$ to 22 $\mu\text{g}/\text{m}^3$. The greatest concentration was detected at probe SV-2 from 15 feet, exceeding the Tier 1 ESL of 16 $\mu\text{g}/\text{m}^3$.

¹ Because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent UCL of the arithmetic mean can be used for this variable. The 95 UCL was calculated for total DDT using USEPA's ProUCL software Version 5.1 (USEPA, 2016). The 95 percent UCL provides reasonable confidence that the true site average concentration will not be underestimated and accounts for uncertainties due to limited sampling data. The 95 percent UCL of a mean is defined as a value that, when calculated repeatedly for randomly drawn subsets of site data, equals or exceeds the true mean 95 percent of the time. The 95 percent UCL of the mean provides a conservative estimate of the average (or mean) concentration. A chemical contaminant is not considered to be present at a level of concern if the calculated 95 percent UCL is less than its respective regulatory threshold concentration (USEPA, 2007).

Soil Vapor Sample Integrity

At soil vapor probes SV-1, SV-2, and SVP-1 through SVP-7, a shroud was placed over and enclosed the atmosphere of the borehole and the entire sampling train including all connections immediately upon opening the valve to the 1-liter sample Summa canister for sample integrity evaluation purposes. Isopropyl alcohol (2-propanol, 91 percent) was utilized as a leak detection compound during sampling by applying between eight and 15 drops to a cotton gauze and placing the moistened gauze near the borehole beneath the shroud. The concentration of isopropyl alcohol was monitored during sampling with a data logging organic vapor meter (OVM). 2-propanol was detected in the soil vapor sample collected from SVP-2 at a concentration of 91 $\mu\text{g}/\text{m}^3$.

To help confirm the sampling trains were sufficiently tight and the soil vapor data is representative of subsurface conditions, confirmation samples of the shroud atmosphere was collected from the exhaust port of the OVM and into a 1-liter summa canister during sampling at subsurface soil vapor location SV-1 (5 feet) collected on February 26, 2021, and SVP-2 collected on May 19, 2021. Laboratory analyses of the shroud atmosphere samples detected isopropyl alcohol (*i.e.*, 2-propanol) at 160,000 $\mu\text{g}/\text{m}^3$ and 110,000 $\mu\text{g}/\text{m}^3$ respectively. During the same sampling time, 2-propanol levels within the shroud atmosphere were measured by the OVM to range from 20,644 $\mu\text{g}/\text{m}^3$ to 61,933 $\mu\text{g}/\text{m}^3$ for SV-1, and 22,709 $\mu\text{g}/\text{m}^3$ to 106,319 $\mu\text{g}/\text{m}^3$ for SVP-2 with average concentrations of approximately 50,888 $\mu\text{g}/\text{m}^3$ and 57,976 $\mu\text{g}/\text{m}^3$, respectively. The OVM appeared to underestimate the shroud atmosphere.

Assuming the concentration of 2-propanol in soil vapor sample SV-1-5 was 12 $\mu\text{g}/\text{m}^3$ (reporting limit) and the detected concentration within the shroud atmosphere of 160,000 $\mu\text{g}/\text{m}^3$, sample SV-1-5 would have a leakage rate of less than 0.0075 percent (%). This data indicates that the sample trains for samples collected on February 26, 2021 were sufficiently tight, and no significant leakage occurred.

Assuming the concentration of 2-propanol in soil vapor sample SVP-2 was 91 $\mu\text{g}/\text{m}^3$ and the detected concentration within the shroud atmosphere of 110,000 $\mu\text{g}/\text{m}^3$, sample SVP-1 would have a leakage rate of less than 0.083%. This data indicates that the sample trains for samples collected on May 19, 2021 were sufficiently tight, and no significant leakage occurred.

Conclusions and Recommendations

To help evaluate the potential impact to the on-Site soil from past agricultural use, eight borings were advanced at the Site and soil samples were collected from the upper approximate $\frac{1}{2}$ foot of soil and approximately $1\frac{1}{2}$ to 2 feet below the shallower sample. Laboratory analyses of the soil samples generally did not detect OCPs above their respective Tier 1 ESL. 4,4'-DDE was detected in a surface sample from boring EB-5 more than its Tier 1 ESL, but below its residential direct exposure ESL. Total DDT was detected above its TTLC of 1 mg/kg in the shallow soil samples collected at boring EB-5. Based on this data, the soil in this area may be classifiable as California hazardous waste if disposed. A deeper sample from $1\frac{1}{2}$ to 2 feet was collected at this location and analyzed for OCPs, which laboratory testing did not detect total DDT above its TTLC. This indicates that the pesticide impacted soil appears to be limited to the upper $\frac{1}{2}$ foot of soil. The calculated 95 percent UCL for total DDT for the Site is 0.709 mg/kg indicating that the issue is not likely a Sitewide concern. If excess soil is produced during grading operations, we recommend that the soil be profiled to evaluate appropriate soil disposal alternatives.

Due to the Site's proximity to the dry cleaner located at 5837 Camden Avenue, nine soil vapor probes were advanced on the western border of the Site and within each of the proposed building footprints to assess if dry cleaning chemicals are present in the soil vapor below the Site. Dual depth soil vapor wells were constructed at depths of 5 and 15 feet at probes SV-1 and SV-2. Single depth wells (approximate depth of 15 feet) were constructed at probes SVP-1 through SVP-7. Soil vapor samples were collected at each depth and analyzed for the dry cleaning chemical PCE and its breakdown products. PCE and TCE were detected. The detected concentration of PCE at probe SVP-3 exceeded its Tier 1 ESL. Additionally, TCE was detected at concentrations exceeding its Tier 1 ESL in probe SV-2 (approximate depth of 15 feet).

The detected concentrations of PCE and TCE below the Site indicated a moderate risk of vapor intrusion occurring in the proposed single-family homes. Vapor intrusion is the movement of chemical vapors from contaminated groundwater or soil vapor into a nearby building. Vapors primarily enter through openings in the building's foundation – such as cracks in the concrete slab and gaps around utility lines. It is also possible for vapors to pass through concrete, which is naturally porous. Once inside the building, vapors may be inhaled posing potential health risks.

To effectively eliminate vapor intrusion concerns, we recommend Dal Properties install a sub-slab depressurization (SSD) system overlain by a spray-applied vapor barrier membrane - a protective barrier to potential soil gas contaminants. An SSD system is designed to function by continuously creating a lower pressure directly underneath the building slab relative to the pressure within the building. The resulting sub-slab negative pressure inhibits soil gases from flowing into the building, essentially eliminating the potential for volatile chemical entry into the building. If present, volatile chemicals caught in this negative pressure field are collected and piped to ambient air discharge points. As an additional level of protection, a spray-applied membrane or seal is placed between the foundation of the building and the base materials, effectively sealing penetrations and the sub-slab to create an additional barrier to vapors from permeating through the slab and into the building.

Closing

This letter, an instrument of professional service, was prepared for the sole use of DAL Properties, LLC and may not be reproduced or distributed without written authorization from Cornerstone. The chemical data presented in this letter may change over time and are only valid for this time and location. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

Should you have any questions regarding this letter, or if we may be of further service, please contact us at your convenience.

Sincerely,

Cornerstone Earth Group, Inc.



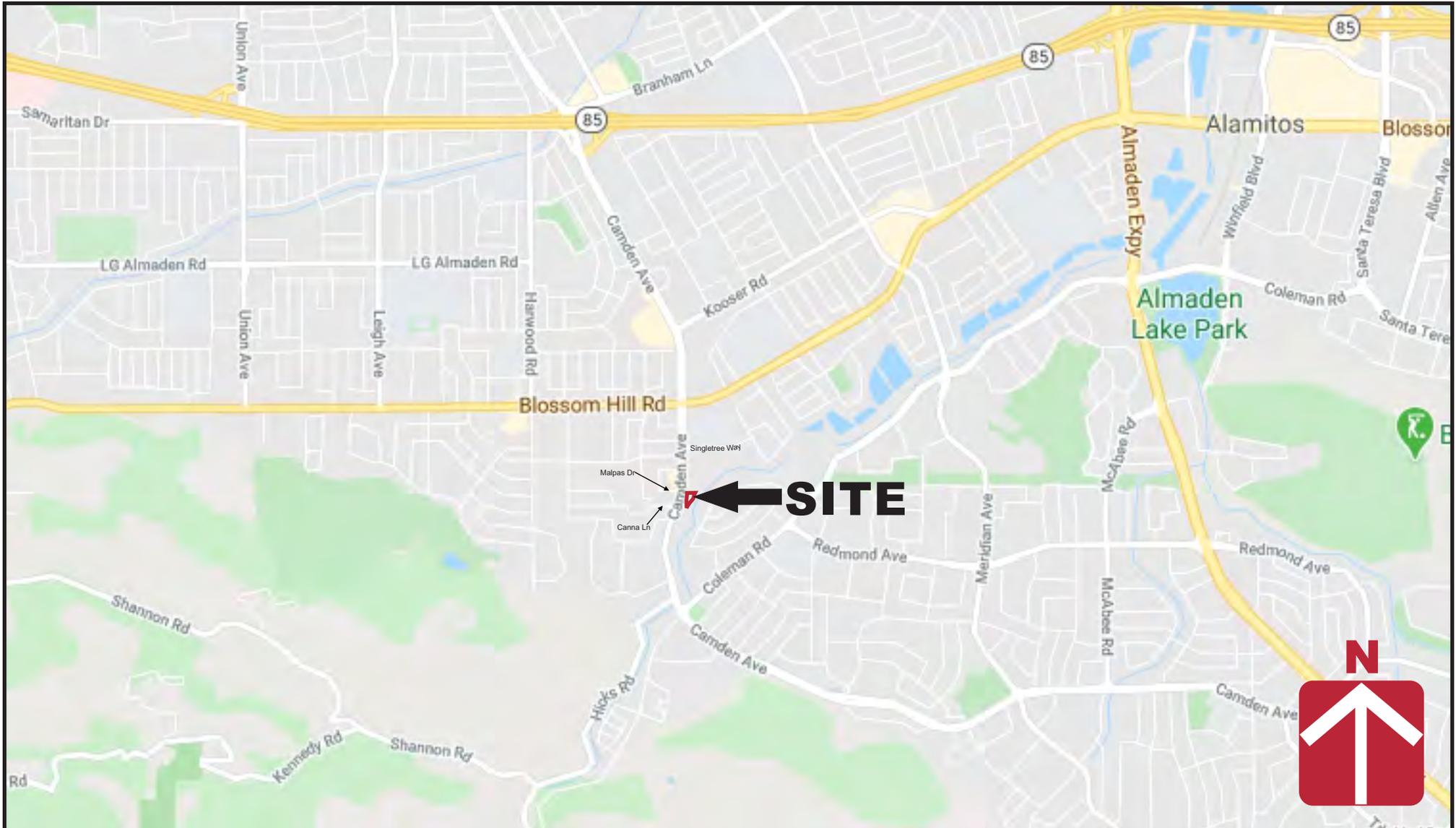
Michael F. Chang, P.E.
Project Engineer



Ron L. Helm, P.G., C.Hg.
Senior Principal Geologist

Attachments: Figures
 Data Tables
 Boring Logs
 Laboratory Reports and Chain of Custody Records

FIGURES



Vicinity Map

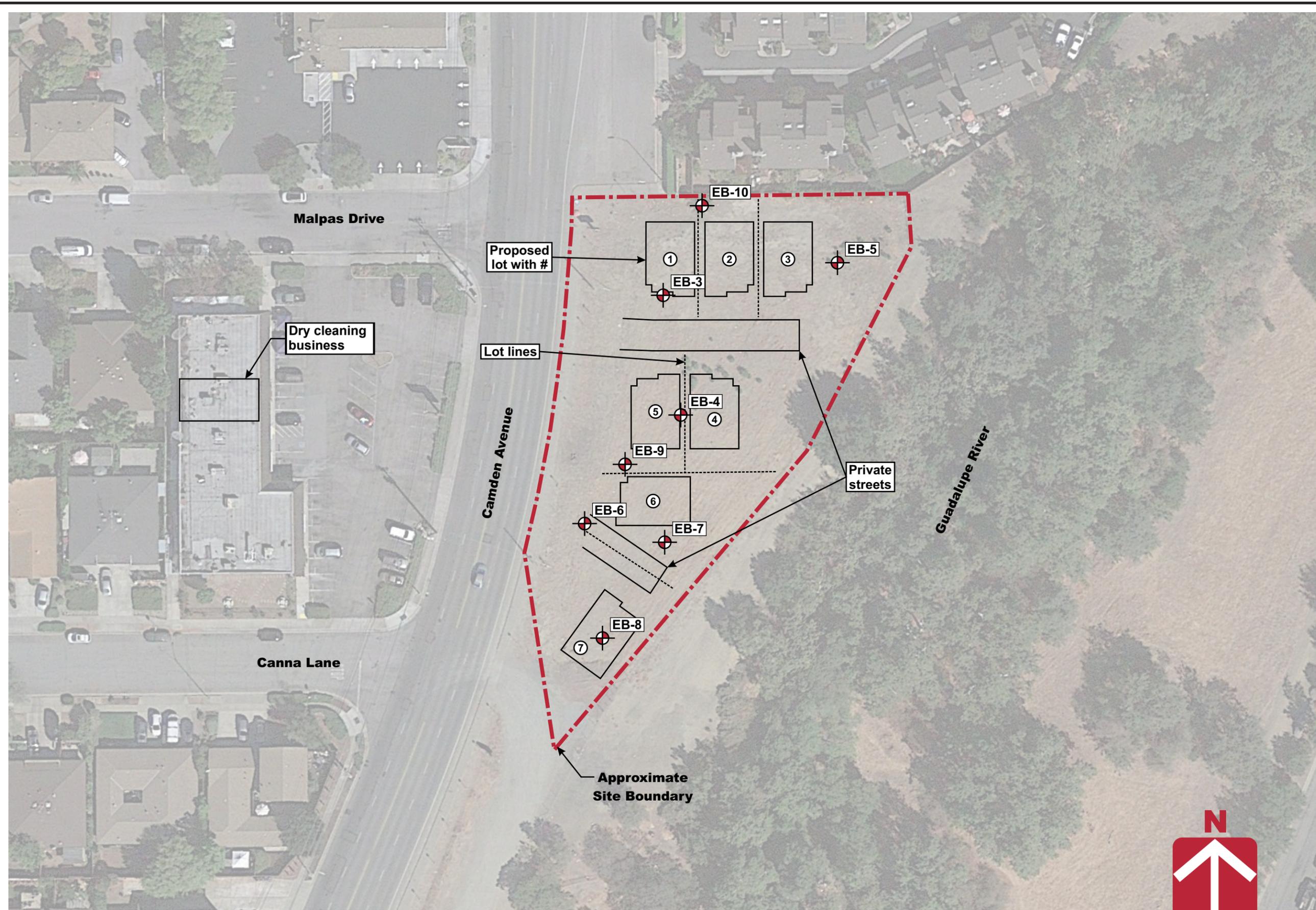
Camden Avenue Parcel
(APN 567-26-014)
San Jose, CA

Project Number
336-10-3

Figure Number
Figure 1

Date
June 2021

Drawn By
RRN



Base by Google Earth, dated 09/26/2020

Legend
 Approximate location of soil boring (EB)
 (Cornerstone, February 2021)

0 60 120
 APPROXIMATE SCALE (FEET)

Project Number	336-10-3
Figure Number	Figure 2
Date	June 2021
Drawn By	RRN

Soil Sampling Location Plan
 Camden Avenue Parcel
 (APN 567-26-014)
 San Jose, CA

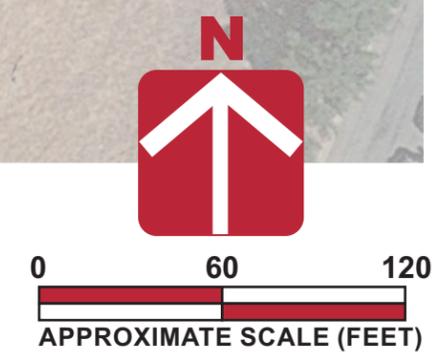




Soil Vapor Sampling Location Plan
 Camden Avenue Parcel
 (APN 567-26-014)
 San Jose, CA

Legend

- ▲ Approximate location of installed soil vapor well (SVP) (Cornerstone, May 2021)
- ▲ Approximate location of nested soil vapor well (SV) (Cornerstone, February 2021)



DATA TABLES

Table 1. Analytical Results of Selected Soil Samples
(Concentrations in mg/kg on a dry weight basis unless otherwise noted)

Sample Location	Boring ID	Sample ID	Date	Depth (feet)	4,4'-DDE	4,4'-DDT	DDT Total	alpha-Chlordane	gamma-Chlordane	Arsenic	Lead	Mercury	Asbestos (%)
Lot 1	EB-3	EB-3 (0-0.5)	2/24/2021	0-½	0.23	0.029	0.259	<0.02	<0.02	5.3	14	0.19	<0.25
		EB-3 (1.5-2)	2/24/2021	1½-2	0.083	0.0088	0.0918	<0.0019	<0.0019	---	---	---	---
Lot 4	EB-4	EB-4 (0-0.5)	2/24/2021	0-½	0.038	0.013	0.051	<0.0098	<0.0098	5	19	0.28	---
Lot 3	EB-5	EB-5 (0-0.5)	2/24/2021	0-½	0.62	0.38	1*	<0.037	<0.037	5.6	13	0.054	<0.25
		EB-5 (1.5-2)	2/24/2021	1½-2	0.19	0.13	0.32	<0.0017	<0.0017	---	---	---	---
Lot 6	EB-6	EB-6 (0-0.5)	2/24/2021	0-½	0.025	0.011	0.036	<0.0094	<0.0094	8.2	19	0.28	---
	EB-7	EB-7 (0-0.5)	2/24/2021	0-½	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	4	6.3	0.1	---
Lot 7	EB-8	EB-8 (0-0.5)	2/24/2021	0-½	0.048	0.02	0.068	0.12	0.15	4.3	18	0.092	<0.25
Lot 5	EB-9	EB-9(0-0.5)	2/26/2021	0-½	0.0094	0.0044	0.0138	<0.0018	<0.0018	6.3	9.4	0.48	---
Lot 2	EB-10	EB-10(0-0.5)	2/26/2022	0-½	0.11	0.011	0.121	<0.0088	<0.0088	4.5	36	0.44	---
Maximum Detection					0.62	0.38	1	0.12	0.15	8.2	36	0.48	<0.25
Screening Criteria					0.33 (1.8)	0.0011 (1.9)	1	0.0085 (0.48)	0.0085 (0.48)	11	32 (80)	13	0.25
Basis					ESL ¹	ESL ¹	TTLC ²	ESL ³	ESL ³	Duverge ⁴	ESL ¹	ESL ¹	ATCM ⁵

- 1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019. Number in parenthesis is the residential direct exposure ESL.
 - 2 Total Threshold Limit Concentration (TTLC) - California Code of Regulations, Title 22.
 - 3 Tier 1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019. ESLs for alpha, and gamma chlordane have not been established, Tier 1 ESL for total chlordane is used. Number in parenthesis is the residential direct exposure ESL for total chlordane.
 - 4 Duverge, 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.
 - 5 California Air Resource Board (CARB) - Air Toxic Control Measure (ATCM) - asbestos regulatory threshold screening level.
- * A 95% UCL was calculated for the site at 0.709 mg/kg.
 < Not detected at or above laboratory reporting limit
 --- Not analyzed
BOLD Concentration at or exceeds TTLC

Table 2. Analytical Results of Soil Vapor Samples
(Concentrations in $\mu\text{g}/\text{m}^3$)

Sample Location	Boring ID	Sample ID	Date	Depth (feet)	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1 - DCE	Vinyl Chloride	Isopropanol
Northwest Corner	SV-1	SV-1-5	2/26/2021	5	<3.4	<2.7	<2.0	<2.0	<2.0	<1.3	<12
		SV-1-15	2/26/2021	15	9.7	4.6	<2.0	<2.0	<2.0	<1.3	<12
Across From Dry Cleaning Business	SV-2	SV-2-5	2/26/2021	5	7.9	<2.7	<2.0	<2.0	<2.0	<1.3	<12
		SV-2-15	2/26/2021	15	7.8	22	<2.0	<2.0	<2.0	<1.3	<12
Lot1	SVP-1	SVP-1	5/19/2021	15	7	<2.7	<2.0	<2.0	<2.0	<1.3	<12
Lot 2	SVP-2	SVP-2	5/19/2021	15	11	<2.7	<2.0	<2.0	<2.0	<1.3	91
Lot 3	SVP-3	SVP-3	5/19/2021	15	29	<2.7	<2.0	<2.0	<2.0	<1.3	<12
Lot 4	SVP-4	SVP-4	5/19/2021	15	11	<2.7	<2.0	<2.0	<2.0	<1.3	<12
Lot 5	SVP-5	SVP-5	5/19/2021	15	9.5	<2.7	<2.0	<2.0	<2.0	<1.3	<12
Lot 6	SVP-6	SVP-6	5/19/2021	15	9.9	<2.7	<2.0	<2.0	<2.0	<1.3	<12
Lot 7	SVP-7	SVP-7	5/19/2021	15	10	4.2	<2.0	<2.0	<2.0	<1.3	<12
Maximum Detection					29	22	<2.0	<2.0	<2.0	<1.3	91
ESL ¹ - Tier 1					15	16	280	2800	2400	0.32	NE

1 Environmental Screening Level (ESL), RWQCB, San Francisco Bay Region - January 2019.
 < Not detected at or above laboratory reporting limit
 NE Not Established
BOLD Concentration exceeds selected Environmental Screening Criteria

BORING LOGS

PROJECT NAME Camden Ave and Malpas Dr

PROJECT NUMBER 336-10-2

PROJECT LOCATION San Jose, CA

DATE STARTED 2/24/21 DATE COMPLETED 2/24/21

GROUND ELEVATION _____ BORING DEPTH 15 ft.

DRILLING CONTRACTOR Penecore

BORING DIAMETER ft

DRILLING METHOD Geoprobe 6712DT, Direct Push

GROUND WATER LEVELS:

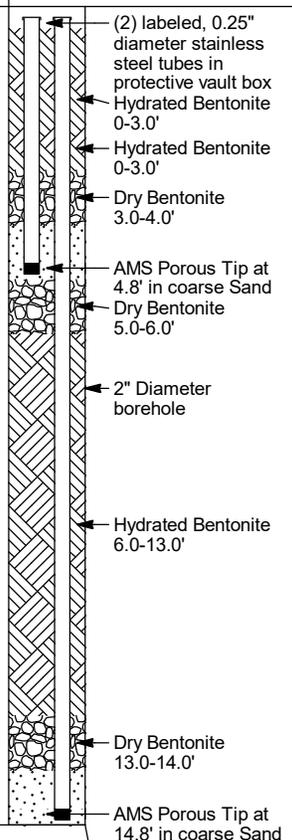
LOGGED BY BJT

▽ AT TIME OF DRILLING Not Encountered

PERMIT NUMBER _____ INSPECTOR _____

▼ AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
	0		Sandy Clay (CL) [Reworked native] dry, brown, some fine subangular gravel				 <ul style="list-style-type: none"> (2) labeled, 0.25" diameter stainless steel tubes in protective vault box Hydrated Bentonite 0-3.0' Hydrated Bentonite 0-3.0' Dry Bentonite 3.0-4.0' AMS Porous Tip at 4.8' in coarse Sand Dry Bentonite 5.0-6.0' 2" Diameter borehole Hydrated Bentonite 6.0-13.0' Dry Bentonite 13.0-14.0' AMS Porous Tip at 14.8' in coarse Sand
			Sandy Clay (CL) [Fill] dry, brown, some fine to coarse subangular gravel	30	0.0		
					0.1		
	5						
				40	0.0		
					0.0		
	10		Clay with Sand (CL) moist, light brown with reddish brown mottles, some fine subangular gravel		0.0		
				85	0.0		
					0.0		
	15		Bottom of Boring at 15.0 feet.				
	20						

PROJECT NAME Camden Ave and Malpas Dr

PROJECT NUMBER 336-10-2

PROJECT LOCATION San Jose, CA

DATE STARTED 2/24/21 DATE COMPLETED 2/24/21

GROUND ELEVATION _____ BORING DEPTH 15 ft.

DRILLING CONTRACTOR Penecore

BORING DIAMETER ft

DRILLING METHOD Geoprobe 6712DT, Direct Push

GROUND WATER LEVELS:

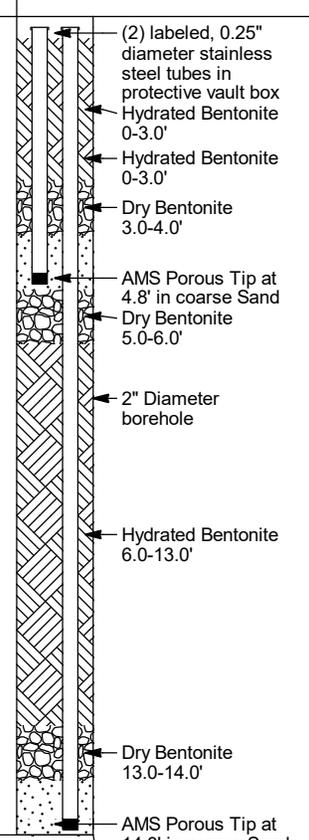
LOGGED BY BJT

▽ AT TIME OF DRILLING Not Encountered

PERMIT NUMBER _____ INSPECTOR _____

▼ AT END OF DRILLING Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	Sample Type	Percent Recovery (%)	OVM Reading (ppm)	Odors or Discoloration	Well Details
	0		Sandy Clay (CL) [Reworked native] dry, brown, some fine subangular gravel			0.0		 <p>(2) labeled, 0.25" diameter stainless steel tubes in protective vault box Hydrated Bentonite 0-3.0' Hydrated Bentonite 0-3.0' Dry Bentonite 3.0-4.0' AMS Porous Tip at 4.8' in coarse Sand Dry Bentonite 5.0-6.0'</p>
			Sandy Clay (CL) [Fill] dry, brown, some fine to coarse subangular gravel		30	0.0		
	5				70	0.0		
	10		Clay with Sand (CL) moist, light brown with reddish brown mottles, some fine subangular gravel			0.0		<p>2" Diameter borehole Hydrated Bentonite 6.0-13.0' Dry Bentonite 13.0-14.0' AMS Porous Tip at 14.8' in coarse Sand</p>
	15		Bottom of Boring at 15.0 feet.		70	0.0		
	20					0.0		

LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-70441-1

Client Project/Site: Camden Ave and Malpas Drive SQE

For:

Cornerstone Earth Group
1220 Oakland Blvd
Suite 220
Walnut Creek, California 94085

Attn: Kurt Soenen



*Authorized for release by:
3/11/2021 7:22:48 PM*

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
Afsaneh.Salimpour@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Job ID: 320-70441-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-70441-1

Comments

No additional comments.

Receipt

The samples were received on 2/24/2021 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.5° C.

GC Semi VOA

Method 8081A: The following samples were diluted to bring the concentration of target analytes within the calibration range: EB-4 (0-0.5) (320-70441-7) and EB-6 (0-0.5) (320-70441-11). Elevated reporting limits (RLs) are provided.

Method 8081A: The laboratory control sample (LCS) for preparation batch 320-466566 and analytical batch 320-468388 recovered outside control limits in the confirmation column for the following analytes: Aldrin, cis-Chlordane, 4,4'-DDE, gamma-BHC (Lindane), trans-Chlordane, Dieldrin and Heptachlor epoxide. These analytes were in control in the primary column therefore, the data have been reported.

Method 8081A: The following samples were diluted due to the nature of the sample matrix: (320-70451-A-2-H), (320-70451-A-2-I MS) and (320-70451-A-2-J MSD). Elevated reporting limits (RLs) are provided.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-466566 and analytical batch 320-468388 were outside control limits. Sample matrix interference are suspected.

Method 8081A: The following samples were diluted due to abundance of target analytes: EB-3 (0-0.5) (320-70441-5), EB-5 (0-0.5) (320-70441-9) and EB-8 (0-0.5) (320-70441-15). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-3 (0-0.5)

Lab Sample ID: 320-70441-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	230		20		ug/Kg	10	✳	8081A	Total/NA
4,4'-DDT	29		20		ug/Kg	10	✳	8081A	Total/NA
Lead	14		1.2		mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.3		2.3		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.19		0.050		mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: EB-4 (0-0.5)

Lab Sample ID: 320-70441-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	38		9.8		ug/Kg	5	✳	8081A	Total/NA
4,4'-DDT	13		9.8		ug/Kg	5	✳	8081A	Total/NA
Lead	19		1.1		mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.0		2.3		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.28		0.045		mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: EB-5 (0-0.5)

Lab Sample ID: 320-70441-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	620		37		ug/Kg	20	✳	8081A	Total/NA
4,4'-DDT	380		37		ug/Kg	20	✳	8081A	Total/NA
Lead	13		1.1		mg/Kg	1	✳	6010B	Total/NA
Arsenic	5.6		2.1		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.054		0.042		mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: EB-6 (0-0.5)

Lab Sample ID: 320-70441-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	25		9.4		ug/Kg	5	✳	8081A	Total/NA
4,4'-DDT	11		9.4		ug/Kg	5	✳	8081A	Total/NA
Lead	19		1.1		mg/Kg	1	✳	6010B	Total/NA
Arsenic	8.2		2.1		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.28		0.041		mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: EB-7 (0-0.5)

Lab Sample ID: 320-70441-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.3		1.1		mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.0		2.2		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.10		0.047		mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: EB-8 (0-0.5)

Lab Sample ID: 320-70441-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	48		18		ug/Kg	10	✳	8081A	Total/NA
4,4'-DDT	20		18		ug/Kg	10	✳	8081A	Total/NA
cis-Chlordane	120		18		ug/Kg	10	✳	8081A	Total/NA
trans-Chlordane	150		18		ug/Kg	10	✳	8081A	Total/NA
Lead	18		1.0		mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.3		2.1		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.092		0.041		mg/Kg	1	✳	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-3 (0-0.5)

Lab Sample ID: 320-70441-5

Date Collected: 02/24/21 09:40

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 86.3

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
4,4'-DDE	230		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
4,4'-DDT	29		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Aldrin	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
alpha-BHC	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
beta-BHC	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
gamma-BHC (Lindane)	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
delta-BHC	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
cis-Chlordane	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
trans-Chlordane	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Dieldrin	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Endosulfan I	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Endosulfan II	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Endosulfan sulfate	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Endrin	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Endrin aldehyde	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Endrin ketone	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Heptachlor	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Heptachlor epoxide	ND		20		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Methoxychlor	ND		39		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10
Toxaphene	ND		770		ug/Kg	✱	03/02/21 09:28	03/09/21 17:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		47 - 107	03/02/21 09:28	03/09/21 17:14	10
Tetrachloro-m-xylene	105		47 - 107	03/02/21 09:28	03/09/21 17:14	10
DCB Decachlorobiphenyl	141	S1+	46 - 109	03/02/21 09:28	03/09/21 17:14	10
DCB Decachlorobiphenyl	128	S1+	46 - 109	03/02/21 09:28	03/09/21 17:14	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		1.2		mg/Kg	✱	02/25/21 13:15	02/26/21 10:46	1
Arsenic	5.3		2.3		mg/Kg	✱	02/25/21 13:15	02/26/21 10:46	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.050		mg/Kg	✱	03/01/21 09:00	03/01/21 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.7		0.1		%			02/25/21 12:07	1

Client Sample ID: EB-4 (0-0.5)

Lab Sample ID: 320-70441-7

Date Collected: 02/24/21 09:18

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 85.9

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
4,4'-DDE	38		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
4,4'-DDT	13		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Aldrin	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5

Euofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-4 (0-0.5)

Lab Sample ID: 320-70441-7

Date Collected: 02/24/21 09:18

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 85.9

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
beta-BHC	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
gamma-BHC (Lindane)	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
delta-BHC	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
cis-Chlordane	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
trans-Chlordane	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Dieldrin	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Endosulfan I	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Endosulfan II	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Endosulfan sulfate	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Endrin	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Endrin aldehyde	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Endrin ketone	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Heptachlor	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Heptachlor epoxide	ND		9.8		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Methoxychlor	ND		20		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5
Toxaphene	ND		390		ug/Kg	✱	03/02/21 09:28	03/08/21 19:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		47 - 107	03/02/21 09:28	03/08/21 19:57	5
Tetrachloro-m-xylene	62		47 - 107	03/02/21 09:28	03/08/21 19:57	5
DCB Decachlorobiphenyl	60		46 - 109	03/02/21 09:28	03/08/21 19:57	5
DCB Decachlorobiphenyl	75		46 - 109	03/02/21 09:28	03/08/21 19:57	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		1.1		mg/Kg	✱	02/25/21 13:15	02/26/21 10:50	1
Arsenic	5.0		2.3		mg/Kg	✱	02/25/21 13:15	02/26/21 10:50	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.045		mg/Kg	✱	03/01/21 09:00	03/01/21 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	14.1		0.1		%	-		02/25/21 12:07	1

Client Sample ID: EB-5 (0-0.5)

Lab Sample ID: 320-70441-9

Date Collected: 02/24/21 08:19

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 90.9

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
4,4'-DDE	620		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
4,4'-DDT	380		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Aldrin	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
alpha-BHC	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
beta-BHC	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
gamma-BHC (Lindane)	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
delta-BHC	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-5 (0-0.5)

Lab Sample ID: 320-70441-9

Date Collected: 02/24/21 08:19

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 90.9

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-Chlordane	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
trans-Chlordane	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Dieldrin	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Endosulfan I	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Endosulfan II	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Endosulfan sulfate	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Endrin	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Endrin aldehyde	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Endrin ketone	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Heptachlor	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Heptachlor epoxide	ND		37		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Methoxychlor	ND		74		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20
Toxaphene	ND		1500		ug/Kg	✱	03/02/21 09:28	03/09/21 17:32	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	82		47 - 107	03/02/21 09:28	03/09/21 17:32	20
Tetrachloro-m-xylene	82		47 - 107	03/02/21 09:28	03/09/21 17:32	20
DCB Decachlorobiphenyl	102		46 - 109	03/02/21 09:28	03/09/21 17:32	20
DCB Decachlorobiphenyl	104		46 - 109	03/02/21 09:28	03/09/21 17:32	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.1		mg/Kg	✱	02/25/21 13:15	02/26/21 10:54	1
Arsenic	5.6		2.1		mg/Kg	✱	02/25/21 13:15	02/26/21 10:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.054		0.042		mg/Kg	✱	03/01/21 09:00	03/01/21 16:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1		%			02/25/21 12:07	1

Client Sample ID: EB-6 (0-0.5)

Lab Sample ID: 320-70441-11

Date Collected: 02/24/21 10:00

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 89.8

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
4,4'-DDE	25		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
4,4'-DDT	11		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
Aldrin	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
alpha-BHC	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
beta-BHC	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
gamma-BHC (Lindane)	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
delta-BHC	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
cis-Chlordane	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
trans-Chlordane	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
Dieldrin	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5
Endosulfan I	ND		9.4		ug/Kg	✱	03/02/21 09:28	03/08/21 20:35	5

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-6 (0-0.5)

Lab Sample ID: 320-70441-11

Date Collected: 02/24/21 10:00

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 89.8

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Endosulfan sulfate	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Endrin	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Endrin aldehyde	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Endrin ketone	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Heptachlor	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Heptachlor epoxide	ND		9.4		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Methoxychlor	ND		19		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Toxaphene	ND		370		ug/Kg	☼	03/02/21 09:28	03/08/21 20:35	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	61		47 - 107				03/02/21 09:28	03/08/21 20:35	5
Tetrachloro-m-xylene	62		47 - 107				03/02/21 09:28	03/08/21 20:35	5
DCB Decachlorobiphenyl	56		46 - 109				03/02/21 09:28	03/08/21 20:35	5
DCB Decachlorobiphenyl	73		46 - 109				03/02/21 09:28	03/08/21 20:35	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		1.1		mg/Kg	☼	02/25/21 13:15	02/26/21 10:58	1
Arsenic	8.2		2.1		mg/Kg	☼	02/25/21 13:15	02/26/21 10:58	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.041		mg/Kg	☼	03/01/21 09:00	03/01/21 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		0.1		%			02/25/21 12:07	1

Client Sample ID: EB-7 (0-0.5)

Lab Sample ID: 320-70441-13

Date Collected: 02/24/21 07:59

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 88.2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
4,4'-DDE	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
4,4'-DDT	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Aldrin	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
alpha-BHC	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
beta-BHC	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
gamma-BHC (Lindane)	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
delta-BHC	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
cis-Chlordane	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
trans-Chlordane	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Dieldrin	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Endosulfan I	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Endosulfan II	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Endosulfan sulfate	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Endrin	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1
Endrin aldehyde	ND		1.8		ug/Kg	☼	03/02/21 09:28	03/08/21 20:53	1

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-7 (0-0.5)

Lab Sample ID: 320-70441-13

Date Collected: 02/24/21 07:59

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 88.2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		1.8		ug/Kg	✱	03/02/21 09:28	03/08/21 20:53	1
Heptachlor	ND		1.8		ug/Kg	✱	03/02/21 09:28	03/08/21 20:53	1
Heptachlor epoxide	ND		1.8		ug/Kg	✱	03/02/21 09:28	03/08/21 20:53	1
Methoxychlor	ND		3.7		ug/Kg	✱	03/02/21 09:28	03/08/21 20:53	1
Toxaphene	ND		72		ug/Kg	✱	03/02/21 09:28	03/08/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		47 - 107				03/02/21 09:28	03/08/21 20:53	1
Tetrachloro-m-xylene	57		47 - 107				03/02/21 09:28	03/08/21 20:53	1
DCB Decachlorobiphenyl	50		46 - 109				03/02/21 09:28	03/08/21 20:53	1
DCB Decachlorobiphenyl	58		46 - 109				03/02/21 09:28	03/08/21 20:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.3		1.1		mg/Kg	✱	02/25/21 13:15	02/26/21 11:09	1
Arsenic	4.0		2.2		mg/Kg	✱	02/25/21 13:15	02/26/21 11:09	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.047		mg/Kg	✱	03/01/21 09:00	03/01/21 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1		%			02/25/21 12:07	1

Client Sample ID: EB-8 (0-0.5)

Lab Sample ID: 320-70441-15

Date Collected: 02/24/21 10:08

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 91.8

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
4,4'-DDE	48		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
4,4'-DDT	20		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Aldrin	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
alpha-BHC	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
beta-BHC	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
gamma-BHC (Lindane)	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
delta-BHC	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
cis-Chlordane	120		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
trans-Chlordane	150		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Dieldrin	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Endosulfan I	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Endosulfan II	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Endosulfan sulfate	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Endrin	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Endrin aldehyde	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Endrin ketone	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Heptachlor	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Heptachlor epoxide	ND		18		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10
Methoxychlor	ND		36		ug/Kg	✱	03/02/21 09:28	03/09/21 17:51	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-8 (0-0.5)

Lab Sample ID: 320-70441-15

Date Collected: 02/24/21 10:08

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 91.8

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		710		ug/Kg	☼	03/02/21 09:28	03/09/21 17:51	10

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		47 - 107				03/02/21 09:28	03/09/21 17:51	10
Tetrachloro-m-xylene	92		47 - 107				03/02/21 09:28	03/09/21 17:51	10
DCB Decachlorobiphenyl	138	S1+	46 - 109				03/02/21 09:28	03/09/21 17:51	10
DCB Decachlorobiphenyl	140	S1+	46 - 109				03/02/21 09:28	03/09/21 17:51	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		1.0		mg/Kg	☼	02/25/21 13:15	02/26/21 11:13	1
Arsenic	4.3		2.1		mg/Kg	☼	02/25/21 13:15	02/26/21 11:13	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.092		0.041		mg/Kg	☼	03/01/21 09:00	03/01/21 16:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1		%			02/25/21 12:07	1

Surrogate Summary

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (47-107)	TCX2 (47-107)	DCBP1 (46-109)	DCBP2 (46-109)
320-70441-5	EB-3 (0-0.5)	107	105	141 S1+	128 S1+
320-70441-7	EB-4 (0-0.5)	64	62	60	75
320-70441-9	EB-5 (0-0.5)	82	82	102	104
320-70441-11	EB-6 (0-0.5)	61	62	56	73
320-70441-13	EB-7 (0-0.5)	51	57	50	58
320-70441-15	EB-8 (0-0.5)	102	92	138 S1+	140 S1+
320-70451-A-2-I MS	Matrix Spike	80		53	
320-70451-A-2-J MSD	Matrix Spike Duplicate	71		50	
LCS 320-466566/2-A	Lab Control Sample	72		84	
LCS 320-466566/3-A	Lab Control Sample	70		73	
MB 320-466566/1-A	Method Blank	74	90	83	88

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-466566/1-A
Matrix: Solid
Analysis Batch: 468388

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466566

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
4,4'-DDE	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
4,4'-DDT	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Aldrin	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
alpha-BHC	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
beta-BHC	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
gamma-BHC (Lindane)	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
delta-BHC	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
cis-Chlordane	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
trans-Chlordane	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Dieldrin	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Endosulfan I	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Endosulfan II	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Endosulfan sulfate	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Endrin	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Endrin aldehyde	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Endrin ketone	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Heptachlor	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Heptachlor epoxide	ND		1.7		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Methoxychlor	ND		3.4		ug/Kg		03/02/21 09:28	03/08/21 18:41	1
Toxaphene	ND		67		ug/Kg		03/02/21 09:28	03/08/21 18:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	74		47 - 107	03/02/21 09:28	03/08/21 18:41	1
Tetrachloro-m-xylene	90		47 - 107	03/02/21 09:28	03/08/21 18:41	1
DCB Decachlorobiphenyl	83		46 - 109	03/02/21 09:28	03/08/21 18:41	1
DCB Decachlorobiphenyl	88		46 - 109	03/02/21 09:28	03/08/21 18:41	1

Lab Sample ID: LCS 320-466566/2-A
Matrix: Solid
Analysis Batch: 468388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466566

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
4,4'-DDD	16.7	16.4		ug/Kg		98	53 - 117
4,4'-DDE	16.7	17.4		ug/Kg		104	58 - 115
4,4'-DDT	16.7	16.2		ug/Kg		97	53 - 128
Aldrin	16.7	15.8		ug/Kg		95	55 - 109
alpha-BHC	16.7	15.2		ug/Kg		91	54 - 111
beta-BHC	16.7	14.5		ug/Kg		87	53 - 115
gamma-BHC (Lindane)	16.7	15.9		ug/Kg		95	54 - 112
delta-BHC	16.7	14.5		ug/Kg		87	39 - 124
cis-Chlordane	16.7	16.3		ug/Kg		98	54 - 113
trans-Chlordane	16.7	16.5		ug/Kg		99	55 - 114
Dieldrin	16.7	17.0		ug/Kg		102	54 - 117
Endosulfan I	16.7	11.2		ug/Kg		67	42 - 118
Endosulfan II	16.7	14.6		ug/Kg		88	48 - 118
Endosulfan sulfate	16.7	17.7		ug/Kg		106	51 - 113
Endrin	16.7	15.8		ug/Kg		95	58 - 115

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QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 320-466566/2-A
Matrix: Solid
Analysis Batch: 468388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde	16.7	15.1		ug/Kg		90	40 - 100
Endrin ketone	16.7	17.3		ug/Kg		104	51 - 118
Heptachlor	16.7	15.2		ug/Kg		91	50 - 118
Heptachlor epoxide	16.7	16.0		ug/Kg		96	56 - 113
Methoxychlor	16.7	14.4		ug/Kg		86	52 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		47 - 107
DCB Decachlorobiphenyl	84		46 - 109

Lab Sample ID: LCS 320-466566/3-A
Matrix: Solid
Analysis Batch: 468388

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	167	127		ug/Kg		76	43 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	70		47 - 107
DCB Decachlorobiphenyl	73		46 - 109

Lab Sample ID: 320-70451-A-2-I MS
Matrix: Solid
Analysis Batch: 468388

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 466566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		18.0	11.1		ug/Kg	☼	62	53 - 117
4,4'-DDE	ND		18.0	21.5		ug/Kg	☼	113	58 - 115
4,4'-DDT	ND	F1	18.0	ND	F1	ug/Kg	☼	30	53 - 128
Aldrin	ND		18.0	15.1		ug/Kg	☼	84	55 - 109
alpha-BHC	ND	F1	18.0	ND	F1	ug/Kg	☼	23	54 - 111
beta-BHC	ND		18.0	16.1		ug/Kg	☼	89	53 - 115
gamma-BHC (Lindane)	ND	F1	18.0	ND	F1	ug/Kg	☼	23	54 - 112
delta-BHC	ND	F1	18.0	ND	F1	ug/Kg	☼	0	39 - 124
cis-Chlordane	ND		18.0	14.3		ug/Kg	☼	73	54 - 113
trans-Chlordane	ND		18.0	15.0		ug/Kg	☼	83	55 - 114
Dieldrin	ND	*+	18.0	13.6		ug/Kg	☼	76	54 - 117
Endosulfan I	ND	F1	18.0	ND	F1	ug/Kg	☼	0	42 - 118
Endosulfan II	ND	F1	18.0	ND	F1	ug/Kg	☼	0	48 - 118
Endosulfan sulfate	ND	F1	18.0	ND	F1	ug/Kg	☼	16	51 - 113
Endrin	ND		18.0	13.4		ug/Kg	☼	74	58 - 115
Endrin aldehyde	ND	F1	18.0	ND	F1	ug/Kg	☼	0	40 - 100
Endrin ketone	ND	F1	18.0	ND	F1	ug/Kg	☼	33	51 - 118
Heptachlor	ND		18.0	14.8		ug/Kg	☼	82	50 - 118
Heptachlor epoxide	ND		18.0	15.9		ug/Kg	☼	88	56 - 113
Methoxychlor	ND		18.0	ND		ug/Kg	☼	57	52 - 123

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 320-70451-A-2-I MS
Matrix: Solid
Analysis Batch: 468388

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 466566

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	80		47 - 107
DCB Decachlorobiphenyl	53		46 - 109

Lab Sample ID: 320-70451-A-2-J MSD
Matrix: Solid
Analysis Batch: 468388

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 466566

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
4,4'-DDD	ND		17.5	9.16	F1	ug/Kg	⊛	52	53 - 117	19	30	
4,4'-DDE	ND		17.5	18.1		ug/Kg	⊛	97	58 - 115	17	30	
4,4'-DDT	ND	F1	17.5	ND	F1	ug/Kg	⊛	28	53 - 128	11	30	
Aldrin	ND		17.5	13.4		ug/Kg	⊛	77	55 - 109	11	30	
alpha-BHC	ND	F1	17.5	ND	F1	ug/Kg	⊛	24	54 - 111	1	30	
beta-BHC	ND		17.5	14.1		ug/Kg	⊛	81	53 - 115	13	30	
gamma-BHC (Lindane)	ND	F1	17.5	ND	F1	ug/Kg	⊛	22	54 - 112	7	30	
delta-BHC	ND	F1	17.5	ND	F1	ug/Kg	⊛	12	39 - 124	NC	30	
cis-Chlordane	ND		17.5	12.2		ug/Kg	⊛	64	54 - 113	16	30	
trans-Chlordane	ND		17.5	12.9		ug/Kg	⊛	74	55 - 114	15	30	
Dieldrin	ND	*+	17.5	13.6		ug/Kg	⊛	78	54 - 117	0	30	
Endosulfan I	ND	F1	17.5	ND	F1	ug/Kg	⊛	6	42 - 118	NC	30	
Endosulfan II	ND	F1	17.5	ND	F1	ug/Kg	⊛	0	48 - 118	NC	30	
Endosulfan sulfate	ND	F1	17.5	ND	F1	ug/Kg	⊛	18	51 - 113	7	30	
Endrin	ND		17.5	11.7		ug/Kg	⊛	67	58 - 115	13	30	
Endrin aldehyde	ND	F1	17.5	ND	F1	ug/Kg	⊛	0	40 - 100	NC	30	
Endrin ketone	ND	F1	17.5	ND	F1	ug/Kg	⊛	31	51 - 118	11	30	
Heptachlor	ND		17.5	13.2		ug/Kg	⊛	75	50 - 118	12	30	
Heptachlor epoxide	ND		17.5	13.2		ug/Kg	⊛	75	56 - 113	19	30	
Methoxychlor	ND		17.5	ND		ug/Kg	⊛	52	52 - 123	13	30	

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	71		47 - 107
DCB Decachlorobiphenyl	50		46 - 109

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-465193/1-A
Matrix: Solid
Analysis Batch: 465667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 465193

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0		mg/Kg		02/25/21 13:15	02/26/21 09:37	1
Arsenic	ND		2.0		mg/Kg		02/25/21 13:15	02/26/21 09:37	1

Lab Sample ID: LCS 320-465193/2-A
Matrix: Solid
Analysis Batch: 465667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 465193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	25.0	23.1		mg/Kg		93	80 - 120

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QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 320-465193/2-A
Matrix: Solid
Analysis Batch: 465667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 465193

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	44.9		mg/Kg		90	80 - 120

Lab Sample ID: 320-70278-K-1-C MS
Matrix: Solid
Analysis Batch: 465667

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 465193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	4.6		31.9	34.5		mg/Kg	☼	94	80 - 120
Arsenic	7.9		63.7	65.6		mg/Kg	☼	90	80 - 120

Lab Sample ID: 320-70278-K-1-D MSD
Matrix: Solid
Analysis Batch: 465667

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 465193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	4.6		30.9	32.8		mg/Kg	☼	91	80 - 120	5	35
Arsenic	7.9		61.9	63.0		mg/Kg	☼	89	80 - 120	4	35

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-465533/11-A
Matrix: Solid
Analysis Batch: 466480

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 465533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040		mg/Kg		03/01/21 09:00	03/01/21 12:28	1

Lab Sample ID: LCS 320-465533/12-A
Matrix: Solid
Analysis Batch: 466480

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 465533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.168		mg/Kg		100	86 - 114

Lab Sample ID: LCSD 320-465533/13-A
Matrix: Solid
Analysis Batch: 466480

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 465533

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.167	0.168		mg/Kg		100	86 - 114	0	17

Lab Sample ID: 320-70477-B-1-F MS
Matrix: Solid
Analysis Batch: 466480

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 465533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.161	0.172		mg/Kg		97	86 - 114

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 320-70477-B-1-G MSD
Matrix: Solid
Analysis Batch: 466480

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 465533

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.172	0.190		mg/Kg		101	86 - 114	10	17

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-70452-A-1 DU
Matrix: Solid
Analysis Batch: 465103

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.3		10.0		%		8	20



QC Association Summary

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

GC Semi VOA

Prep Batch: 466566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	3546	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	3546	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	3546	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	3546	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	3546	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	3546	
MB 320-466566/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-466566/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-466566/3-A	Lab Control Sample	Total/NA	Solid	3546	
320-70451-A-2-I MS	Matrix Spike	Total/NA	Solid	3546	
320-70451-A-2-J MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 468388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	8081A	466566
MB 320-466566/1-A	Method Blank	Total/NA	Solid	8081A	466566
LCS 320-466566/2-A	Lab Control Sample	Total/NA	Solid	8081A	466566
LCS 320-466566/3-A	Lab Control Sample	Total/NA	Solid	8081A	466566
320-70451-A-2-I MS	Matrix Spike	Total/NA	Solid	8081A	466566
320-70451-A-2-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	466566

Analysis Batch: 468726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	8081A	466566
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	8081A	466566

Metals

Composite Batch: 464496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70278-K-1-C MS	Matrix Spike	Total/NA	Solid	Composite	
320-70278-K-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	Composite	

Prep Batch: 465193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	3050B	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	3050B	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	3050B	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	3050B	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	3050B	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	3050B	
MB 320-465193/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-465193/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-70278-K-1-C MS	Matrix Spike	Total/NA	Solid	3050B	464496
320-70278-K-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	464496

QC Association Summary

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Metals

Prep Batch: 465533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	7471A	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	7471A	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	7471A	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	7471A	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	7471A	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	7471A	
MB 320-465533/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-465533/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-465533/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
320-70477-B-1-F MS	Matrix Spike	Total/NA	Solid	7471A	
320-70477-B-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 465667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	6010B	465193
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	6010B	465193
MB 320-465193/1-A	Method Blank	Total/NA	Solid	6010B	465193
LCS 320-465193/2-A	Lab Control Sample	Total/NA	Solid	6010B	465193
320-70278-K-1-C MS	Matrix Spike	Total/NA	Solid	6010B	465193
320-70278-K-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	465193

Analysis Batch: 466480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	7471A	465533
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	7471A	465533
MB 320-465533/11-A	Method Blank	Total/NA	Solid	7471A	465533
LCS 320-465533/12-A	Lab Control Sample	Total/NA	Solid	7471A	465533
LCSD 320-465533/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	465533
320-70477-B-1-F MS	Matrix Spike	Total/NA	Solid	7471A	465533
320-70477-B-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	465533

General Chemistry

Analysis Batch: 465103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-5	EB-3 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-7	EB-4 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-9	EB-5 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-11	EB-6 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-13	EB-7 (0-0.5)	Total/NA	Solid	D 2216	
320-70441-15	EB-8 (0-0.5)	Total/NA	Solid	D 2216	
320-70452-A-1 DU	Duplicate	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-3 (0-0.5)

Date Collected: 02/24/21 09:40

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-3 (0-0.5)

Date Collected: 02/24/21 09:40

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-5

Matrix: Solid

Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		10			468726	03/09/21 17:14	K1D	TAL SAC
Total/NA	Prep	3050B			1.00 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:46	SP	TAL SAC
Total/NA	Prep	7471A			0.56 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:24	IM	TAL SAC

Client Sample ID: EB-4 (0-0.5)

Date Collected: 02/24/21 09:18

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-4 (0-0.5)

Date Collected: 02/24/21 09:18

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-7

Matrix: Solid

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		5			468388	03/08/21 19:57	K1D	TAL SAC
Total/NA	Prep	3050B			1.02 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:50	SP	TAL SAC
Total/NA	Prep	7471A			0.62 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:26	IM	TAL SAC

Client Sample ID: EB-5 (0-0.5)

Date Collected: 02/24/21 08:19

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Lab Chronicle

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-5 (0-0.5)

Lab Sample ID: 320-70441-9

Date Collected: 02/24/21 08:19

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		20			468726	03/09/21 17:32	K1D	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:54	SP	TAL SAC
Total/NA	Prep	7471A			0.63 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:29	IM	TAL SAC

Client Sample ID: EB-6 (0-0.5)

Lab Sample ID: 320-70441-11

Date Collected: 02/24/21 10:00

Matrix: Solid

Date Received: 02/24/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-6 (0-0.5)

Lab Sample ID: 320-70441-11

Date Collected: 02/24/21 10:00

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		5			468388	03/08/21 20:35	K1D	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 10:58	SP	TAL SAC
Total/NA	Prep	7471A			0.65 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:31	IM	TAL SAC

Client Sample ID: EB-7 (0-0.5)

Lab Sample ID: 320-70441-13

Date Collected: 02/24/21 07:59

Matrix: Solid

Date Received: 02/24/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-7 (0-0.5)

Lab Sample ID: 320-70441-13

Date Collected: 02/24/21 07:59

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.79 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		1			468388	03/08/21 20:53	K1D	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 11:09	SP	TAL SAC
Total/NA	Prep	7471A			0.58 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:35	IM	TAL SAC

Lab Chronicle

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Client Sample ID: EB-8 (0-0.5)

Lab Sample ID: 320-70441-15

Date Collected: 02/24/21 10:08

Matrix: Solid

Date Received: 02/24/21 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			465103	02/25/21 12:07	TCS	TAL SAC

Client Sample ID: EB-8 (0-0.5)

Lab Sample ID: 320-70441-15

Date Collected: 02/24/21 10:08

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.42 g	5 mL	466566	03/02/21 09:28	MBG	TAL SAC
Total/NA	Analysis	8081A		10			468726	03/09/21 17:51	K1D	TAL SAC
Total/NA	Prep	3050B			1.04 g	100 mL	465193	02/25/21 13:15	JP	TAL SAC
Total/NA	Analysis	6010B		1			465667	02/26/21 11:13	SP	TAL SAC
Total/NA	Prep	7471A			0.63 g	50 mL	465533	03/01/21 09:00	IM	TAL SAC
Total/NA	Analysis	7471A		1			466480	03/01/21 16:43	IM	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Accreditation/Certification Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2897	02-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
D 2216		Solid	Percent Moisture

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC
7471A	Preparation, Mercury	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70441-5	EB-3 (0-0.5)	Solid	02/24/21 09:40	02/24/21 11:45	
320-70441-7	EB-4 (0-0.5)	Solid	02/24/21 09:18	02/24/21 11:45	
320-70441-9	EB-5 (0-0.5)	Solid	02/24/21 08:19	02/24/21 11:45	
320-70441-11	EB-6 (0-0.5)	Solid	02/24/21 10:00	02/24/21 11:45	
320-70441-13	EB-7 (0-0.5)	Solid	02/24/21 07:59	02/24/21 11:45	
320-70441-15	EB-8 (0-0.5)	Solid	02/24/21 10:08	02/24/21 11:45	

1

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CORNERSTONE EARTH GROUP Chain of Custody Record

198926

720-70441

Cornerstone Earth Group, Inc. 1259 Oakmead Pkwy Sunnyvale, California 94085 Phone: (408) 245-4600 Fax: (408) 245-4620 Project Name: Camden Ave and Malpas Drive SQE Site: Camden Ave and Malpas Drive Project Number: 336-10-2		Project Manager: Kurt Soenen Tel/Fax: (408) 605-3037 Analysis Turnaround Time <input checked="" type="checkbox"/> TAT if different from Below _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Sampler: Benjamin Trinh Date: 02/24/2021 Lab Contact: Afsaneh Salimpour Lab: Test America		COC No: 1 1 of 2 COCs Laboratory's Job No.		
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Hold	Laboratory's Sample Specific Notes:
EB-1 (0-0.5)	2/24/21	09:24	LINER	SOIL	1	XX		
EB-1 (3.5-4)		09:32				XX		
EB-2 (0-0.5)		08:47				XX		
EB-2 (3.5-4)		08:50				XX		
EB-3 (0-0.5)		09:40				XX		
EB-3 (1.5-2)		09:45				XX	X	
EB-4 (0-0.5)		09:18				XX	X	
EB-4 (1.5-2)		09:21				XX	X	
EB-5 (0-0.5)		08:19				XX	X	
EB-5 (1.5-2)		08:22				XX	X	
EB-6 (0-0.5)		10:00				XX	X	
EB-6 (1.5-2)		10:02				XX	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____ Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.								
Relinquished by:	Company: Cornerstone Earth Group	Date/Time: 2/24/21 11:45	Received by:	Company: FASJ	Date/Time: 2-24-21 11:45	21.5%		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:			



198926

320-70444 Chain of Custody Record



Project Manager: Kurt Soenen
Tel/Fax: (408) 605-3037
Analysis Turnaround Time
 TAT if different from Below _____
 1 week
 3 days
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
EB-7 (0-0.5)	2/24/21	07:59	LINER	SOIL	1
EB-7 (1.5-2)	↓	08:05	↓	↓	↓
EB-8 (0-0.5)	↓	10:08	↓	↓	↓
EB-8 (1.5-2)	↓	10:14	↓	↓	↓

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Project Manager: Kurt Soenen
Tel/Fax: (408) 605-3037
Analysis Turnaround Time
 TAT if different from Below _____
 1 week
 3 days
 2 days
 1 day

Site Sampler: Benjamin Trinh
Lab Contact: Afsaneh Salimpour
Date: 02/24/2021
Lab: Test America
COC No: 1
of COCs: 2
Laboratory's Job No.

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months

Relinquished by: [Signature] **Company:** Cornerstone Earth Group
Date/Time: 2/24/21 11:45

Relinquished by: [Signature] **Company:** ETASS
Date/Time: 2-24-21 1145

Relinquished by: _____ **Company:** _____
Date/Time: _____

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Salimpour, Afsaneh F	Carrier Tracking No(s):	COC No: 320-213217-1											
Client Contact: Shipping/Receiving		E-Mail: Afsaneh.Salimpour@Eurofins.com	State of Origin: California	Page: Page 1 of 2											
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California													
Address: 880 Riverside Parkway,		Job #: 320-70441-1													
City: West Sacramento		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Z - other (specify)													
State, Zip: CA, 95605		Other:													
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		Total Number of containers:													
Email:															
Project #: Camden Ave and Malpas Drive SQE															
Site:															
SSOW#:															
Due Date Requested: 3/2/2021															
TAT Requested (days):															
PO #:															
WO #:															
Project #:															
SSOW#:															
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=biological, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7471A/7471A Prep Mercury Only	6010B/3050B (MOD) Lead,As	8081A/3546 Pesticides, Standard List	Moisture/ (MOD) Local Method	7471A/7471A Prep Mercury Only (Hold)	6010B/3050B (MOD) Lead,As (Hold)	8081A/3546 Pesticides, Standard List (Hold)	Moisture/ (MOD) Local Method (Hold)	Special Instructions/Note:
EB-1 (0-0.5) (320-70441-1)	2/24/21	09:24 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-1 (3.5-4) (320-70441-2)	2/24/21	09:32 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-2 (0-0.5) (320-70441-3)	2/24/21	08:47 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-2 (3.5-4) (320-70441-4)	2/24/21	08:50 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-3 (0-0.5) (320-70441-5)	2/24/21	09:40 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-3 (1.5-2) (320-70441-6)	2/24/21	09:45 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-4 (0-0.5) (320-70441-7)	2/24/21	09:18 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-4 (1.5-2) (320-70441-8)	2/24/21	09:21 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-5 (0-0.5) (320-70441-9)	2/24/21	08:19 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 2-24-21 Company: SJ
 Relinquished by: *[Signature]* Date/Time: 2-24-21 1905 Company: DCS
 Relinquished by: *[Signature]* Date/Time: 2-24-21 1905 Company: DCS

Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 2-7

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____



Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler:	Lab Pkt: Salimpour, Afsaneh F	Carrier Tracking No(s):	COC No: 320-213217.2										
Client Contact: Shipping/Receiving		Phone:	E-Mail: Afsaneh.Salimpour@Eurofins.com	State of Origin: California	Page: Page 2 of 2										
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California		Job #: 320-70441-1											
Address: 880 Riverside Parkway, City: West Sacramento State: Zin: CA, 95605		Due Date Requested: 3/2/2021	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:												
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days):	Analysis Requested												
Email:		PO #:	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)												
Project Name: Camden Ave and Malpas Drive SQE		WO #:	Total Number of Containers												
Site:		Project #: 32016556	Special Instructions/Note:												
SSOW#:		SSOW#:													
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, On-waste/soil, BT-Tissue, AAAB)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7471A/7471A_Prep Mercury Only	6010B/3050B (MOD) Lead/As	8081A/3546 Pesticides, Standard List	Moisture/ (MOD) Local Method	7471A/7471A_Prep Mercury Only (Hold)	6010B/3050B (MOD) Lead/As (Hold)	8081A/3546 Pesticides, Standard List (Hold)	Moisture/ (MOD) Local Method (Hold)	Total Number of Containers
EB-5 (1.5-2) (320-70441-10)	2/24/21	08:22 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-6 (0-0.5) (320-70441-11)	2/24/21	10:00 Pacific	Solid	Solid		X									1
EB-6 (1.5-2) (320-70441-12)	2/24/21	10:02 Pacific	Solid	Solid		X									1
EB-7 (0-0.5) (320-70441-13)	2/24/21	07:59 Pacific	Solid	Solid		X									1
EB-7 (1.5-2) (320-70441-14)	2/24/21	08:05 Pacific	Solid	Solid		X									1
EB-8 (0-0.5) (320-70441-15)	2/24/21	10:08 Pacific	Solid	Solid		X									1
EB-8 (1.5-2) (320-70441-16)	2/24/21	10:14 Pacific	Solid	Solid		X									1

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Return To Client
 Disposal By Lab
 Archive For
 Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 2/24/21 Company: ST
 Relinquished by: *[Signature]* Date/Time: 2/24/21 1905 Company: ST
 Relinquished by: *[Signature]* Date/Time: 2/24/21 1905 Company: ST

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:

Cornerstone Earth Group, Inc. 1259 Oakmead Pkwy Sunnyvale, California 94085 Phone: (408) 245-4600 Fax: (408) 245-4620 Project Name: Camden Ave and Malpas Drive SQE Site: Camden Ave and Malpas Drive Project Number: 336-10-2		Project Manager: Kurt Soenen Tel/Fax: (408) 605-3037 Analysis Turnaround Time <input checked="" type="checkbox"/> TAT if different from Below _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Sampler: Benjamin Trinh Date: 02/24/2021 Lab Contact: Afsaneh Salimpour Lab: Test America		COC No: 1 1 of 2 COCs Laboratory's Job No.											
Sample Identification EB-1 (0-0.5) EB-1 (3.5-4) EB-2 (0-0.5) EB-2 (3.5-4) EB-3 (0-0.5) EB-3 (1.5-2) EB-4 (0-0.5) EB-4 (1.5-2) EB-5 (0-0.5) EB-5 (1.5-2) EB-6 (0-0.5) EB-6 (1.5-2)		Sample Date 2/24/21		Sample Time 09:24 09:32 08:47 08:50 09:40 09:45 09:18 09:21 08:19 08:22 10:00 10:02		Sample Type LINER SOIL		Matrix SOIL		# of Cont. 1		Filtered Sample Arsenic, Lead and Mercury (EPA 6000/7000) OCPs (EPA 8081)		Hold		Laboratory's Sample Specific Notes:	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____ Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.																	
Relinquished by:		Company: Cornerstone Earth Group		Date/Time: 2/24/21 11:45		Received by:		Company: FASJ		Date/Time: 2-24-21 11:45		21.5%					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Date/Time:					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Date/Time:					



198926

320-70444 Chain of Custody Record



Project Manager: Kurt Soenen
Tel/Fax: (408) 605-3037
Analysis Turnaround Time
 TAT if different from Below _____
 1 week
 3 days
 2 days
 1 day

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
EB-7 (0-0.5)	2/24/21	07:59	LINER	SOIL	1
EB-7 (1.5-2)	↓	08:05	↓	↓	↓
EB-8 (0-0.5)	↓	10:08	↓	↓	↓
EB-8 (1.5-2)	↓	10:14	↓	↓	↓

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Project Manager: Kurt Soenen
Tel/Fax: (408) 605-3037
Analysis Turnaround Time
 TAT if different from Below _____
 1 week
 3 days
 2 days
 1 day

Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.
EB-7 (0-0.5)	2/24/21	07:59	LINER	SOIL	1
EB-7 (1.5-2)	↓	08:05	↓	↓	↓
EB-8 (0-0.5)	↓	10:08	↓	↓	↓
EB-8 (1.5-2)	↓	10:14	↓	↓	↓

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.

Relinquished by: [Signature] **Company:** Cornerstone Earth Group
Date/Time: 2/24/21 11:45

Relinquished by: [Signature] **Company:** ETASS
Date/Time: 2-24-21 1145

Relinquished by: _____ **Company:** _____
Date/Time: _____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 320-70441-1

Login Number: 70441

List Number: 1

Creator: Mullen, Joan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 320-70441-1

Login Number: 70441

List Number: 2

Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-70548-1

Client Project/Site: Camden Ave and Malpas Drive SQE

For:

Cornerstone Earth Group
1220 Oakland Blvd
Suite 220
Walnut Creek, California 94085

Attn: Kurt Soenen



Authorized for release by:
3/11/2021 7:25:57 PM

Afsaneh Salimpour, Senior Project Manager
(925)484-1919
Afsaneh.Salimpour@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Job ID: 320-70548-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-70548-1

Comments

No additional comments.

Receipt

The samples were received on 2/26/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

GC Semi VOA

Method 8081A: The following sample was diluted to bring the concentration of target analytes within the calibration range: EB-10(0-0.5) (320-70548-3). Elevated reporting limits (RLs) are provided.

Method 8081A: The laboratory control sample (LCS) for preparation batch 320-467779 and analytical batch 320-469014 recovered outside control limits in the confirmation column for the following analytes: Aldrin and 4,4'-DDE. These analytes were in control in the primary column therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-465675 and 320-466279 and analytical batch 320-466704 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The following sample was diluted due to the nature of the sample matrix: EB-10(0-0.5) (320-70548-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Client Sample ID: EB-9(0-0.5)

Lab Sample ID: 320-70548-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	9.4		1.8		ug/Kg	1	✳	8081A	Total/NA
4,4'-DDT	4.4		1.8		ug/Kg	1	✳	8081A	Total/NA
Lead	9.4		1.1		mg/Kg	1	✳	6010B	Total/NA
Arsenic	6.3		2.2		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.48		0.045		mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: EB-10(0-0.5)

Lab Sample ID: 320-70548-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	110		8.8		ug/Kg	5	✳	8081A	Total/NA
4,4'-DDT	11		8.8		ug/Kg	5	✳	8081A	Total/NA
Lead	36		1.0		mg/Kg	1	✳	6010B	Total/NA
Arsenic	4.5		2.1		mg/Kg	1	✳	6010B	Total/NA
Mercury	0.44		0.044		mg/Kg	1	✳	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Client Sample ID: EB-9(0-0.5)

Lab Sample ID: 320-70548-1

Date Collected: 02/26/21 08:10

Matrix: Solid

Date Received: 02/26/21 10:00

Percent Solids: 88.5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
4,4'-DDE	9.4		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
4,4'-DDT	4.4		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Aldrin	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
alpha-BHC	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
beta-BHC	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
gamma-BHC (Lindane)	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
delta-BHC	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
cis-Chlordane	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
trans-Chlordane	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Dieldrin	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Endosulfan I	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Endosulfan II	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Endosulfan sulfate	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Endrin	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Endrin aldehyde	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Endrin ketone	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Heptachlor	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Heptachlor epoxide	ND		1.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Methoxychlor	ND		3.7		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1
Toxaphene	ND		72		ug/Kg	☼	03/05/21 09:43	03/09/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		47 - 107	03/05/21 09:43	03/09/21 20:04	1
Tetrachloro-m-xylene	65		47 - 107	03/05/21 09:43	03/09/21 20:04	1
DCB Decachlorobiphenyl	66		46 - 109	03/05/21 09:43	03/09/21 20:04	1
DCB Decachlorobiphenyl	63		46 - 109	03/05/21 09:43	03/09/21 20:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		1.1		mg/Kg	☼	03/01/21 13:55	03/02/21 12:54	1
Arsenic	6.3		2.2		mg/Kg	☼	03/01/21 13:55	03/02/21 12:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.045		mg/Kg	☼	03/02/21 12:45	03/02/21 15:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1		%			03/02/21 11:55	1

Client Sample ID: EB-10(0-0.5)

Lab Sample ID: 320-70548-3

Date Collected: 02/26/21 08:30

Matrix: Solid

Date Received: 02/26/21 10:00

Percent Solids: 91.2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
4,4'-DDE	110		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
4,4'-DDT	11		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5
Aldrin	ND		8.8		ug/Kg	☼	03/05/21 09:43	03/09/21 20:23	5

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Client Sample ID: EB-10(0-0.5)

Lab Sample ID: 320-70548-3

Date Collected: 02/26/21 08:30

Matrix: Solid

Date Received: 02/26/21 10:00

Percent Solids: 91.2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
beta-BHC	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
gamma-BHC (Lindane)	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
delta-BHC	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
cis-Chlordane	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
trans-Chlordane	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Dieldrin	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Endosulfan I	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Endosulfan II	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Endosulfan sulfate	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Endrin	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Endrin aldehyde	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Endrin ketone	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Heptachlor	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Heptachlor epoxide	ND		8.8		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Methoxychlor	ND		18		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5
Toxaphene	ND		350		ug/Kg	✧	03/05/21 09:43	03/09/21 20:23	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		47 - 107	03/05/21 09:43	03/09/21 20:23	5
Tetrachloro-m-xylene	81		47 - 107	03/05/21 09:43	03/09/21 20:23	5
DCB Decachlorobiphenyl	73		46 - 109	03/05/21 09:43	03/09/21 20:23	5
DCB Decachlorobiphenyl	67		46 - 109	03/05/21 09:43	03/09/21 20:23	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		1.0		mg/Kg	✧	03/01/21 13:55	03/02/21 12:58	1
Arsenic	4.5		2.1		mg/Kg	✧	03/01/21 13:55	03/02/21 12:58	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.44		0.044		mg/Kg	✧	03/02/21 12:45	03/02/21 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1		%	-		03/02/21 11:55	1

Surrogate Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	TCX2	DCBP1	DCBP2
		(47-107)	(47-107)	(46-109)	(46-109)
320-70548-1	EB-9(0-0.5)	65	65	66	63
320-70548-3	EB-10(0-0.5)	84	81	73	67
320-70552-A-2-O MS	Matrix Spike		61		49
320-70552-A-2-P MSD	Matrix Spike Duplicate		73		63
LCS 320-467779/2-A	Lab Control Sample		88		94
LCS 320-467779/3-A	Lab Control Sample		94		99
MB 320-467779/1-A	Method Blank	82	89	92	89

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-467779/1-A
Matrix: Solid
Analysis Batch: 468726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 467779

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
4,4'-DDE	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
4,4'-DDT	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Aldrin	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
alpha-BHC	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
beta-BHC	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
gamma-BHC (Lindane)	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
delta-BHC	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
cis-Chlordane	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
trans-Chlordane	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Dieldrin	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Endosulfan I	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Endosulfan II	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Endosulfan sulfate	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Endrin	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Endrin aldehyde	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Endrin ketone	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Heptachlor	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Heptachlor epoxide	ND		1.7		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Methoxychlor	ND		3.4		ug/Kg		03/05/21 09:43	03/09/21 16:55	1
Toxaphene	ND		67		ug/Kg		03/05/21 09:43	03/09/21 16:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	82		47 - 107	03/05/21 09:43	03/09/21 16:55	1
Tetrachloro-m-xylene	89		47 - 107	03/05/21 09:43	03/09/21 16:55	1
DCB Decachlorobiphenyl	92		46 - 109	03/05/21 09:43	03/09/21 16:55	1
DCB Decachlorobiphenyl	89		46 - 109	03/05/21 09:43	03/09/21 16:55	1

Lab Sample ID: LCS 320-467779/2-A
Matrix: Solid
Analysis Batch: 469014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467779

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
4,4'-DDD	16.7	18.1		ug/Kg		108	53 - 117
4,4'-DDE	16.7	18.5		ug/Kg		111	58 - 115
4,4'-DDT	16.7	18.9		ug/Kg		114	53 - 128
Aldrin	16.7	17.0		ug/Kg		102	55 - 109
alpha-BHC	16.7	16.6		ug/Kg		100	54 - 111
beta-BHC	16.7	16.4		ug/Kg		98	53 - 115
gamma-BHC (Lindane)	16.7	17.1		ug/Kg		102	54 - 112
delta-BHC	16.7	17.6		ug/Kg		106	39 - 124
cis-Chlordane	16.7	18.5		ug/Kg		111	54 - 113
trans-Chlordane	16.7	17.5		ug/Kg		105	55 - 114
Dieldrin	16.7	17.8		ug/Kg		107	54 - 117
Endosulfan I	16.7	16.3		ug/Kg		98	42 - 118
Endosulfan II	16.7	17.8		ug/Kg		107	48 - 118
Endosulfan sulfate	16.7	16.9		ug/Kg		102	51 - 113
Endrin	16.7	18.0		ug/Kg		108	58 - 115

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 320-467779/2-A
Matrix: Solid
Analysis Batch: 469014

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde	16.7	16.1		ug/Kg		96	40 - 100
Endrin ketone	16.7	17.8		ug/Kg		107	51 - 118
Heptachlor	16.7	17.0		ug/Kg		102	50 - 118
Heptachlor epoxide	16.7	17.4		ug/Kg		104	56 - 113
Methoxychlor	16.7	19.0		ug/Kg		114	52 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	88		47 - 107
DCB Decachlorobiphenyl	94		46 - 109

Lab Sample ID: LCS 320-467779/3-A
Matrix: Solid
Analysis Batch: 468726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 467779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	167	162		ug/Kg		97	43 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	94		47 - 107
DCB Decachlorobiphenyl	99		46 - 109

Lab Sample ID: 320-70552-A-2-O MS
Matrix: Solid
Analysis Batch: 468726

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 467779

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		19.2	12.4		ug/Kg	☼	65	53 - 117
4,4'-DDE	ND		19.2	13.1		ug/Kg	☼	68	58 - 115
4,4'-DDT	ND		19.2	12.0		ug/Kg	☼	63	53 - 128
Aldrin	ND		19.2	13.3		ug/Kg	☼	69	55 - 109
alpha-BHC	ND		19.2	13.5		ug/Kg	☼	70	54 - 111
beta-BHC	ND		19.2	11.5		ug/Kg	☼	60	53 - 115
gamma-BHC (Lindane)	ND		19.2	13.2		ug/Kg	☼	69	54 - 112
delta-BHC	ND		19.2	13.2		ug/Kg	☼	68	39 - 124
cis-Chlordane	ND		19.2	13.8		ug/Kg	☼	72	54 - 113
trans-Chlordane	ND		19.2	15.0		ug/Kg	☼	78	55 - 114
Dieldrin	ND		19.2	12.9		ug/Kg	☼	67	54 - 117
Endosulfan I	ND		19.2	12.4		ug/Kg	☼	65	42 - 118
Endosulfan II	ND		19.2	13.1		ug/Kg	☼	68	48 - 118
Endosulfan sulfate	ND		19.2	11.4		ug/Kg	☼	59	51 - 113
Endrin	ND		19.2	13.0		ug/Kg	☼	68	58 - 115
Endrin aldehyde	ND		19.2	9.25		ug/Kg	☼	48	40 - 100
Endrin ketone	ND		19.2	11.6		ug/Kg	☼	60	51 - 118
Heptachlor	ND		19.2	12.7		ug/Kg	☼	66	50 - 118
Heptachlor epoxide	ND		19.2	13.5		ug/Kg	☼	70	56 - 113
Methoxychlor	ND		19.2	11.5		ug/Kg	☼	60	52 - 123

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 320-70552-A-2-O MS
Matrix: Solid
Analysis Batch: 468726

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 467779

Surrogate	%Recovery	MS MS Qualifier	Limits
Tetrachloro-m-xylene	61		47 - 107
DCB Decachlorobiphenyl	49		46 - 109

Lab Sample ID: 320-70552-A-2-P MSD
Matrix: Solid
Analysis Batch: 468726

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 467779

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
4,4'-DDD	ND		18.9	15.3		ug/Kg	⊛	81	53 - 117	21	30	
4,4'-DDE	ND		18.9	15.8		ug/Kg	⊛	84	58 - 115	19	30	
4,4'-DDT	ND		18.9	14.6		ug/Kg	⊛	77	53 - 128	19	30	
Aldrin	ND		18.9	15.5		ug/Kg	⊛	82	55 - 109	16	30	
alpha-BHC	ND		18.9	15.6		ug/Kg	⊛	83	54 - 111	14	30	
beta-BHC	ND		18.9	14.6		ug/Kg	⊛	77	53 - 115	24	30	
gamma-BHC (Lindane)	ND		18.9	15.4		ug/Kg	⊛	82	54 - 112	15	30	
delta-BHC	ND		18.9	15.4		ug/Kg	⊛	82	39 - 124	16	30	
cis-Chlordane	ND		18.9	16.3		ug/Kg	⊛	86	54 - 113	16	30	
trans-Chlordane	ND		18.9	18.3		ug/Kg	⊛	97	55 - 114	20	30	
Dieldrin	ND		18.9	15.3		ug/Kg	⊛	81	54 - 117	17	30	
Endosulfan I	ND		18.9	14.2		ug/Kg	⊛	75	42 - 118	14	30	
Endosulfan II	ND		18.9	15.2		ug/Kg	⊛	81	48 - 118	15	30	
Endosulfan sulfate	ND		18.9	13.5		ug/Kg	⊛	71	51 - 113	17	30	
Endrin	ND		18.9	15.2		ug/Kg	⊛	80	58 - 115	15	30	
Endrin aldehyde	ND		18.9	12.0		ug/Kg	⊛	64	40 - 100	26	30	
Endrin ketone	ND		18.9	13.6		ug/Kg	⊛	72	51 - 118	16	30	
Heptachlor	ND		18.9	14.9		ug/Kg	⊛	79	50 - 118	16	30	
Heptachlor epoxide	ND		18.9	15.5		ug/Kg	⊛	82	56 - 113	14	30	
Methoxychlor	ND		18.9	14.4		ug/Kg	⊛	76	52 - 123	23	30	

Surrogate	%Recovery	MSD MSD Qualifier	Limits
Tetrachloro-m-xylene	73		47 - 107
DCB Decachlorobiphenyl	63		46 - 109

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 320-466279/1-A
Matrix: Solid
Analysis Batch: 466704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466279

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Lead	ND		1.0		mg/Kg		03/01/21 13:55	03/02/21 12:00		1	
Arsenic	ND		2.0		mg/Kg		03/01/21 13:55	03/02/21 12:00		1	

Lab Sample ID: LCS 320-466279/2-A
Matrix: Solid
Analysis Batch: 466704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466279

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Lead	25.0	23.3		mg/Kg		93	80 - 120	

Eurofins TestAmerica, Sacramento

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 320-466279/2-A
Matrix: Solid
Analysis Batch: 466704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	45.0		mg/Kg		90	80 - 120

Lab Sample ID: 320-70365-A-5-L MS
Matrix: Solid
Analysis Batch: 466704

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 466279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	6.6		24.5	28.9		mg/Kg		91	80 - 120
Arsenic	4.6		49.0	47.0		mg/Kg		87	80 - 120

Lab Sample ID: 320-70365-A-5-M MSD
Matrix: Solid
Analysis Batch: 466704

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 466279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Lead	6.6		24.8	31.6		mg/Kg		101	80 - 120	9	35
Arsenic	4.6		49.5	47.6		mg/Kg		87	80 - 120	1	35

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 320-466582/11-A
Matrix: Solid
Analysis Batch: 466865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.040		mg/Kg		03/02/21 12:45	03/02/21 15:06	1

Lab Sample ID: LCS 320-466582/12-A
Matrix: Solid
Analysis Batch: 466865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.166		mg/Kg		100	86 - 114

Lab Sample ID: LCSD 320-466582/13-A
Matrix: Solid
Analysis Batch: 466865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 466582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.167	0.162		mg/Kg		97	86 - 114	3	17

Lab Sample ID: 320-70535-B-7-C MS
Matrix: Solid
Analysis Batch: 466865

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 466582

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.206	0.232		mg/Kg	✱	101	86 - 114

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 320-70535-B-7-D MSD
Matrix: Solid
Analysis Batch: 466865

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 466582

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.216	0.238		mg/Kg	✱	99	86 - 114	3	17

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-70598-A-1 DU
Matrix: Solid
Analysis Batch: 466625

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	14.4		14.6		%		2	20



QC Association Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

GC Semi VOA

Prep Batch: 467779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	3546	
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	3546	
MB 320-467779/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-467779/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-467779/3-A	Lab Control Sample	Total/NA	Solid	3546	
320-70552-A-2-O MS	Matrix Spike	Total/NA	Solid	3546	
320-70552-A-2-P MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 468726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	8081A	467779
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	8081A	467779
MB 320-467779/1-A	Method Blank	Total/NA	Solid	8081A	467779
LCS 320-467779/3-A	Lab Control Sample	Total/NA	Solid	8081A	467779
320-70552-A-2-O MS	Matrix Spike	Total/NA	Solid	8081A	467779
320-70552-A-2-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	467779

Analysis Batch: 469014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-467779/2-A	Lab Control Sample	Total/NA	Solid	8081A	467779

Metals

Composite Batch: 465675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70365-A-5-L MS	Matrix Spike	Total/NA	Solid	Composite	
320-70365-A-5-M MSD	Matrix Spike Duplicate	Total/NA	Solid	Composite	

Prep Batch: 466279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	3050B	
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	3050B	
MB 320-466279/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 320-466279/2-A	Lab Control Sample	Total/NA	Solid	3050B	
320-70365-A-5-L MS	Matrix Spike	Total/NA	Solid	3050B	465675
320-70365-A-5-M MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	465675

Prep Batch: 466582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	7471A	
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	7471A	
MB 320-466582/11-A	Method Blank	Total/NA	Solid	7471A	
LCS 320-466582/12-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 320-466582/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
320-70535-B-7-C MS	Matrix Spike	Total/NA	Solid	7471A	
320-70535-B-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 466704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	6010B	466279
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	6010B	466279

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QC Association Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Metals (Continued)

Analysis Batch: 466704 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-466279/1-A	Method Blank	Total/NA	Solid	6010B	466279
LCS 320-466279/2-A	Lab Control Sample	Total/NA	Solid	6010B	466279
320-70365-A-5-L MS	Matrix Spike	Total/NA	Solid	6010B	466279
320-70365-A-5-M MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	466279

Analysis Batch: 466865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	7471A	466582
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	7471A	466582
MB 320-466582/11-A	Method Blank	Total/NA	Solid	7471A	466582
LCS 320-466582/12-A	Lab Control Sample	Total/NA	Solid	7471A	466582
LCSD 320-466582/13-A	Lab Control Sample Dup	Total/NA	Solid	7471A	466582
320-70535-B-7-C MS	Matrix Spike	Total/NA	Solid	7471A	466582
320-70535-B-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	466582

General Chemistry

Analysis Batch: 466625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70548-1	EB-9(0-0.5)	Total/NA	Solid	D 2216	
320-70548-3	EB-10(0-0.5)	Total/NA	Solid	D 2216	
320-70598-A-1 DU	Duplicate	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Client Sample ID: EB-9(0-0.5)

Lab Sample ID: 320-70548-1

Date Collected: 02/26/21 08:10

Matrix: Solid

Date Received: 02/26/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			466625	03/02/21 11:55	TCS	TAL SAC

Client Sample ID: EB-9(0-0.5)

Lab Sample ID: 320-70548-1

Date Collected: 02/26/21 08:10

Matrix: Solid

Date Received: 02/26/21 10:00

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.70 g	5 mL	467779	03/05/21 09:43	MBG	TAL SAC
Total/NA	Analysis	8081A		1			468726	03/09/21 20:04	K1D	TAL SAC
Total/NA	Prep	3050B			1.03 g	100 mL	466279	03/01/21 13:55	JP	TAL SAC
Total/NA	Analysis	6010B		1			466704	03/02/21 12:54	SP	TAL SAC
Total/NA	Prep	7471A			0.60 g	50 mL	466582	03/02/21 12:45	IM	TAL SAC
Total/NA	Analysis	7471A		1			466865	03/02/21 15:39	IM	TAL SAC

Client Sample ID: EB-10(0-0.5)

Lab Sample ID: 320-70548-3

Date Collected: 02/26/21 08:30

Matrix: Solid

Date Received: 02/26/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			466625	03/02/21 11:55	TCS	TAL SAC

Client Sample ID: EB-10(0-0.5)

Lab Sample ID: 320-70548-3

Date Collected: 02/26/21 08:30

Matrix: Solid

Date Received: 02/26/21 10:00

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.87 g	5 mL	467779	03/05/21 09:43	MBG	TAL SAC
Total/NA	Analysis	8081A		5			468726	03/09/21 20:23	K1D	TAL SAC
Total/NA	Prep	3050B			1.05 g	100 mL	466279	03/01/21 13:55	JP	TAL SAC
Total/NA	Analysis	6010B		1			466704	03/02/21 12:58	SP	TAL SAC
Total/NA	Prep	7471A			0.60 g	50 mL	466582	03/02/21 12:45	IM	TAL SAC
Total/NA	Analysis	7471A		1			466865	03/02/21 15:41	IM	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2897	02-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture



Method Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
6010B	Metals (ICP)	SW846	TAL SAC
7471A	Mercury (CVAA)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC
7471A	Preparation, Mercury	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70548-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70548-1	EB-9(0-0.5)	Solid	02/26/21 08:10	02/26/21 10:00	
320-70548-3	EB-10(0-0.5)	Solid	02/26/21 08:30	02/26/21 10:00	

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Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 320-70548-1

Login Number: 70548

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Garcia, Hilario A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 320-70548-1

Login Number: 70548

List Number: 2

Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-70441-2

Client Project/Site: Camden Ave and Malpas Drive SQE

For:

Cornerstone Earth Group
1220 Oakland Blvd
Suite 220
Walnut Creek, California 94085

Attn: Kurt Soenen



Authorized for release by:

3/19/2021 5:02:45 PM

Laura Turpen, Project Manager I
(916)374-4414

Laura.Turpen@Eurofinset.com

Designee for

Afsaneh Salimpour, Senior Project Manager
(925)484-1919

Afsaneh.Salimpour@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Job ID: 320-70441-2

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-70441-2

Comments

No additional comments.

Receipt

The samples were received on 2/24/2021 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.5° C.

GC Semi VOA

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 320-470656 and analytical batch 320-471160 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8081A: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 320-470656 and analytical batch 320-471160 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of 4,4'-DDE in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for gamma-BHC (Lindane) for the following sample: (320-70441-A-6-B MS). The primary column has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The following sample was diluted to bring the concentration of target analytes within the calibration range: EB-3 (1.5-2) (320-70441-6). Elevated reporting limits (RLs) are provided.

Method 8081A: The following sample was diluted due to abundance of target analytes: EB-5 (1.5-2) (320-70441-10). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method 8081A: Surrogate recovery for the following sample was outside control limits: EB-3 (1.5-2) (320-70441-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method Moisture: The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time of 14 days. The following samples in analytical batch 320-469790 were analyzed outside this time period: EB-3 (1.5-2) (320-70441-6) and EB-5 (1.5-2) (320-70441-10).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Client Sample ID: EB-3 (1.5-2)

Lab Sample ID: 320-70441-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	8.8	H F1	1.9		ug/Kg	1	✳	8081A	Total/NA
4,4'-DDE - DL	83	H	9.3		ug/Kg	5	✳	8081A	Total/NA

Client Sample ID: EB-5 (1.5-2)

Lab Sample ID: 320-70441-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	190	H	17		ug/Kg	10	✳	8081A	Total/NA
4,4'-DDT	130	H	17		ug/Kg	10	✳	8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Client Sample ID: EB-3 (1.5-2)

Lab Sample ID: 320-70441-6

Date Collected: 02/24/21 09:45

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 90.3

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
4,4'-DDT	8.8	H F1	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Aldrin	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
alpha-BHC	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
beta-BHC	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
gamma-BHC (Lindane)	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
delta-BHC	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
cis-Chlordane	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
trans-Chlordane	ND	H F1	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Dieldrin	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endosulfan I	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endosulfan II	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endosulfan sulfate	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endrin	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endrin aldehyde	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Endrin ketone	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Heptachlor	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Heptachlor epoxide	ND	H	1.9		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Methoxychlor	ND	H	3.7		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1
Toxaphene	ND	H	73		ug/Kg	☼	03/16/21 13:02	03/17/21 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		47 - 107	03/16/21 13:02	03/17/21 19:29	1
Tetrachloro-m-xylene	65		47 - 107	03/16/21 13:02	03/17/21 19:29	1
DCB Decachlorobiphenyl	70		46 - 109	03/16/21 13:02	03/17/21 19:29	1
DCB Decachlorobiphenyl	69		46 - 109	03/16/21 13:02	03/17/21 19:29	1

Method: 8081A - Organochlorine Pesticides (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	83	H	9.3		ug/Kg	☼	03/16/21 13:02	03/18/21 18:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	88		47 - 107	03/16/21 13:02	03/18/21 18:39	5
Tetrachloro-m-xylene	86		47 - 107	03/16/21 13:02	03/18/21 18:39	5
DCB Decachlorobiphenyl	101		46 - 109	03/16/21 13:02	03/18/21 18:39	5
DCB Decachlorobiphenyl	110	S1+	46 - 109	03/16/21 13:02	03/18/21 18:39	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7	H	0.1		%			03/12/21 12:14	1

Client Sample ID: EB-5 (1.5-2)

Lab Sample ID: 320-70441-10

Date Collected: 02/24/21 08:22

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 92.9

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	17		ug/Kg	☼	03/16/21 13:02	03/18/21 18:58	10
4,4'-DDE	190	H	17		ug/Kg	☼	03/16/21 13:02	03/18/21 18:58	10
4,4'-DDT	130	H	17		ug/Kg	☼	03/16/21 13:02	03/18/21 18:58	10
Aldrin	ND	H	17		ug/Kg	☼	03/16/21 13:02	03/18/21 18:58	10

Eurofins TestAmerica, Sacramento

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Client Sample ID: EB-5 (1.5-2)

Lab Sample ID: 320-70441-10

Date Collected: 02/24/21 08:22

Matrix: Solid

Date Received: 02/24/21 11:45

Percent Solids: 92.9

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
beta-BHC	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
gamma-BHC (Lindane)	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
delta-BHC	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
cis-Chlordane	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
trans-Chlordane	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Dieldrin	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Endosulfan I	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Endosulfan II	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Endosulfan sulfate	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Endrin	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Endrin aldehyde	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Endrin ketone	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Heptachlor	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Heptachlor epoxide	ND	H	17		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Methoxychlor	ND	H	35		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10
Toxaphene	ND	H	690		ug/Kg	✱	03/16/21 13:02	03/18/21 18:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	72		47 - 107	03/16/21 13:02	03/18/21 18:58	10
Tetrachloro-m-xylene	62		47 - 107	03/16/21 13:02	03/18/21 18:58	10
DCB Decachlorobiphenyl	76		46 - 109	03/16/21 13:02	03/18/21 18:58	10
DCB Decachlorobiphenyl	91		46 - 109	03/16/21 13:02	03/18/21 18:58	10

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1	H	0.1		%			03/12/21 12:14	1

Surrogate Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1	TCX2	DCBP1	DCBP2
		(47-107)	(47-107)	(46-109)	(46-109)
320-70441-6	EB-3 (1.5-2)	67	65	70	69
320-70441-6 - DL	EB-3 (1.5-2)	88	86	101	110 S1+
320-70441-6 MS	EB-3 (1.5-2)	56		55	
320-70441-6 MSD	EB-3 (1.5-2)	50		51	
320-70441-10	EB-5 (1.5-2)	72	62	76	91
LCS 320-470656/2-A	Lab Control Sample	78		88	
LCS 320-470656/3-A	Lab Control Sample	73		80	
MB 320-470656/1-A	Method Blank	76	82	81	83

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 320-470656/1-A
Matrix: Solid
Analysis Batch: 471160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470656

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
4,4'-DDE	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
4,4'-DDT	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Aldrin	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
alpha-BHC	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
beta-BHC	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
gamma-BHC (Lindane)	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
delta-BHC	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
cis-Chlordane	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
trans-Chlordane	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Dieldrin	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endosulfan I	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endosulfan II	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endosulfan sulfate	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endrin	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endrin aldehyde	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Endrin ketone	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Heptachlor	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Heptachlor epoxide	ND		1.7		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Methoxychlor	ND		3.4		ug/Kg		03/16/21 13:02	03/17/21 18:32	1
Toxaphene	ND		67		ug/Kg		03/16/21 13:02	03/17/21 18:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	76		47 - 107	03/16/21 13:02	03/17/21 18:32	1
Tetrachloro-m-xylene	82		47 - 107	03/16/21 13:02	03/17/21 18:32	1
DCB Decachlorobiphenyl	81		46 - 109	03/16/21 13:02	03/17/21 18:32	1
DCB Decachlorobiphenyl	83		46 - 109	03/16/21 13:02	03/17/21 18:32	1

Lab Sample ID: LCS 320-470656/2-A
Matrix: Solid
Analysis Batch: 471160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470656

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
4,4'-DDD	16.7	17.7		ug/Kg		106	53 - 117
4,4'-DDE	16.7	17.6		ug/Kg		106	58 - 115
4,4'-DDT	16.7	16.5		ug/Kg		99	53 - 128
Aldrin	16.7	17.2		ug/Kg		103	55 - 109
alpha-BHC	16.7	16.8		ug/Kg		101	54 - 111
beta-BHC	16.7	17.1		ug/Kg		102	53 - 115
gamma-BHC (Lindane)	16.7	16.7		ug/Kg		100	54 - 112
delta-BHC	16.7	17.0		ug/Kg		102	39 - 124
cis-Chlordane	16.7	16.5		ug/Kg		99	54 - 113
trans-Chlordane	16.7	16.9		ug/Kg		102	55 - 114
Dieldrin	16.7	17.1		ug/Kg		102	54 - 117
Endosulfan I	16.7	14.5		ug/Kg		87	42 - 118
Endosulfan II	16.7	16.1		ug/Kg		97	48 - 118
Endosulfan sulfate	16.7	17.1		ug/Kg		103	51 - 113
Endrin	16.7	16.6		ug/Kg		100	58 - 115

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QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 320-470656/2-A
Matrix: Solid
Analysis Batch: 471160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin aldehyde	16.7	14.5		ug/Kg		87	40 - 100
Endrin ketone	16.7	16.5		ug/Kg		99	51 - 118
Heptachlor	16.7	16.0		ug/Kg		96	50 - 118
Heptachlor epoxide	16.7	16.3		ug/Kg		98	56 - 113
Methoxychlor	16.7	15.6		ug/Kg		94	52 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	78		47 - 107
DCB Decachlorobiphenyl	88		46 - 109

Lab Sample ID: LCS 320-470656/3-A
Matrix: Solid
Analysis Batch: 471160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toxaphene	167	133		ug/Kg		80	43 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	73		47 - 107
DCB Decachlorobiphenyl	80		46 - 109

Lab Sample ID: 320-70441-6 MS
Matrix: Solid
Analysis Batch: 471160

Client Sample ID: EB-3 (1.5-2)
Prep Type: Total/NA
Prep Batch: 470656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	H	18.1	12.1		ug/Kg	✱	67	53 - 117
4,4'-DDE	68	H F2 E F1	18.1	52.8	E F1	ug/Kg	✱	-83	58 - 115
4,4'-DDT	8.8	H F1	18.1	16.7	F1	ug/Kg	✱	44	53 - 128
Aldrin	ND	H	18.1	11.6		ug/Kg	✱	64	55 - 109
alpha-BHC	ND	H	18.1	10.7		ug/Kg	✱	59	54 - 111
beta-BHC	ND	H	18.1	14.1		ug/Kg	✱	78	53 - 115
gamma-BHC (Lindane)	ND	H F2	18.1	18.2		ug/Kg	✱	101	54 - 112
delta-BHC	ND	H	18.1	12.8		ug/Kg	✱	71	39 - 124
cis-Chlordane	ND	H	18.1	17.4		ug/Kg	✱	96	54 - 113
trans-Chlordane	ND	H	18.1	11.3	F1	ug/Kg	✱	46	55 - 114
Dieldrin	ND	H	18.1	12.0		ug/Kg	✱	64	54 - 117
Endosulfan I	ND	H	18.1	10.2		ug/Kg	✱	55	42 - 118
Endosulfan II	ND	H	18.1	10.5		ug/Kg	✱	58	48 - 118
Endosulfan sulfate	ND	H	18.1	10.8		ug/Kg	✱	59	51 - 113
Endrin	ND	H	18.1	11.5		ug/Kg	✱	64	58 - 115
Endrin aldehyde	ND	H	18.1	9.24		ug/Kg	✱	51	40 - 100
Endrin ketone	ND	H	18.1	12.1		ug/Kg	✱	67	51 - 118
Heptachlor	ND	H	18.1	10.6		ug/Kg	✱	59	50 - 118
Heptachlor epoxide	ND	H	18.1	10.9		ug/Kg	✱	61	56 - 113
Methoxychlor	ND	H	18.1	10.5		ug/Kg	✱	58	52 - 123

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 320-70441-6 MS
Matrix: Solid
Analysis Batch: 471160

Client Sample ID: EB-3 (1.5-2)
Prep Type: Total/NA
Prep Batch: 470656

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Tetrachloro-m-xylene</i>	56		47 - 107
<i>DCB Decachlorobiphenyl</i>	55		46 - 109

Lab Sample ID: 320-70441-6 MSD
Matrix: Solid
Analysis Batch: 471160

Client Sample ID: EB-3 (1.5-2)
Prep Type: Total/NA
Prep Batch: 470656

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD MSD</i>		<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>		<i>RPD</i>	
				<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>RPD</i>	<i>Limit</i>	
4,4'-DDD	ND	H	18.3	12.2		ug/Kg	⊛	66	53 - 117	1	30	
4,4'-DDE	68	H F2 E F1	18.3	38.2	E F2 F1	ug/Kg	⊛	-161	58 - 115	32	30	
4,4'-DDT	8.8	H F1	18.3	14.1	F1	ug/Kg	⊛	29	53 - 128	17	30	
Aldrin	ND	H	18.3	11.5		ug/Kg	⊛	62	55 - 109	1	30	
alpha-BHC	ND	H	18.3	10.8		ug/Kg	⊛	59	54 - 111	1	30	
beta-BHC	ND	H	18.3	12.7		ug/Kg	⊛	69	53 - 115	11	30	
gamma-BHC (Lindane)	ND	H	18.3	14.0		ug/Kg	⊛	77	54 - 112	30	30	
delta-BHC	ND	H	18.3	12.1		ug/Kg	⊛	66	39 - 124	6	30	
cis-Chlordane	ND	H	18.3	14.7		ug/Kg	⊛	80	54 - 113	17	30	
trans-Chlordane	ND	H	18.3	11.0	F1	ug/Kg	⊛	44	55 - 114	3	30	
Dieldrin	ND	H	18.3	11.8		ug/Kg	⊛	62	54 - 117	2	30	
Endosulfan I	ND	H	18.3	9.88		ug/Kg	⊛	53	42 - 118	3	30	
Endosulfan II	ND	H	18.3	10.7		ug/Kg	⊛	58	48 - 118	2	30	
Endosulfan sulfate	ND	H	18.3	11.5		ug/Kg	⊛	63	51 - 113	7	30	
Endrin	ND	H	18.3	11.5		ug/Kg	⊛	63	58 - 115	0	30	
Endrin aldehyde	ND	H	18.3	9.27		ug/Kg	⊛	51	40 - 100	1	30	
Endrin ketone	ND	H	18.3	11.9		ug/Kg	⊛	65	51 - 118	2	30	
Heptachlor	ND	H	18.3	10.6		ug/Kg	⊛	58	50 - 118	0	30	
Heptachlor epoxide	ND	H	18.3	10.9		ug/Kg	⊛	60	56 - 113	0	30	
Methoxychlor	ND	H	18.3	10.7		ug/Kg	⊛	58	52 - 123	2	30	

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>Tetrachloro-m-xylene</i>	50		47 - 107
<i>DCB Decachlorobiphenyl</i>	51		46 - 109

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-71032-D-2 DU
Matrix: Solid
Analysis Batch: 469790

Client Sample ID: Duplicate
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>DU DU</i>		<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>RPD</i>	
			<i>Result</i>	<i>Qualifier</i>				<i>Limit</i>	
Percent Moisture	6.1		6.0		%		1	20	

QC Association Summary

Client: Cornerstone Earth Group
 Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

GC Semi VOA

Prep Batch: 470656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6	EB-3 (1.5-2)	Total/NA	Solid	3546	
320-70441-6 - DL	EB-3 (1.5-2)	Total/NA	Solid	3546	
320-70441-10	EB-5 (1.5-2)	Total/NA	Solid	3546	
MB 320-470656/1-A	Method Blank	Total/NA	Solid	3546	
LCS 320-470656/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 320-470656/3-A	Lab Control Sample	Total/NA	Solid	3546	
320-70441-6 MS	EB-3 (1.5-2)	Total/NA	Solid	3546	
320-70441-6 MSD	EB-3 (1.5-2)	Total/NA	Solid	3546	

Analysis Batch: 471160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656
MB 320-470656/1-A	Method Blank	Total/NA	Solid	8081A	470656
LCS 320-470656/2-A	Lab Control Sample	Total/NA	Solid	8081A	470656
LCS 320-470656/3-A	Lab Control Sample	Total/NA	Solid	8081A	470656
320-70441-6 MS	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656
320-70441-6 MSD	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656

Analysis Batch: 471844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6 - DL	EB-3 (1.5-2)	Total/NA	Solid	8081A	470656
320-70441-10	EB-5 (1.5-2)	Total/NA	Solid	8081A	470656

General Chemistry

Analysis Batch: 469790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70441-6	EB-3 (1.5-2)	Total/NA	Solid	D 2216	
320-70441-10	EB-5 (1.5-2)	Total/NA	Solid	D 2216	
320-71032-D-2 DU	Duplicate	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Client Sample ID: EB-3 (1.5-2)

Date Collected: 02/24/21 09:45

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			469790	03/12/21 12:14	KDB	TAL SAC

Client Sample ID: EB-3 (1.5-2)

Date Collected: 02/24/21 09:45

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-6

Matrix: Solid

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	5 mL	470656	03/16/21 13:02	TL	TAL SAC
Total/NA	Analysis	8081A		1			471160	03/17/21 19:29	K1D	TAL SAC
Total/NA	Prep	3546	DL		15.15 g	5 mL	470656	03/16/21 13:02	TL	TAL SAC
Total/NA	Analysis	8081A	DL	5			471844	03/18/21 18:39	AO	TAL SAC

Client Sample ID: EB-5 (1.5-2)

Date Collected: 02/24/21 08:22

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			469790	03/12/21 12:14	KDB	TAL SAC

Client Sample ID: EB-5 (1.5-2)

Date Collected: 02/24/21 08:22

Date Received: 02/24/21 11:45

Lab Sample ID: 320-70441-10

Matrix: Solid

Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.74 g	5 mL	470656	03/16/21 13:02	TL	TAL SAC
Total/NA	Analysis	8081A		10			471844	03/18/21 18:58	AO	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
California	State	2897	02-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

<u>Analysis Method</u>	<u>Prep Method</u>	<u>Matrix</u>	<u>Analyte</u>
D 2216		Solid	Percent Moisture



Method Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
3546	Microwave Extraction	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Cornerstone Earth Group
Project/Site: Camden Ave and Malpas Drive SQE

Job ID: 320-70441-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70441-6	EB-3 (1.5-2)	Solid	02/24/21 09:45	02/24/21 11:45	
320-70441-10	EB-5 (1.5-2)	Solid	02/24/21 08:22	02/24/21 11:45	

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CORNERSTONE EARTH GROUP Chain of Custody Record

198926

720-70441

Cornerstone Earth Group, Inc. 1259 Oakmead Pkwy Sunnyvale, California 94085 Phone: (408) 245-4600 Fax: (408) 245-4620 Project Name: Camden Ave and Malpas Drive SQE Site: Camden Ave and Malpas Drive Project Number: 336-10-2		Project Manager: Kurt Soenen Tel/Fax: (408) 605-3037 Analysis Turnaround Time <input checked="" type="checkbox"/> TAT if different from Below _____ <input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Sampler: Benjamin Trinh Date: 02/24/2021 Lab Contact: Afsaneh Salimpour Lab: Test America		COC No: 1 1 of 2 COCs Laboratory's Job No.		
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Hold	Laboratory's Sample Specific Notes:
EB-1 (0-0.5)	2/24/21	09:24	LINER	SOIL	1	XX		
EB-1 (3.5-4)		09:32				XX		
EB-2 (0-0.5)		08:47				XX		
EB-2 (3.5-4)		08:50				XX		
EB-3 (0-0.5)		09:40				XX		
EB-3 (1.5-2)		09:45				XX	X	
EB-4 (0-0.5)		09:18				XX	X	
EB-4 (1.5-2)		09:21				XX	X	
EB-5 (0-0.5)		08:19				XX	X	
EB-5 (1.5-2)		08:22				XX	X	
EB-6 (0-0.5)		10:00				XX	X	
EB-6 (1.5-2)		10:02				XX	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other _____ Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Sample Disposal <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please email results to Ben Trinh (btrinh@cornerstoneearth.com), Michael Chang (mchang@cornerstoneearth.com) and Kurt Soenen (ksoenen@cornerstoneearth.com). PLEASE REPORT RESULTS ON A DRY WEIGHT BASIS.								
Relinquished by:	Company: Cornerstone Earth Group	Date/Time: 2/24/21 11:45	Received by:	Company: FASJ	Date/Time: 2-24-21 11:45	21.5%		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:			



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Salimpour, Afsaneh F	Carrier Tracking No(s):	COC No: 320-213217-1											
Client Contact: Shipping/Receiving		E-Mail: Afsaneh.Salimpour@Eurofins.com	State of Origin: California	Page: Page 1 of 2											
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - California; State Program - California													
Address: 880 Riverside Parkway,		Job #: 320-70441-1													
City: West Sacramento		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Z - other (specify)													
State, Zip: CA, 95605		Other:													
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		Total Number of containers:													
Email:															
Project #: Camden Ave and Malpas Drive SQE															
Site:															
SSOW#:															
Due Date Requested: 3/2/2021															
TAT Requested (days):															
PO #:															
WO #:															
Project #:															
SSOW#:															
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=biological, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7471A/7471A Prep Mercury Only	6010B/3050B (MOD) Lead,As	8081A/3546 Pesticides, Standard List	Moisture/ (MOD) Local Method	7471A/7471A Prep Mercury Only (Hold)	6010B/3050B (MOD) Lead,As (Hold)	8081A/3546 Pesticides, Standard List (Hold)	Moisture/ (MOD) Local Method (Hold)	Special Instructions/Note:
EB-1 (0-0.5) (320-70441-1)	2/24/21	09:24 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-1 (3.5-4) (320-70441-2)	2/24/21	09:32 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-2 (0-0.5) (320-70441-3)	2/24/21	08:47 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-2 (3.5-4) (320-70441-4)	2/24/21	08:50 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-3 (0-0.5) (320-70441-5)	2/24/21	09:40 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-3 (1.5-2) (320-70441-6)	2/24/21	09:45 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-4 (0-0.5) (320-70441-7)	2/24/21	09:18 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-4 (1.5-2) (320-70441-8)	2/24/21	09:21 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1
EB-5 (0-0.5) (320-70441-9)	2/24/21	08:19 Pacific	Solid	Solid	X	X	X	X	X	X	X	X	X	X	1

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Method of Shipment: _____

Relinquished by: _____ Date/Time: 2-24-21
 Company: SJ
 Relinquished by: _____ Date/Time: 2-24-21 1905
 Company: DCS
 Relinquished by: _____ Date/Time: _____
 Company: _____

Custody Seals Intact: _____
 Δ Yes Δ No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 2-7

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months
 Special Instructions/QC Requirements: _____



Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 320-70441-2

Login Number: 70441

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Mullen, Joan

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 320-70441-2

Login Number: 70441

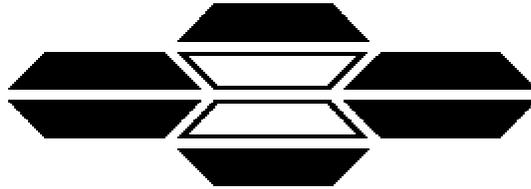
List Number: 2

Creator: Guzman, Juan

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ASBESTOS TEM LABORATORIES, INC.

**CARB Method 435
Polarized Light Microscopy
Analytical Report**

Laboratory Job # 1206-00616

3431 Ettie St.
Oakland, CA 94608
(510) 704-8930
FAX (510) 704-8429



ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866



NVLAP Lab Code: 101891-0
Oakland, CA

Mar/04/2021

Kurt Soenen
Cornerstone Earth Group, Inc.
1259 Oakmead Parkway
Sunnyvale, CA 94085

RE: LABORATORY JOB # 1206-00616
Polarized light microscopy analytical results for 3 bulk sample(s).
Job Site: 336-10-2
Job No.: Camden Ave and Malpas Drive

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

3431 Ettie St. • Oakland, CA 94608 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Contact: Kurt Soenen	Samples Submitted: 3	Report No. 372439
Address: Cornerstone Earth Group, Inc. 1259 Oakmead Parkway Sunnyvale, CA 94085	Samples Analyzed: 3	Date Submitted: Feb-25-21
	Job Site / No. Camden Ave and Malpas Drive 336-10-2	Date Reported: Mar-04-21

SAMPLE ID	POINTS COUNTED	ASBESTOS		LOCATION / DESCRIPTION
		%	TYPE	
EB-3(0-0.5)		<0.25%	None Detected	No Asbestos Detected
Lab ID # 1206-00616-001	400 - Total Points			
EB-5(0-0.5)		<0.25%	None Detected	No Asbestos Detected
Lab ID # 1206-00616-002	400 - Total Points			
EB-8(0-0.5)		<0.25%	None Detected	No Asbestos Detected
Lab ID # 1206-00616-003	400 - Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer *R. Mc. Burt*
Asbestos TEM Laboratories, Inc.

Analys *Olara Dingman*
3431 Ettie St., Oakland, CA 94608 PH. (510) 704-8930



Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94035
Tel: (408) 245-4600
Fax: (408) 245-4620
RE: Camden @ Malpas

Work Order No.: 2102202

Dear Kurt Soenen:

Torrent Laboratory, Inc. received 5 sample(s) on February 26, 2021 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink that reads "Kathie Evans". The signature is written in a cursive style and is positioned above a horizontal line.

Kathie Evans
Project Manager

March 04, 2021

Date



Date: 3/4/2021

Client: Cornerstone Earth Group

Project: Camden @ Malpas

Work Order: 2102202

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.



Sample Result Summary

Report prepared for: Kurt Soenen
Cornerstone Earth Group

Date Received: 02/26/21

Date Reported: 03/04/21

SV-2-5

2102202-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1	1.5	3.4	7.9

SV-2-15

2102202-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Trichloroethylene	ETO15	1	0.81	2.7	22
Tetrachloroethylene	ETO15	1	1.5	3.4	7.8

SV-1-15

2102202-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Trichloroethylene	ETO15	1	0.81	2.7	4.6
Tetrachloroethylene	ETO15	1	1.5	3.4	9.7

SV-1-5

2102202-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
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All compounds were non-detectable for this sample.

SV-1-5 (IPA)

2102202-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Propanol (Isopropyl Alcohol)	ETO15	2400	3100	30000	160000



SAMPLE RESULTS

Report prepared for: Kurt Soenen
Cornerstone Earth Group

Date/Time Received: 02/26/21, 3:10 pm
Date Reported: 03/04/21

Client Sample ID:	SV-2-5	Lab Sample ID:	2102202-001A
Project Name/Location:	Camden @ Malpas	Sample Matrix:	Air
Project Number:		Certified Clean WO # :	
Date/Time Sampled:	02/26/21 / 12:08	Received PSI :	12.0
Canister/Tube ID:	A7462	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 3/1/21 12:45:00PM
Prep Batch ID: 1129691	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		03/02/21	5:01	BA	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	5:01	BA	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:01	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	5:01	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:01	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		03/02/21	5:01	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	7.9	1.17		03/02/21	5:01	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	95 %			03/02/21	5:01	BA	454646



SAMPLE RESULTS

Report prepared for: Kurt Soenen
Cornerstone Earth Group

Date/Time Received: 02/26/21, 3:10 pm
Date Reported: 03/04/21

Client Sample ID:	SV-2-15	Lab Sample ID:	2102202-002A
Project Name/Location:	Camden @ Malpas	Sample Matrix:	Air
Project Number:		Certified Clean WO # :	
Date/Time Sampled:	02/26/21 / 12:08	Received PSI :	12.1
Canister/Tube ID:	R3560	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 3/1/21 12:45:00PM
Prep Batch ID: 1129691	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		03/02/21	5:27	BA	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	5:27	BA	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:27	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	5:27	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:27	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	22	4.10		03/02/21	5:27	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	7.8	1.15		03/02/21	5:27	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			03/02/21	5:27	BA	454646



SAMPLE RESULTS

Report prepared for: Kurt Soenen
Cornerstone Earth Group

Date/Time Received: 02/26/21, 3:10 pm
Date Reported: 03/04/21

Client Sample ID:	SV-1-15	Lab Sample ID:	2102202-003A
Project Name/Location:	Camden @ Malpas	Sample Matrix:	Air
Project Number:		Certified Clean WO # :	
Date/Time Sampled:	02/26/21 / 13:37	Received PSI :	12.4
Canister/Tube ID:	1439	Corrected PSI :	
Collection Volume (L):		SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 3/1/21 12:45:00PM
Prep Batch ID: 1129691	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		03/02/21	6:18	BA	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	6:18	BA	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	6:18	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	6:18	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	6:18	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	4.6	0.86		03/02/21	6:18	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	9.7	1.43		03/02/21	6:18	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	98 %			03/02/21	6:18	BA	454646



SAMPLE RESULTS

Report prepared for: Kurt Soenen
Cornerstone Earth Group

Date/Time Received: 02/26/21, 3:10 pm
Date Reported: 03/04/21

Client Sample ID:	SV-1-5	Lab Sample ID:	2102202-004A
Project Name/Location:	Camden @ Malpas	Sample Matrix:	Air
Project Number:		Certified Clean WO # :	
Date/Time Sampled:	02/26/21 / 14:13	Received PSI :	12.8
Canister/Tube ID:	8300	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 3/1/21 12:45:00PM
Prep Batch ID: 1129691	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		03/02/21	5:52	BA	454646
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		03/02/21	5:52	BA	454646
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:52	BA	454646
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		03/02/21	5:52	BA	454646
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		03/02/21	5:52	BA	454646
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		03/02/21	5:52	BA	454646
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		03/02/21	5:52	BA	454646
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	97 %			03/02/21	5:52	BA	454646



SAMPLE RESULTS

Report prepared for: Kurt Soenen
Cornerstone Earth Group

Date/Time Received: 02/26/21, 3:10 pm
Date Reported: 03/04/21

Client Sample ID:	SV-1-5 (IPA)	Lab Sample ID:	2102202-005A
Project Name/Location:	Camden @ Malpas	Sample Matrix:	Air
Project Number:		Certified Clean WO # :	
Date/Time Sampled:	02/26/21 / 14:13	Received PSI :	12.0
Canister/Tube ID:	R3561	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 3/1/21	12:45:00PM
Prep Batch ID: 1129691	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	2,400	3100	30000	160000	65,040.65		03/01/21	23:31	BA	454646
(S) 4-Bromofluorobenzene	ETO15	2,400	65	135	90 %			03/01/21	23:31	BA	454646



MB Summary Report

Work Order:	2102202	Prep Method:	TO15-P	Prep Date:	03/01/21	Prep Batch:	1129691
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	3/1/2021	Analytical Batch:	454646
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Vinyl Chloride	0.088	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
trans-1,2-Dichloroethene	0.12	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Benzene	0.14	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
Toluene	0.20	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Naphthalene	0.24	0.50	ND	
(S) 4-Bromofluorobenzene			92	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2102202	Prep Method:	TO15-P	Prep Date:	03/01/21	Prep Batch:	1129691
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	3/1/2021	Analytical Batch:	454646
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50		8.00	117	119	1.70	65 - 135	30	
Benzene	0.14	0.50		8.00	94.9	94.6	0.396	65 - 135	30	
Trichloroethylene	0.15	0.50		8.00	104	99.9	4.17	65 - 135	30	
Toluene	0.20	0.50		8.00	100	100	0.125	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	94.8	99.7	5.01	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	96.3	96.8		50 - 150		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Cornerstone Earth Group

Date and Time Received: 2/26/2021 3:10:00PM

Project Name: Camden @ Malpas

Received By: Katherene Evans

Work Order No.: 2102202

Physically Logged By: Katherene Evans

Checklist Completed By: Katherene Evans

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Temperature: °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: na pH Adjusted by: na

Comments:

Summas rec'd at ambient temperature



Login Summary Report

Client ID: TL5119 Cornerstone Earth Group
Project Name: Camden @ Malpas
Project # :
Report Due Date: 3/5/2021

QC Level: II
TAT Requested: 5+ day:5
Date Received: 2/26/2021
Time Received: 3:10 pm

Comments:

Work Order # : 2102202

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2102202-001A	SV-2-5	02/26/21 12:08	Air				VOC_A_PCE+T	
Sample Note: PCE & Breakdowns plus IPA								
2102202-002A	SV-2-15	02/26/21 12:08	Air				VOC_A_PCE+T	
2102202-003A	SV-1-15	02/26/21 13:37	Air				VOC_A_PCE+T	
2102202-004A	SV-1-5	02/26/21 14:13	Air				VOC_A_PCE+T	
2102202-005A	SV-1-5 (IPA)	02/26/21 14:13	Air				VOC_A_PCE+T	
Sample Note: Shroud sample (IPA only)								



483 Sinclair Frontage Road
 Milpitas, CA 95035
 Phone: 408.263.5258
 FAX: 408.263.8293
 www.torrentlab.com

CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO
2102202

Company Name: <u>Cornerstone Earth Group</u> <input type="checkbox"/> Env. <input type="checkbox"/> Special	Project #:	PO #:
Address: <u>1259 Oakmead Pkwy</u>	Project Name: <u>Camden @ Malpas</u>	
City: <u>Sunnyvale</u> State: <u>CA</u> Zip Code: <u>94085</u>	Comments: <u>cc. btrinh@cornerstoneearth.com</u>	
Telephone: <u>408 245 4600</u> Cell:	SAMPLER: <u>Ross Trilite</u>	Quote #:
REPORT TO: <u>Kurt Soeren</u> BILL TO: <u>Same</u>	EMAIL: <u>ksoeren@cornerstoneearth.com</u>	

TURNAROUND TIME:	SAMPLE TYPE:	REPORT FORMAT:	ANALYSIS REQUESTED
<input type="checkbox"/> 10 Work Days <input type="checkbox"/> 4 Work Days <input type="checkbox"/> 1 Work Day <input type="checkbox"/> 7 Work Days <input type="checkbox"/> 3 Work Days <input type="checkbox"/> Noon - Nxt Day <input checked="" type="checkbox"/> 5 Work Days <input type="checkbox"/> 2 Work Days <input type="checkbox"/> 2-8 Hours	<input type="checkbox"/> Indoor Air <input type="checkbox"/> Ambient Air <input checked="" type="checkbox"/> Soil/Gas Vapor <input type="checkbox"/> Other	<input type="checkbox"/> Level II - Std. <input type="checkbox"/> Excel - EDD <input type="checkbox"/> EDF <input type="checkbox"/> Std.-EDD <input type="checkbox"/> QC Level III <input type="checkbox"/> QC Level IV	

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	CANISTER I.D.	Initial Vac. ("Hg)	Final Vac. ("Hg)	Flow Controller #	TO 15 for PCEs Breakdowns TO 15 SIM	TO 17	TO 15 for Isohexanol	REMARKS
D011A	SV-2-5	2-26-21 12:02-12:08	SV	1	12	A7462	29.7	4.5	E69	X		X	
D02A	SV-2-15	2-26-21 12:34-12:40	SV	1	1	R3560	30	4.5	E59	X		X	
D03A	SV-1-15	2-26-21 1:31-1:37	SV	1	1	N1439	30	5.0	E11	X		X	
D04A	SV-1-5	2-26-21 2:07-2:13	SV	1	1	8300	30	4.0	E108	X		X	
D05A	SV-1-5 (IPA)	2-26-21 2:08-2:13	Shroud Atm	1	1	R3561	30	5.0	E10			X	

1	Relinquished By: <u>Ross Trilite</u> Print: <u>Ross Trilite</u> Date: <u>2/26/21</u> Time: <u>3:10</u>	Received By: <u>Lanue P. Cas</u> Print: <u>Lanue P. Cas</u> Date: <u>2-26-21</u> Time: <u>15:10</u>
2	Relinquished By: _____ Print: _____ Date: _____ Time: _____	Received By: _____ Print: _____ Date: _____ Time: _____

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment: None Sample seals intact? Yes NO N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

Log In By: _____ Date: _____ Labeled By: _____ Date: _____ Temp: _____ °C Page _____ of _____ Rev. 1

Summas rec'd @ ambient temp



Cornerstone Earth Group
1259 Oakmead Parkway
Sunnyvale, California 94035
Tel: (408) 245-4600
Fax: (408) 245-4620
RE: Camden @ Malpas

Work Order No.: 2105201

Dear Ron Helm:

Torrent Laboratory, Inc. received 8 sample(s) on May 19, 2021 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Kathie Evans
Project Manager

May 26, 2021

Date



Date: 5/26/2021

Client: Cornerstone Earth Group

Project: Camden @ Malpas

Work Order: 2105201

CASE NARRATIVE

Unless otherwise indicated in the following narrative, no issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Laboratory, Inc.



Sample Result Summary

Report prepared for: Ron Helm
Cornerstone Earth Group

Date Received: 05/19/21

Date Reported: 05/26/21

SVP-7 2105201-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Trichloroethylene	ETO15	1	0.81	2.7	4.2
Tetrachloroethylene	ETO15	1	1.5	3.4	10

SVP-6 2105201-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1	1.5	3.4	9.9

SVP-5 2105201-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1	1.5	3.4	9.5

SVP-4 2105201-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1	1.5	3.4	11

SVP-3 2105201-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1	1.5	3.4	29

SVP-2 2105201-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Propanol (Isopropyl Alcohol)	ETO15	1	1.3	12	91
Tetrachloroethylene	ETO15	1	1.5	3.4	11

SVP-2(IPA) 2105201-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Propanol (Isopropyl Alcohol)	ETO15	2400	3100	30000	110000

SVP-1 2105201-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Tetrachloroethylene	ETO15	1	1.5	3.4	7.0



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID: SVP-7	Lab Sample ID: 2105201-001A
Project Name/Location: Camden @ Malpas	Sample Matrix: Soil Vapor
Project Number: 336-10-3	
Date/Time Sampled: 05/19/21 / 14:31	Certified Clean WO # :
Canister/Tube ID: A11710	Received PSI : 11.0
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 5/20/21	7:30:00PM
Prep Batch ID: 1131884	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/21/21	17:53	BA	456688
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/21/21	17:53	BA	456688
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	17:53	BA	456688
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/21/21	17:53	BA	456688
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	17:53	BA	456688
Trichloroethylene	ETO15	1.00	0.81	2.7	4.2	0.78		05/21/21	17:53	BA	456688
Tetrachloroethylene	ETO15	1.00	1.5	3.4	10	1.47		05/21/21	17:53	BA	456688
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			05/21/21	17:53	BA	456688



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID: SVP-6	Lab Sample ID: 2105201-002A
Project Name/Location: Camden @ Malpas	Sample Matrix: Soil Vapor
Project Number: 336-10-3	
Date/Time Sampled: 05/19/21 / 15:01	Certified Clean WO # :
Canister/Tube ID: A7548	Received PSI : 11.4
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 5/20/21	7:30:00PM
Prep Batch ID: 1131884	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/21/21	18:19	BA	456688
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/21/21	18:19	BA	456688
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:19	BA	456688
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/21/21	18:19	BA	456688
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:19	BA	456688
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/21/21	18:19	BA	456688
Tetrachloroethylene	ETO15	1.00	1.5	3.4	9.9	1.46		05/21/21	18:19	BA	456688
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			05/21/21	18:19	BA	456688



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID: SVP-5	Lab Sample ID: 2105201-003A
Project Name/Location: Camden @ Malpas	Sample Matrix: Soil Vapor
Project Number: 336-10-3	
Date/Time Sampled: 05/19/21 / 15:39	Certified Clean WO # :
Canister/Tube ID: R3555	Received PSI : 12.1
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 5/20/21	7:30:00PM
Prep Batch ID: 1131884	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/21/21	18:44	BA	456688
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/21/21	18:44	BA	456688
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:44	BA	456688
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/21/21	18:44	BA	456688
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/21/21	18:44	BA	456688
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/21/21	18:44	BA	456688
Tetrachloroethylene	ETO15	1.00	1.5	3.4	9.5	1.40		05/21/21	18:44	BA	456688
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	97 %			05/21/21	18:44	BA	456688



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID: SVP-4	Lab Sample ID: 2105201-004A
Project Name/Location: Camden @ Malpas	Sample Matrix: Soil Vapor
Project Number: 336-10-3	
Date/Time Sampled: 05/19/21 / 16:10	Certified Clean WO # :
Canister/Tube ID: 6315	Received PSI : 11.3
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 5/22/21	6:00:00AM
Prep Batch ID: 1131887	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/22/21	9:45	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	9:45	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	9:45	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	9:45	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	9:45	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	9:45	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	11	1.62		05/22/21	9:45	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	96 %			05/22/21	9:45	BA	456691



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID: SVP-3	Lab Sample ID: 2105201-005A
Project Name/Location: Camden @ Malpas	Sample Matrix: Soil Vapor
Project Number: 336-10-3	
Date/Time Sampled: 05/19/21 / 16:46	Certified Clean WO # :
Canister/Tube ID: R3557	Received PSI : 11.1
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 5/22/21	6:00:00AM
Prep Batch ID: 1131887	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/22/21	16:07	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	16:07	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:07	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	16:07	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:07	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	16:07	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	29	4.28		05/22/21	16:07	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	92 %			05/22/21	16:07	BA	456691



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID: SVP-2	Lab Sample ID: 2105201-006A
Project Name/Location: Camden @ Malpas	Sample Matrix: Soil Vapor
Project Number: 336-10-3	
Date/Time Sampled: 05/19/21 / 17:24	Certified Clean WO # :
Canister/Tube ID: N1439	Received PSI : 12.2
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 5/22/21	6:00:00AM
Prep Batch ID: 1131887	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	91	36.99		05/22/21	16:32	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	16:32	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:32	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	16:32	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:32	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	16:32	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	11	1.62		05/22/21	16:32	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	95 %			05/22/21	16:32	BA	456691



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID:	SVP-2(IPA)	Lab Sample ID:	2105201-007A
Project Name/Location:	Camden @ Malpas	Sample Matrix:	Soil Vapor
Project Number:	336-10-3	Certified Clean WO # :	
Date/Time Sampled:	05/19/21 / 17:24	Received PSI :	11.1
Canister/Tube ID:	A7561	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 5/22/21	6:00:00AM
Prep Batch ID: 1131887	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	2,400	3100	30000	110000	44,715.45		05/22/21	11:24	BA	456691
(S) 4-Bromofluorobenzene	ETO15	2,400	65	135	95 %			05/22/21	11:24	BA	456691



SAMPLE RESULTS

Report prepared for: Ron Helm
Cornerstone Earth Group

Date/Time Received: 05/19/21, 7:00 pm
Date Reported: 05/26/21

Client Sample ID: SVP-1	Lab Sample ID: 2105201-008A
Project Name/Location: Camden @ Malpas	Sample Matrix: Soil Vapor
Project Number: 336-10-3	
Date/Time Sampled: 05/19/21 / 18:11	Certified Clean WO # :
Canister/Tube ID: A11718	Received PSI : 11.7
Collection Volume (L):	Corrected PSI :
SDG:	

Prep Method: TO15-P	Prep Batch Date/Time: 5/22/21	6:00:00AM
Prep Batch ID: 1131887	Prep Analyst: BALI	

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		05/22/21	16:57	BA	456691
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		05/22/21	16:57	BA	456691
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:57	BA	456691
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		05/22/21	16:57	BA	456691
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		05/22/21	16:57	BA	456691
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		05/22/21	16:57	BA	456691
Tetrachloroethylene	ETO15	1.00	1.5	3.4	7.0	1.03		05/22/21	16:57	BA	456691
(S) 4-Bromofluorobenzene	ETO15	1.00	65	135	93 %			05/22/21	16:57	BA	456691



MB Summary Report

Work Order:	2105201	Prep Method:	TO15-P	Prep Date:	05/20/21	Prep Batch:	1131884
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	5/20/2021	Analytical Batch:	456688
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.32	0.50	ND		
1,1-Difluoroethane	0.13	5.0	ND		
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND		
Chloromethane	0.99	2.0	ND		
Vinyl Chloride	0.088	0.50	ND		
1,3-Butadiene	0.15	0.50	ND		
Bromomethane	0.17	0.50	ND		
Chloroethane	0.31	0.50	ND		
Trichlorofluoromethane	0.099	0.50	ND		
1,1-Dichloroethene	0.21	0.50	ND		
Freon 113	0.13	0.50	ND		
Carbon Disulfide	0.12	0.50	ND		
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND		
Methylene Chloride	0.20	3.0	ND		
Acetone	0.17	5.0	ND		
trans-1,2-Dichloroethene	0.12	0.50	ND		
Hexane	0.13	0.50	ND		
MTBE	0.12	0.50	ND		
tert-Butanol	0.20	0.50	ND		
Diisopropyl ether (DIPE)	0.18	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.078	0.50	ND		
cis-1,2-Dichloroethene	0.21	0.50	ND		
Chloroform	0.20	0.50	ND		
Vinyl Acetate	0.22	0.50	ND		
Carbon Tetrachloride	0.18	0.50	ND		
1,1,1-Trichloroethane	0.15	0.50	ND		
2-Butanone (MEK)	0.13	0.50	ND		
Ethyl Acetate	0.13	0.50	0.28		
Tetrahydrofuran	0.15	0.50	ND		
Benzene	0.14	0.50	0.24		
TAME	0.16	0.50	ND		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	ND		
1,4-Dioxane	0.50	1.0	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
Toluene	0.20	0.50	ND		
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		



MB Summary Report

Work Order:	2105201	Prep Method:	TO15-P	Prep Date:	05/20/21	Prep Batch:	1131884
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	5/20/2021	Analytical Batch:	456688
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
Cyclohexane	0.50	0.50	ND	
Benzyl Chloride	0.20	0.50	ND	
Heptane	0.13	0.50	ND	
(S) 4-Bromofluorobenzene			100	



MB Summary Report

Work Order:	2105201	Prep Method:	TO15-P	Prep Date:	05/22/21	Prep Batch:	1131887
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	5/22/2021	Analytical Batch:	456691
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	0.32	0.50	ND		
1,1-Difluoroethane	0.13	5.0	0.52		
1,2-Dichlorotetrafluoroethane	0.20	0.50	ND		
Chloromethane	0.99	2.0	ND		
Vinyl Chloride	0.088	0.50	ND		
1,3-Butadiene	0.15	0.50	ND		
Bromomethane	0.17	0.50	ND		
Chloroethane	0.31	0.50	ND		
Trichlorofluoromethane	0.099	0.50	ND		
1,1-Dichloroethene	0.21	0.50	ND		
Freon 113	0.13	0.50	ND		
Carbon Disulfide	0.12	0.50	ND		
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND		
Methylene Chloride	0.20	3.0	ND		
Acetone	0.17	5.0	ND		
trans-1,2-Dichloroethene	0.12	0.50	ND		
Hexane	0.13	0.50	ND		
MTBE	0.12	0.50	ND		
tert-Butanol	0.20	0.50	ND		
Diisopropyl ether (DIPE)	0.18	0.50	ND		
1,1-Dichloroethane	0.13	0.50	ND		
ETBE	0.078	0.50	ND		
cis-1,2-Dichloroethene	0.21	0.50	ND		
Chloroform	0.20	0.50	ND		
Vinyl Acetate	0.22	0.50	0.23		
Carbon Tetrachloride	0.18	0.50	ND		
1,1,1-Trichloroethane	0.15	0.50	ND		
2-Butanone (MEK)	0.13	0.50	0.13		
Ethyl Acetate	0.13	0.50	0.24		
Tetrahydrofuran	0.15	0.50	0.15		
Benzene	0.14	0.50	0.19		
TAME	0.16	0.50	ND		
1,2-Dichloroethane (EDC)	0.10	0.50	ND		
Trichloroethylene	0.15	0.50	ND		
1,2-Dichloropropane	0.17	0.50	ND		
Bromodichloromethane	0.11	0.50	ND		
1,4-Dioxane	0.50	1.0	ND		
trans-1,3-Dichloropropene	0.23	0.50	ND		
Toluene	0.20	0.50	ND		
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	ND		
cis-1,3-Dichloropropene	0.093	0.50	ND		
Tetrachloroethylene	0.22	0.50	ND		



MB Summary Report

Work Order:	2105201	Prep Method:	TO15-P	Prep Date:	05/22/21	Prep Batch:	1131887
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	5/22/2021	Analytical Batch:	456691
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
1,1,2-Trichloroethane	0.11	0.50	ND		
Dibromochloromethane	0.13	0.50	ND		
1,2-Dibromoethane (EDB)	0.096	0.50	ND		
2-Hexanone	0.16	0.50	ND		
Ethyl Benzene	0.15	0.50	ND		
Chlorobenzene	0.13	0.50	ND		
1,1,1,2-Tetrachloroethane	0.12	0.50	ND		
m,p-Xylene	0.23	0.50	ND		
o-Xylene	0.070	0.50	ND		
Styrene	0.11	0.50	ND		
Bromoform	0.13	0.50	ND		
1,1,2,2-Tetrachloroethane	0.12	0.50	ND		
4-Ethyl Toluene	0.11	0.50	ND		
1,3,5-Trimethylbenzene	0.061	0.50	ND		
1,2,4-Trimethylbenzene	0.12	0.50	ND		
1,4-Dichlorobenzene	0.12	0.50	ND		
1,3-Dichlorobenzene	0.22	0.50	ND		
1,2-Dichlorobenzene	0.18	0.50	ND		
Hexachlorobutadiene	0.17	0.50	ND		
1,2,4-Trichlorobenzene	0.29	0.50	ND		
Naphthalene	0.24	0.50	ND		
Cyclohexane	0.50	0.50	ND		
Benzyl Chloride	0.20	0.50	ND		
Heptane	0.13	0.50	ND		
(S) 4-Bromofluorobenzene			95		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	2105201	Prep Method:	TO15-P	Prep Date:	05/20/21	Prep Batch:	1131884
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	5/20/2021	Analytical Batch:	456688
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	130	123	5.53	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	99.1	94.5	4.78	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	100	99.5	0.751	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	103	100	2.09	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	103	99.3	3.46	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	104	103		50 - 150		

Work Order:	2105201	Prep Method:	TO15-P	Prep Date:	05/22/21	Prep Batch:	1131887
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	5/22/2021	Analytical Batch:	456691
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	126	124	1.90	65 - 135	30	
Benzene	0.14	0.50	0.52	8.00	95.3	95.7	0.392	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	104	106	1.55	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	99.3	98.6	0.632	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	103	103	0.485	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	99.3	99.3		50 - 150		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

<p>B - Indicates when the analyte is found in the associated method or preparation blank</p> <p>D - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p>E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p>H- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p>J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p>NA - Not Analyzed</p> <p>N/A - Not Applicable</p> <p>ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.</p> <p>NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p>R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p>S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p>X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>



Sample Receipt Checklist

Client Name: Cornerstone Earth Group

Project Name: Camden @ Malpas

Work Order No.: 2105201

Date and Time Received: 5/19/2021 7:00:00PM

Received By: Helena Ueng

Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? Yes
Chain of custody signed when relinquished and received? Yes
Chain of custody agrees with sample labels? Yes
Custody seals intact on sample bottles? Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present
Shipping Container/Cooler In Good Condition? Yes
Samples in proper container/bottle? Yes
Samples containers intact? Yes
Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes
Container/Temp Blank temperature in compliance? Temperature: °C
Water-VOA vials have zero headspace? No VOA vials submitted
Water-pH acceptable upon receipt? N/A
pH Checked by: N/A pH Adjusted by: N/A

Comments:

Summa canisters received at ambient temperature



Login Summary Report

Client ID:	TL5119 Cornerstone Earth Group	QC Level:	II
Project Name:	Camden @ Malpas	TAT Requested:	5+ day:5
Project # :	336-10-3	Date Received:	5/19/2021
Report Due Date:	5/26/2021	Time Received:	7:00 pm
Comments:	Per Ross, project manager is Ron Helms instead of Kurt S		
Work Order # :	2105201		

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
2105201-001A	SVP-7	05/19/21 14:31	Air				VOC_A_PCE+T	
Sample Note:		PCE & Breakdowns plus IPA (leak check)						
2105201-002A	SVP-6	05/19/21 15:01	Air				VOC_A_PCE+T	
2105201-003A	SVP-5	05/19/21 15:39	Air				VOC_A_PCE+T	
2105201-004A	SVP-4	05/19/21 16:10	Air				VOC_A_PCE+T	
2105201-005A	SVP-3	05/19/21 16:46	Air				VOC_A_PCE+T	
2105201-006A	SVP-2	05/19/21 17:24	Air				VOC_A_PCE+T	
2105201-007A	SVP-2(IPA)	05/19/21 17:24	Air				VOC_A_PCE+T	
Sample Note:		-007A: Shroud sample (IPA only)						
2105201-008A	SVP-1	05/19/21 18:11	Air				VOC_A_PCE+T	



483 Sinclair Frontage Road
 Milpitas, CA 95035
 Phone: 408.263.5258
 FAX: 408.263.8293
 www.torrentlab.com

CHAIN OF CUSTODY

LAB WORK ORDER NO
2105201

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: Cornerstone Earth Group. Env. Special Project #: _____ PO #: _____
 Address: 1259 Oakmead Pkwy Project Name: Camden @ Malpas
 City: Sunnyvale State: CA Zip Code: 94085 Comments: cc btrinh@cornerstoneearth.com
 Telephone: 408 245 4600 Cell: _____ SAMPLER: Ross Timline Quote #: _____
 REPORT TO: Kurt Soenen cc. btrinh@cornerstoneearth.com MAIL: ksoenen@cornerstoneearth.com

TURNAROUND TIME: 10 Work Days 7 Work Days 5 Work Days 4 Work Days 3 Work Days 2 Work Days 1 Work Day Noon - Nxt Day 2-8 Hours

SAMPLE TYPE: Indoor Air Ambient Air Soil/Gas Vapor Other

REPORT FORMAT: Level II - Std. Excel - EDD EDF Std.-EDD QC Level III QC Level IV

Initial Vac. ("Hg) _____ Final Vac. ("Hg) _____ Flow Controller # _____

TO 15 PCE & Breakdown Products TO 15 SIM TO 17 TO 15 for 2 Propanol

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	CANISTER I.D.	Initial Vac. ("Hg)	Final Vac. ("Hg)	Flow Controller #	TO 15 PCE & Breakdown Products	TO 15 SIM	TO 17	TO 15 for 2 Propanol	REMARKS
001A	SVP-7	5/19/21 2:25-2:31	SV	1	IL	A11710	29	5	E115	X				
002A	SVP-6	5/19/21 2:55-3:01		1	Summa	A7548	29	4	EG0	X				
003A	SVP-5	5/19/21 3:33-3:39		1		R3555	29	4.5	E4	X				
004A	SVP-4	5/19/21 4:04-4:10		1		G315	30	5	E92	X				
005A	SVP-3	5/19/21 4:40-4:46		1		R3557	30	4.5	E106	X				
006A	SVP-2	5/19/21 5:18-5:24		1		N1439	30	4	E99	X				
007A	SVP-2(IPA)	5/19/21 5:18-5:24	Shroud Atm	1		A7561	30	6	E47			X		
008A	SVP-1	5/19/21 6:01-6:11	SV	1	✓	A11718	30	5	E28	X				

1 Relinquished By: Ross Timline Print: _____ Date: 5/19/21 Time: 7:00 Received By: Helena Key Print: _____ Date: 5/19/21 Time: 7:19:00

2 Relinquished By: _____ Print: _____ Date: _____ Time: _____ Received By: _____ Print: _____ Date: _____ Time: _____

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment D/S Sample seals intact? Yes NO N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.
 Log In By: _____ Date: _____ Labeled By: _____ Date: _____ Temp _____ °C Page ___ of ___ Rev. 1