

Phase II Environmental Site Assessment Report

2519 and 2535 Pulgas Avenue
East Palo Alto, California 94303

Sycamore Real Estate

2555 Pulgas Avenue, Building A | East Palo Alto, California 94303

January 17, 2020 | Project No. 403576002



Geotechnical | Environmental | Construction Inspection & Testing | Forensic Engineering & Expert Witness

Geophysics | Engineering Geology | Laboratory Testing | Industrial Hygiene | Occupational Safety | Air Quality | GIS

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants

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Mr. Lorenzo Brooks

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Respectfully submitted,
NINYO & MOORE



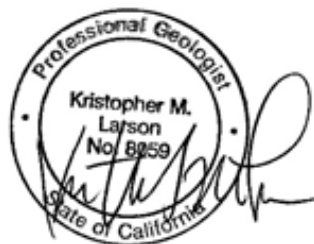
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1 INTRODUCTION

Ninyo & Moore was retained by Sycamore Real Estate (Sycamore) to perform a Phase II Environmental Site Assessment (ESA) on a multi-parcel property identified as the Thunder Project located at 2519 Pulgas Avenue and 2535 Pulgas Avenue in East Palo Alto, California (Site, Figure 1). The work was conducted in general accordance with our proposal dated October 1, 2019.

The Site is comprised of two contiguous San Mateo County Assessor's Parcels, numbered 063121370 and 063131350. One parcel, 2519 Pulgas Avenue, is currently an empty lot surrounded by a locked fence, and one parcel, 2535 Pulgas Avenue, is currently occupied by Touchatt Trucking Company. The combined Site is approximately 6.61 acres in a commercial area of East Palo Alto.

Ninyo & Moore's Phase I ESA Report (Ninyo & Moore, 2019a) identified two recognized environmental conditions for the Site: the former Site use for 2519 Pulgas Avenue includes a cut flower hothouse and agricultural land with documented pesticide contamination, and petroleum hydrocarbon impacts related to the on-Site oil and gas separator and aboveground storage tanks at 2535 Pulgas Avenue. The Site is also associated with two old Leaking Underground Storage Tank (LUST) cases at each 2519 Pulgas Avenue and 2535 Pulgas Avenue.

During our Phase II activities, Ninyo & Moore advanced thirteen borings to a maximum depth of 15 feet below ground surface (bgs) and installed four soil vapor wells, to collect groundwater, soil, and soil vapor samples at the Site. These samples were collected to determine if historical Site impacts could potentially pose a risk to future on-Site receptors.

2 BACKGROUND

The Site consists of approximately 6.61 acres in a commercial area of East Palo Alto, California. The Site is bordered on the north by a vacant field and Sycamore Real Estate offices, to the east and west by commercial businesses, and to the south by the Ravenswood Family Health Clinic.

Ninyo & Moore's Phase I indicates the Site was originally developed as early as 1939 for agricultural use. In the late 1940s, buildings were constructed for use as residential and agricultural buildings, and in the late 1950s hot houses for growing flowers were constructed. The hot houses on the northern portion of the Site were demolished in the early 1980s, and in 1984 Touchatt Trucking Company started operations at 2535 Pulgas Avenue. The northern portion of the Site has been used to store and repair vehicles to the present day. The remaining hot

houses on the southern portion of the Site were demolished in the late 1990s, and it remains a vacant and undeveloped lot.

2535 Pulgas Avenue consists of an office building, storage areas, truck servicing and tire change areas. The majority of 2535 Pulgas Avenue is paved and is used as a storage space for trucks, cars, and equipment. The Site also has two above-ground storage tanks (ASTs); a 250-gallon waste oil AST, and a 900-gallon diesel AST, and one oil and grease separator.

The southern portion of the Site, 2519 Pulgas Avenue, is a vacant field associated with an ongoing Site Cleanup Program Case No. 41S0302 (GeoTracker ID SL0608191196). According to San Francisco Bay Regional Water Quality Control Board (SFRWQCB) files, the southern portion of the Site, the vacant lot, and the adjacent property to the south (presently the Ravenswood family health clinic) were all historically part of the Iwasaki Nursery. The nursery had three on-site Underground Storage Tanks (USTs) and pesticide contamination was found in the soil. Impacts include DDD/DDE/DDT and other insecticides/fumicides/pesticides/herbicides in shallow soil. This case was opened in February 2008 and split by address; 2519 Pulgas Avenue is the active portion of the case, and the southern portion of the property was granted closure in 2015 as Ravenswood Family Health Clinic.

The Site is also associated with two closed LUST cases, according to San Mateo County Health Environmental Health Services (SMCHEHS), and SFRWQCB files. The Site's northern half, 2535 Pulgas Avenue, is associated with the LUST case Touchatt Trucking in GeoTracker with the RWQCB case number 41-0572 (GeoTracker ID T0608100546 and SMCHEHS Case Number 890007). Two USTs, a 2,000-gallon waste oil UST and a 1,000-gallon gasoline UST, were removed from the Site in 1989 along with stained soil from underground releases. Four groundwater monitoring wells were installed in 1990 and sampled semi-annually for two years for petroleum hydrocarbon contamination; the wells were destroyed in 1996 after no contamination was detected. Additional investigation occurred after 1992 due to a gasoline leak at 2535 Pulgas Avenue, and the property was given closure in 1997. 2519 Pulgas Avenue is associated with the LUST case Iwasaki Nursery, SFRWQCB case number 41-0149 (GeoTracker ID T0608100141 and SMCHEHS Case number 890010). 2519 Pulgas Avenue had five USTs, two of which (a 500-gallon gasoline UST and a 1,000-gallon waste oil UST) were removed in 1988, and the other three (a 10,000-gallon diesel UST, a 2,000-gallon diesel UST and a 1,000-gallon gasoline UST) were removed in 1997.

3 PRE-FIELD ACTIVITIES

Ninyo & Moore conducted the following pre-field activities prior to implementing the Phase II ESA.

3.1 Permitting

Prior to conducting any field activities at the Site, Ninyo & Moore obtained two soil boring permits (19-1798 and 19-1799) and provided 48 hours' notice to the inspector as required. Copies of the SMCHEHS permits are included in Appendix A.

3.2 Health and Safety Plan

Ninyo & Moore prepared a Site-specific Health and Safety Plan (HASP) to protect Site workers and the general public from potential hazards associated with drilling, chemical exposure, dust and associated field work being performed during field activities. The HASP included a map to the closest emergency medical facility. Ninyo & Moore reviewed the HASP with field personnel prior to the start of each day of field work, and field personnel signed the acknowledgement form attached to the HASP indicating they understood it and would abide by its provisions.

3.3 Utility Locating

Prior to conducting field activities, Ninyo & Moore personnel marked out the drilling area and the locations of the proposed borings with white paint a minimum of 48 hours prior to subsurface disturbance and notified Underground Service Alert (USA) as required by California law. USA personnel subsequently marked utility locations in the project area or indicated there were no conflicts. Additionally, Ninyo & Moore procured the services of 1st Call Utility Locating of El Cerrito, California, a private utility locator, on November 11, 2019. 1st Call Utility Locating verified the locations of the underground utilities marked by USA, and indicated the presence of additional subsurface utilities. No conflicts were encountered with any of the proposed boring locations.

4 FIELD ACTIVITIES

Field activities performed at the Site included advancing thirteen borings, installing four soil vapor wells, collecting soil, groundwater, and soil vapor samples, decontamination activities, Site restoration, and handling of investigation-derived waste (IDW). On November 25, 2019, Ninyo & Moore procured the services of VTS Drilling LLC (VTS) of Hayward, California (C57 license No. 916085) to advance thirteen borings (B1 through B13) using hand tooling from the surface to 5 feet bgs and a direct push track-mounted drill rig for depths below 5 feet below ground surface (bgs).

Borings B1 through B13 were advanced in a grid pattern at 2519 Pulgas Avenue and 2535 Pulgas Avenue to determine whether contaminants of potential concern from former agricultural and trucking activities on-Site have impacted Site groundwater, soil, and/or soil vapor. Boring locations are shown on Figure 2.

Ten borings (B1 through B4, B6 through B10, and B12) were advanced to between 1 and 2 feet bgs for the collection of shallow soil samples. Two borings (B5 and B11) were advanced to 15 bgs for the collection of groundwater and shallow soil, and one boring (B13) was advanced to 5.5 feet bgs on the eastern boundary of 2535 Pulgas to install a soil vapor well. Three soil vapor wells were installed adjacent to B5, B6, and B11.

Soils were logged in the field by a Ninyo & Moore geologist under the direction of a State of California professional geologist according to the Unified Soil Classification System. In order to evaluate potential organic vapors in soils at each boring, representative soils were placed in re-sealable plastic bags, which were allowed to equilibrate for a minimum of 20 minutes, with the headspace in these bags subsequently screened with a photoionization detector for the presence of organic vapors.

In order to limit potential for cross-contamination, down-hole drilling equipment and non-disposable sampling equipment were decontaminated between boring and sampling locations using a steam cleaner.

4.1 Soil Boring Installation and Sampling Methodology

Ten borings (B1 through B4, B6 through B10, and B12) were advanced to between 1 and 2 feet bgs for the collection of shallow soil samples. VTS advanced the shallow borings with a hand auger to either 1 foot or 2 feet bgs, and soil samples were collected directly from the hand auger bucket. Soil samples were collected in laboratory-provided sample jars; which were labeled with the boring identification, time, date, sampler, and sample depth and transferred to an ice-filled cooler pending transport to the analytical laboratory. The samples were transported under chain-of-custody (COC) documentation to Torrent Laboratory, Inc. of Milpitas, California (Torrent), a California state-certified laboratory and analyzed for the following:

- Total petroleum hydrocarbons (TPH) as diesel (TPHd) and motor oil (TPHmo) by Environmental Protection Agency (EPA) Method 8015,
- Title 22 metals by EPA Method 6010B/7471A, and
- Organochlorine pesticides (OCPs) by EPA Method 8081B.

4.2 Groundwater Boring Installation and Sampling Methodology

Two borings (B5 and B11) were advanced to approximately 15 feet bgs at the Site for groundwater sample collection (Figure 2).

Following the boring advancement, a 1-inch diameter screened polyvinyl chloride casing was lowered into the boring. Depth to groundwater was tagged with a water level meter prior to the collection of the groundwater samples. The groundwater samples were collected in laboratory-provided sample jars (1-liter amber jars); which were labeled with the boring identification, time, date, sampler, and sample depth; placed in re-sealable plastic bags and transferred to an ice-filled cooler pending transport to the analytical laboratory. Groundwater samples were transported under chain-of-custody (COC) documentation to Torrent and analyzed for the following:

- TPHd and TPHmo by EPA Method 8015 and
- Volatile organic compounds (VOCs) by EPA Method 8260B.

Following sampling activities, the borings were abandoned and sealed using neat cement grout and a tremie pipe in accordance with SMCHEHS guidelines.

4.3 Soil Vapor Probe Installation and Sampling Methodology

VTS installed four soil vapor wells (B5, B6, B11, and B13) following the EPA/RWQCB / Department of Toxic Substances Control (DTSC) Advisory (EPA / RWQCB / DTSC, 2015) as described below.

Four soil vapor well locations were advanced with a hand auger to approximately 5.5 feet bgs (B5, B6 and B13) and 6.0 feet bgs (B11). At each location, vapor well tips were installed at either 5.0 feet bgs (B5, B6 and B13) or 5.5 feet bgs (B11) within the center of a 1-foot sand pack using a tremie pipe. Each soil vapor well included one 1-inch stainless steel vapor screen with the well tips attached to ¼-inch Teflon™ tubing. The sand packs extend 0.5 foot above and 0.5 foot below each vapor well tip, and 1 foot of dry bentonite was installed above the sand pack. The top of the probe sand pack was a minimum of 3.5 feet bgs. The soil vapor wells were completed to surface grade with neat cement grout and finished at grade with well boxes. A soil vapor well construction diagram is provided on Figure 3.

On December 18, 2019, Ninyo & Moore collected one round of soil vapor samples from each of the four soil vapor sampling locations as over 48 hours had elapsed since their installations. Soil vapor sampling was performed in accordance with the EPA / SFRWQCB / DTSC Advisory (EPA /

RWQCB / DTSC, 2015). The soil vapor well sampling was not conducted during, or within 5 days of a significant rain event (0.5 inches or greater within a 24-hour period).

The soil vapor samples were collected using 1-liter Summa® vacuum canisters. Sample trains were comprised of the 1-liter Summa® sample canister, a 6-liter stainless steel Summa® vacuum canister and stainless steel manifolds and valves connected to the soil vapor probes and Vapor Pin® using Teflon™ tubing and Swagelok® fittings. Pre-sample purging was performed using the 6-liter vacuum canisters. The manifolds, filters, gauges, flow controllers and Summa® canisters were supplied by Eurofins Laboratories (Eurofins), a California-certified analytical laboratory located in Folsom, California. The flow controllers were pre-set by the laboratory to allow approximately 150 milliliters per minute (mL/min) flow rate.

Prior to sampling, the manifold was connected to the soil vapor sampling probe with the Teflon™ tubing, and a shut-in test was performed by opening the purge canister with the sample valve in the closed position. At the onset of the shut-in test, the initial vacuum and time were recorded on field notes. The shut-in test continued for approximately 2 minutes. If the vacuum pressure remained constant, the shut-in test was considered successful (leak free). If the vacuum pressure changed, the manifold fittings were re-checked and tightened, and the shut-in test was repeated until the vacuum pressure remained constant.

Prior to collecting samples, a purge volume of the collection manifold and Teflon™ tubing was calculated and three volumes were purged. The purge volume was monitored by the change in pressure, not time. The purge beginning time, initial purge canister vacuum, end time and final vacuum were recorded on soil vapor sampling data sheets included as Appendix B.

Subsequent to purging, the purge canister valve was closed and the sample canister valve was opened to begin sample collection. A shroud was placed over the sample train and helium gas was pumped into the shroud for the duration of sample collection in order to test for leaks in the sample train and the probe head integrity. The leak detection agent helium was continually monitored and a concentration of at least 20 percent (%) helium was maintained in the shroud. Leak detection agent concentrations in the shroud were documented on the field datasheets allowing for calculation of the magnitude of atmospheric leakage should a concentration of helium be detected in sample analytical results. The RWQCB and the DTSC allow for a maximum 5% leakage of ambient air into a sample container before the results are considered to be compromised. With 20% helium maintained within the shroud, any helium detection over 1% in the sample would be considered compromised.

The sampling was monitored by change in pressure in the sample canister. The sampling start time, initial sample canister vacuum, end time and final vacuum were recorded on soil vapor sampling data sheets. Sample canister valves were closed when the remaining vacuum was approximately -4 inches of mercury (in Hg). Sample canisters were not allowed to reach 0.0 in Hg, which would indicate that no vacuum remained in the vacuum canister. Following sample collection, the Summa[®] canister sample valve was closed, and canisters were capped.

The sample canisters were stored in the shade and protected from significant changes in temperature while being transported under COC documentation to Eurofins. The soil vapor samples were analyzed for the following:

- VOCs by EPA Method TO-15 and
- Oxygen, methane and helium by ASTM Method D-1946.

Ninyo & Moore's soil vapor sampling field sheets for this event are presented in Appendix B.

4.4 Investigation-Derived Waste

IDW generated from the Phase II ESA consisted of soil cuttings and decontamination water, which were placed in properly labeled 55-gallon steel drum and placed in a secure location on Site. The IDW drum is being temporarily stored on the Site pending characterization and transportation. Following waste characterization, the drums will be transported off Site to an appropriate disposal facility and the manifests will be forwarded to Sycamore upon receipt.

5 PHASE II FINDINGS

The findings of Ninyo & Moore's Phase II ESA are presented below. Soil analytical results are summarized on Tables 1 and 2, groundwater analytical results are summarized on Table 3, and soil vapor results are summarized on Table 4. Copies of the laboratory certified analytical reports, including COC documentation, are provided in Appendix C.

5.1 Site Geology

In general, the Site is underlain by gravely silty sand to approximately 1 foot bgs, underlain by silty clay, and below 3 feet bgs increasing in sand content. The Site has been explored to a total depth of 15 feet bgs during this investigation.

5.2 Soil Analytical Results

Ninyo & Moore evaluated the soil analytical results using the SFRWQCB Tier 1 Environmental Screening Levels (ESLs) and ESLs for Construction Workers dated 2019 (Rev. 2). TPH and OCP analytical results are presented on Table 1. Title 22 Metals analytical results are presented on Table 2.

5.2.1 TPHs

- TPHmo was detected in 12 of the 13 samples at concentrations ranging from 12.2 milligrams per kilogram (mg/kg) to 4,900 mg/kg. Three soil samples (B4-2, B3-1, and B1-1) exceeded Tier 1 ESL of 1,600 mg/kg. None of these concentrations exceed the Construction Worker ESL of 54,000 mg/kg.
- TPHd was detected in 10 of the 13 samples at concentrations ranging from 2.42 mg/kg to 322 mg/kg. One soil sample exceeds the Tier 1 ESL of 260 mg/kg. None of these concentrations exceed the Construction Worker ESL of 1,100 mg/kg.

5.2.2 OCPs

Alpha-chlordane, gamma-chlordane, delta-BHC, chlordane, dieldrin, 4,4-DDD, 4,4-DDE, 4,4-DDT, endrin, and heptachlor epoxide were each above their respective method detection limits. Tier 1 ESL exceedances are discussed below:

- Chlordane was detected in 7 of the 13 samples at concentrations ranging from 31 micrograms per kilogram (µg/kg) to 713 µg/kg. These concentrations exceed the Tier 1 ESL of 8.5 µg/kg, but do not exceed the Construction Worker ESL of 14,000 µg/kg.
- Dieldrin was detected in 12 of the 13 samples at concentrations ranging from 3.64 µg/kg to 2,110 µg/kg. These concentrations exceed the Tier 1 ESL of 0.46 µg/kg. One concentration exceeds the Construction Worker ESL of 1,100 µg/kg.
- 4,4-DDE was detected in each of the 13 samples at concentrations ranging from 26 µg/kg to 1,600 µg/kg. Three of these concentrations exceed the Tier 1 ESL of 330, but do not exceed the Construction Worker ESL of 57,000 µg/kg.
- 4,4-DDT was detected in 8 of the 13 samples at concentrations ranging from 3.69 µg/kg to 1,560 µg/kg. These concentrations exceed the Tier 1 ESL of 1.1 µg/kg but do not exceed the Construction Worker ESL of 57,000 µg/kg.
- Endrin was detected in 1 sample at a concentration of 23.2 µg/kg. This concentration exceeds the Tier 1 ESL of 1.1 µg/kg but does not exceed the Construction Worker ESL of 74,000 µg/kg.
- Heptachlor epoxide was detected in 1 sample at a concentration of 2.38 µg/kg. This concentration exceeds the Tier 1 ESL of 0.18 µg/kg but does not exceed the Construction Worker ESL of 1,900 µg/kg.

5.2.3 Metals

Concentrations of arsenic, barium, chromium, cobalt, copper, lead, nickel, and vanadium were detected above their respective practical quantitation limits. Any screening level exceedances are discussed below:

- Vanadium was detected in each of the 6 samples at concentrations ranging from 34.8 mg/kg to 42.2 mg/kg. These concentrations exceed the Tier 1 ESL of 18 mg/kg, but do not exceed the Construction Worker ESL of 470 mg/kg.

5.2.4 Waste Classification

Chromium, chlordane, and total DDD, DDE, and DDT were detected in excess of the California Code of Regulations (CCR), Title 22 Division guidelines for Characterization of Hazardous Waste and the Code of Federal Regulations, Part 40, Title 261 in samples B1-1, B7-1, and B11-1. These samples were further analyzed using a Soluble Threshold Limit Concentration (STLC) or Toxicity Characteristic Leaching Procedure (TCLP) Waste Extraction Test (WET) in order to evaluate the solubility of each of these contaminants.

- The results of the WET test for chromium for sample B1-1 do not exceed the STLC for chromium.
- Both the STLC and TCLP WET for chlordane did not exceed the method detection limit
- A WET was not conducted for total DDD, DDE, and DDT as these concentrations in samples B2-2, B7-1 and B11-1 also exceed the Total Threshold Limit Concentration (TTLC) of 1 mg/kg, which makes these samples Resource Conservation and Recovery Act (RCRA)-hazardous.

5.3 Groundwater Analytical Results

Ninyo & Moore evaluated the groundwater analytical results using the SFRWQCB 2019 Tier 1 ESLs (Rev. 2). TPH and VOC analytical results in groundwater are presented on Table 3.

5.3.1 TPHs

- TPHd was detected at concentrations of 0.195 milligrams per liter (mg/L) and 0.222 mg/L in samples B5-GW and B11-GW, respectively. These concentrations exceed the Tier 1 ESL of 0.100 mg/L.
- There is no residential or commercial ESL for TPHmo in groundwater.

5.3.2 VOCs

Concentrations of benzene and methyl tert-butyl ether were detected above their respective practical quantitation limits. No VOCs were detected above their respective ESLs.

5.4 Soil Vapor Analytical Results

Ninyo & Moore evaluated the soil vapor analytical results using the SFRWQCB Tier 1 ESLs dated 2019 (Rev. 2). Methane, oxygen, helium and VOC analytical results are presented on Table 4.

5.4.1 Fixed Gases

- Methane was detected in one sample at a concentration of 0.074%
- Helium was not detected in any of the 4 samples
- Oxygen was detected at concentrations ranging from 1.1% to 20.0%

5.4.2 VOCs

Concentrations of toluene, 1,2,4-trimethylbenzene, 4-ethyltoluene, and xylenes were detected above their respective reporting limits. None of the VOCs were detected above their respective ESLs.

6 CONCLUSIONS AND RECOMMENDATIONS

Ninyo & Moore's Phase I ESA (Ninyo & Moore, 2019) indicated that the Site should be investigated to determine whether Site groundwater, soil, and/or soil vapor has been affected by historical property uses.

Based on the results of the Phase II ESA, Site soil vapor has not been affected by VOCs but Site groundwater has been impacted by TPHd. Additionally, soil at the Site has been impacted by TPHd, TPHmo, and OCP compounds. OCPs were detected in soil samples collected from three of the borings (B2, B7 and B11) at concentrations exceeding federal hazardous waste criteria. Future Site development plans should include either the removal or capping of shallow soils impacted by OCPs to protect future Site receptors.

7 LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in Site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-Site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject Site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed Site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject Site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report may be relied upon by, and is intended exclusively for, the client. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than those listed above is undertaken at said parties' sole risk.

8 REFERENCES

- Cal EPA / RWQCB / DTSC, 2015. Advisory, Active Soil Gas Investigations; California Environmental Protection Agency / Regional Water Quality Control Board/ California Department of Toxic Substance Control; dated July.
- Ninyo & Moore 2019. Phase I Environmental Site Assessment, San Pablo/Potrero Properties, 11335 and 11341 San Pablo Avenue and 6111, 6115-6119 Potrero Avenue, El Cerrito, California. July 17.
- RWQCB, 2019. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board. Dated 2019 (Rev. 2).



TABLES

Table 1 – Soil Analytical Results - TPHs and OCPs																		
Sample ID	Depth (feet bgs)	Date Collected	TPHs		OCPs													
			TPHmo	TPHd	alpha-chlordane	gamma-chlordane	delta-BHC	Chlordane	Chlordane STLC	Chlordane TCLP	Dieldrin	4,4-DDD	4,4-DDE	4,4-DDT	DDD/DDE/DDT	Endrin	Heptachlor Epoxide	Other OCPs
			mg/kg		µg/kg													
B1-1	1.0	11/25/19	2,680	120 x	5.46 J	6.70 J	ND<3.1	61.3 J	--	--	6.10 J	ND<11	26.0 J	ND<2.6	26	ND<3.8	2.38 J	ND
B2-2	2.0	11/25/19	105	16.1 x	18.9 J	23.2	ND<1.6	225	--	--	74.3	236	824	3.69 J	1,064	ND<1.9	ND<0.78	ND
B3-1	1.0	11/25/19	2,970	243 x	3.86 J	ND<3.3	ND<3.1	ND<42	--	--	6.98 J	ND<11	51.1	ND<2.6	51.1	ND<3.8	ND<1.6	ND
B4-2	2.0	11/25/19	4,900	322 x	ND<3.5	ND<3.3	ND<3.1	ND<42	--	--	3.64 J	ND<11	7.60 J	ND<2.6	7.6	ND<3.8	ND<1.6	ND
B5-1	1.0	11/25/19	260	166 x	3.84 J	ND<3.3	ND<3.1	ND<42	--	--	12.8 J	ND<11	4.64 J	3.80 J	8.44	ND<3.8	ND<1.6	ND
B6-2	2.0	11/25/19	21.4	ND<0.85	1.82 J	2.29 J	ND<1.6	ND<21	--	--	ND<1.5	ND<5.7	3.36 J	1.76 J	5.12	ND<1.9	ND<0.78	ND
B7-1	1.0	11/25/19	42.2	6.66 x	54.6	129	ND<1.6	713	ND<1.3	ND<0.0013	2,110	118	1,600	1,560	3,278	23.2	ND<0.78	ND
B8-2	2.0	11/25/19	ND<3.2	ND<0.85	ND<1.7	3.27 J	ND<1.6	25.4 J	--	--	67.9	ND<5.7	46	14.5 J	60.5	ND<1.9	ND<0.78	ND
B9-1	1.0	11/25/19	13.4	2.42 x	30.3	39.9	ND<1.6	320	--	--	95.9	17.8 J	229	194	440.8	ND<1.9	ND<0.78	ND
B10-2	2.0	11/25/19	12.2	3.03 x	ND<1.7	ND<1.6	4.49 J	ND<21	--	--	3.54 J	ND<5.7	16.3 J	ND<1.3	16.3	ND<1.9	ND<0.78	ND
B11-1	1.0	11/25/19	19.7	4.60 x	56.3	90.8	ND<1.6	649	ND<1.3	ND<0.0013	337	43.7	432	568	1,044	ND<1.9	ND<0.78	ND
B12-2	2.0	11/25/19	12.9	ND<0.85	2.92 J	3.26 J	10.1 J	31.0 J	--	--	21.4	ND<5.7	22.2	13.1 J	35.3	ND<1.9	ND<0.78	ND
Screening Levels																		
Tier 1 ESLs ¹			1,600	260	NE	NE	NE	8.5	--	--	0.46	2,700	330	1.1	NE	1.1	0.18	Various
Construction Worker ESLs ²			54,000	1,100	NE	NE	NE	14,000	--	--	1,100	81,000	57,000	57,000	NE	74,000	1,900	Various
STLC ³ x 10			NE	NE	NE	NE	NE	2,500	--	--	8,000	NE	NE	NE	1,000	200	4,700	Various
TCLP ⁴ x 20			NE	NE	NE	NE	NE	600	--	--	NE	NE	NE	NE	NE	400	160	Various
TTLC ⁵			NE	NE	NE	NE	NE	2,500	--	--	8,000	NE	NE	NE	1,000	200	4,700	Various
Notes:																		
TPH - total petroleum hydrocarbons																		
OCPs - organochlorine pesticides, analyzed by United States Environmental Protection Agency (USEPA) Method 8081B																		
TPHmo - TPH as motor oil, analyzed by USEPA Method 8015B																		
TPHd - TPH as diesel, analyzed by USEPA Method 8015B																		
bgs – below ground surface																		
mg/kg – milligrams per kilogram																		
µg/kg - micrograms per kilogram																		
x - not typical of diesel reference standard, peaks within diesel range quantified as diesel																		
J - concentration is considered estimated																		
ND - not detected																		
ND<X – analyte not detected at or above the method detection limit X																		
-- - not analyzed/not applicable																		
1. San Francisco Bay Regional Water Quality Control Board (RWQCB) Tier 1 Environmental Screening Levels (ESLs), 2019 (Rev.2)																		
2. RWQCB Construction Worker ESLs, 2019 (Rev.2). Most conservative value has been tabulated.																		
3. STLC - Soluble Threshold Limit Concentration, California Code of Regulations, Title 22, Divison 4.5, Chapter 11, Article 3, Section 66261.24, 10x concentration noted, which triggers analytical testing																		
4. TCLP - Toxicity Characteristic Leaching Procedure, Code of Federal Regulations, Part 40, Title 261, 20x concentration noted, which triggers analytical testing																		
5. TTLC - Total Threshold Limit Concentration, Code of Federal Regulations, Part 40, Title 261																		
Bold indicates concentration exceeds screening level.																		

Table 2 – Soil Analytical Results - Title 22 Metals																				
Sample ID	Depth (feet bgs)	Date Collected	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium STLC	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			mg/kg						mg/L	mg/kg										
B1-1	1.0	11/25/19	ND<4.85	4.13	120	ND<4.85	ND<4.85	50.0	0.986	9.60	34.8	32.0	ND<0.48	ND<4.85	48.4	ND<4.85	ND<4.85	ND<4.85	39.3	47.9
B2-2	2.0	11/25/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B3-1	1.0	11/25/19	ND<4.63	3.62	142	ND<4.63	ND<4.63	33.2	--	9.89	32.0	21.5	ND<0.46	ND<4.63	50.0	ND<4.63	ND<4.63	ND<4.63	36.9	131
B4-2	2.0	11/25/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B5-1	1.0	11/25/19	ND<4.76	1.88	174	ND<4.76	ND<4.76	10.2	--	7.69	7.00	5.62	ND<0.49	ND<4.76	9.28	ND<4.76	ND<4.76	ND<5.5	34.8	74.6
B6-2	2.0	11/25/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B7-1	1.0	11/25/19	ND<4.85	5.00	141	ND<4.85	ND<4.85	39.8	--	8.07	29.5	16.1	ND<0.48	ND<4.85	36.2	ND<4.85	ND<4.85	ND<4.85	35.4	98.1
B8-2	2.0	11/25/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B9-1	1.0	11/25/19	ND<4.63	4.04	142	ND<4.63	ND<4.63	33.5	--	8.44	24.9	6.56	ND<0.50	ND<4.63	37.1	ND<4.63	ND<4.63	ND<4.63	35.9	53.9
B10-2	2.0	11/25/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B11-1	1.0	11/25/19	ND<4.72	5.16	186	ND<4.72	ND<4.72	41.4	--	10.1	28.0	11.3	ND<0.46	ND<4.72	44.4	ND<4.72	ND<4.72	ND<4.72	42.2	83.2
B12-2	2.0	11/25/19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Screening Levels																				
Tier 1 ESLs ¹			11	11 ²	390	5.0	1.9	160	--	23	180	32	13	6.9	86	2.4	25	0.78	18	340
Construction Worker ESLs ³			50	11 ²	3,000	27	51	NE	--	28	14,000	160	44	1,800	86	1,700	1,800	3.5	470	110,000
STLC ⁴ x 10			150	50	1,000	7.5	10	50	5.0	800	250	50	2.0	3,500	200	10	50	70	240	2,500
Notes:																				
Title 22 Metals analyzed by United States Environmental Protection Agency (USEPA) Method 6010B, mercury analyzed by USEPA Method 7471B																				
bgs – below ground surface																				
mg/kg – milligrams per kilogram																				
mg/L - milligrams per liter																				
ND<X – analyte not detected at or above the practical quantitation limit X																				
-- not analyzed/not applicable																				
NE - not established																				
1. San Francisco Bay Regional Water Quality Control Board (RWQCB) Tier 1 Environmental Screening Levels (ESLs) 2019 (Rev.2)																				
2. Duverge, 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, December																				
3. RWQCB Construction Worker ESLs, 2019 (Rev.2). Most conservative value has been tabulated.																				
4. STLC - Soluble Threshold Limit Concentration. California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24, 10x concentration triggers analytical testing																				
Bold indicates concentration exceeds screening level.																				

Table 3 – Groundwater Analytical Results - TPHs and VOCs

Sample ID	Date Sampled	TPHs		VOCs						
		TPHd	TPHmo	Benzene	Toluene	Methyl tert-butyl ether	Ethylbenzene	Xylenes, Total	1,2,4-Trimethylbenzene	Other VOCs
		mg/L		µg/L						
B5-GW	11/25/2019	0.195	ND<0.42	ND<0.072	ND<0.16	1.7	ND<0.22	ND<0.17	ND<0.26	ND
B11-GW	11/25/2019	0.222	ND<0.44	0.082	ND<0.17	2.8	ND<0.23	ND<0.18	ND<0.27	ND
Screening Levels										
Tier 1 ESL		0.100	NE	0.42	40	5.0	3.5	20	NE	Various

Notes:

TPHs - total petroleum hydrocarbons as motor oil and diesel analyzed using United States Environmental Protection Agency (USEPA) Method 8015B

VOCs - volatile organic compounds analyzed using USEPA Method 8260B

ID - identification

mg/L - milligrams per liter

µg/L - micrograms per liter

ND - not detected

ND<X - not detected at practical quantitation limit X

ESL - San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Level (ESL), Groundwater, 2019 (Rev.2).

NE - not established

Bold indicates concentration exceeds screening level.

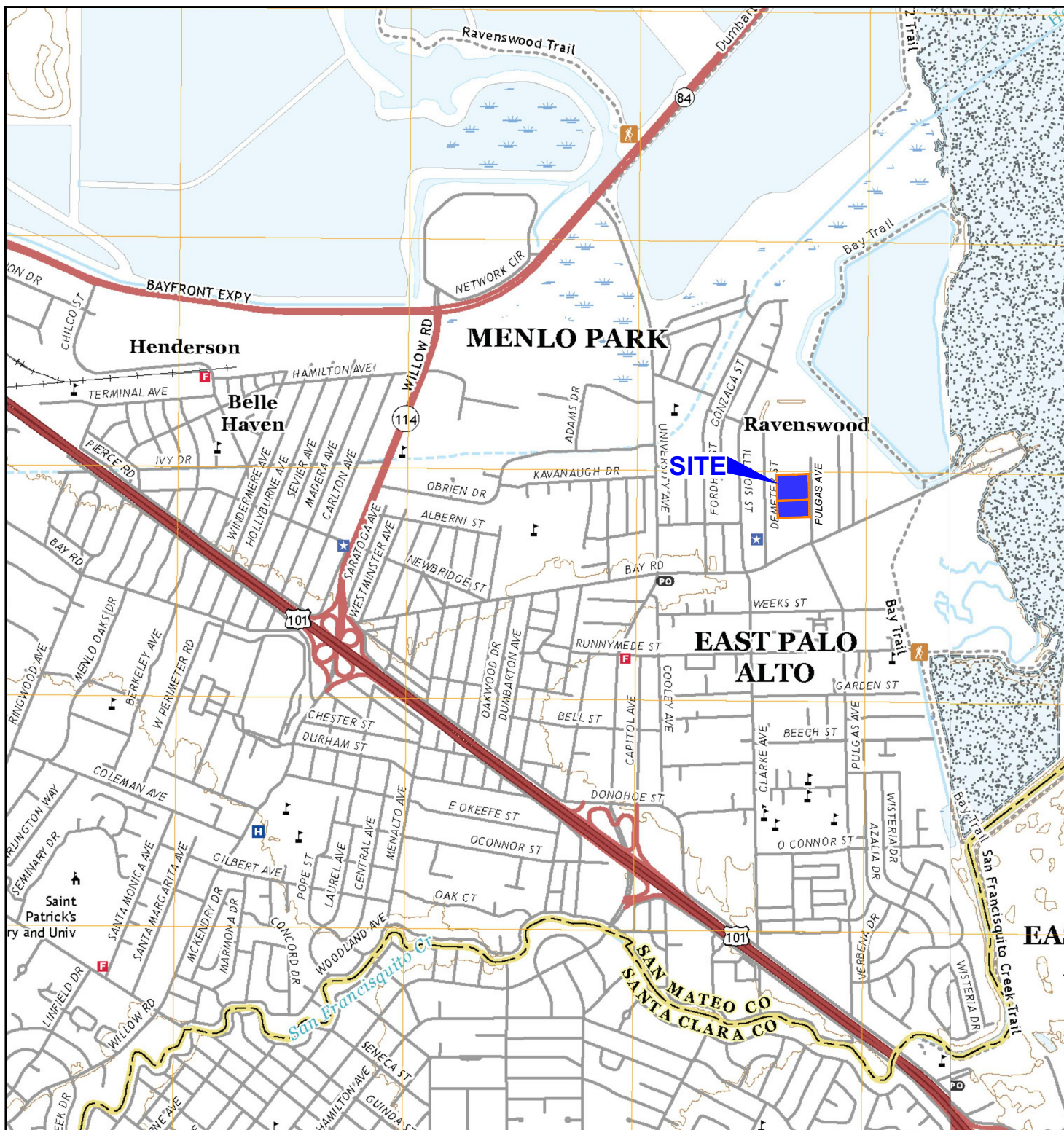
Table 4 – Soil Vapor Analytical Results - Fixed Gases and VOCs

Sample ID	Date Sampled	Fixed Gases			VOCs							
		Methane	Helium	Oxygen	Benzene	Methyl tert-butyl ether	Toluene	1,2,4-Trimethylbenzene	4-Ethyltoluene	m,p-Xylene	o-Xylene	Other VOCs
		%			µg/m ³							
B5-SV	12/18/2019	0.074	ND<0.11	1.1	ND<3.5	ND<16	6.4	10	12	18	6.7	ND
B6-SV	12/18/2019	ND<0.00023	ND<0.12	14.0	ND<3.7	ND<16	ND<4.3	ND<5.6	ND<5.6	ND<5.0	ND<5.0	ND
B11-SV	12/18/2019	ND<0.00024	ND<0.12	20.0	ND<3.8	ND<17	ND<4.5	ND<5.9	ND<5.9	ND<5.2	ND<5.2	ND
B13-SV	12/18/2019	ND<0.00023	ND<0.11	19.0	ND<3.6	ND<16	ND<4.2	ND<5.6	ND<5.6	ND<4.9	ND<4.9	ND
Screening Levels												
Tier 1 ESL		NE	NE	NE	3.2	360	10,000	NE	NE	3,500	3,500	Various

Notes:
Fixed gases analyzed using ASTM D-1946
VOCs - Volatile organic compounds analyzed using United States Environmental Protection Agency Method TO-15
ID - identification
% - percent
µg/m³ - micrograms per cubic meter
ND<X - not detected at laboratory reporting limit X
ESL - San Francisco Bay Regional Water Quality Control Board Tier 1 Environmental Screening Level (ESL), Subslab/Soil Gas, 2019 (Rev.2).
NE - not established
Bold indicates concentration exceeds the screening level.



FIGURES



NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: USGS, 2018

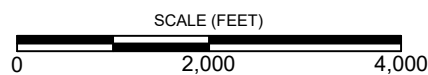


FIGURE 1



LEGEND

- SITE BOUNDARY
- B5 ● GROUNDWATER BORING (~15')
- B1 ● SOIL BORING (0-2')
- B5 ★ SOIL VAPOR WELL (5.5-6')

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: GOOGLE EARTH, 2019

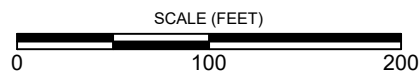
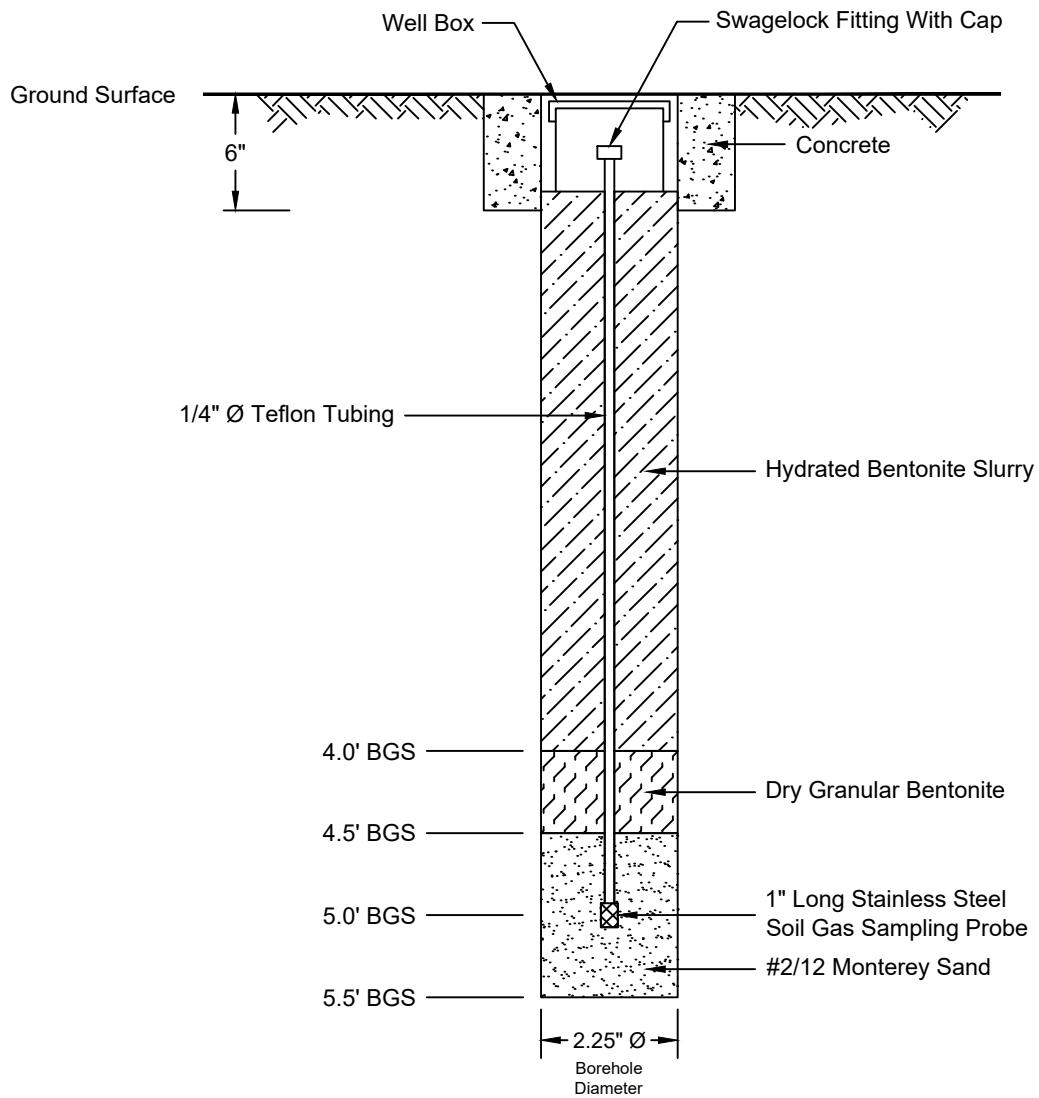


FIGURE 2

BORING LOCATIONS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
2519 AND 2535 PULGAS AVENUE
EAST PALO ALTO, CALIFORNIA
403627002 | 01/20



Notes:

BGS = Below Ground Surface

Ø = Diameter

Soil vapor well B11-SV extends to 6 ft BGS with the probe at 5.5 ft BGS, sand pack from 5-6 ft BGS, and bentonite from 4.5-5 ft BGS.

NOTE: NOT TO SCALE

FIGURE 3

SOIL VAPOR PROBE CONSTRUCTION DIAGRAM

PHASE II ENVIRONMENTAL SITE ASSESSMENT
2519 AND 2535 PULGAS AVENUE
EAST PALO ALTO, CALIFORNIA

403627002 | 01/20



APPENDIX A

San Mateo County Health Environmental Health Services Permits

ORDINANCE: 04023



SAN MATEO COUNTY HEALTH
**ENVIRONMENTAL
HEALTH SERVICES**

Permit 19-1798

P/E: 2010 MONITORING WELLS - INSTALLATION/DESTRUCTION

FACILITY:

2535 PULGAS AVE, EAST PALO ALTO

OWNER:

SYCAMORE REAL ESTATE INV LLC

2535 PULGAS AVE

EAST PALO ALTO

WP0012520 FA0067004

063121370

AMOUNT PAID: 747.00

CONTRACTOR:

VTS DRILLING LLC

TERMS & CONDITIONS:

CONSTRUCT SOIL BORINGS (1)

CONSULTANT: NINYO AND MOORE

PROJECT MGR: HELEN HILD

DATE ISSUED: 11/18/2019

KIAN ATKINSON

ENVIRONMENTAL HEALTH SPECIALIST

EXPIRATION DATE: 3/18/2020

THIS CERTIFICATE IS NONTRANSFERABLE AND MUST BE POSTED ON-SITE IN A CONSPICUOUS PLACE.

App 1 of 2

SAN MATEO COUNTY
ENVIRONMENTAL HEALTH

NOV 13 2019

SAN MATEO COUNTY HEALTH
ENVIRONMENTAL
HEALTH SERVICES**PAID**
\$747.00
CC VISAEnvironmental Health Services
Groundwater Protection Program
2000 Alameda de las Pulgas, Suite 4100
San Mateo, CA 94403
Phone: (650) 372-6200 | Fax: (650) 627-8244
smchealth.org/gpp**SUBSURFACE DRILLING PERMIT APPLICATION**Allow three (3) full working days for processing a complete permit application which includes payment (one permit per parcel). Drilling start date & time must be scheduled with County staff at (650) 464-0047 or drilling@smcgov.org at least 2 full working days (i.e. 48 hours) in advance. Visit smchealth.org/shfees for Groundwater Protection Program Fees

PURPOSE OF APPLICATION	☐ Groundwater Monitoring/Vapor Well Installation	☒ Construct Soil Borings (variance request if to be left open >24 hrs)
	☐ Groundwater Monitoring/Vapor Well Destruction	Extension of Permit # _____
	No. of Wells _____	No. of Borings 1 _____ Well/Boring Names NMB-1 _____

PURPOSE OF DRILLING	☒ Environmental	LEAD AGENCY	☐ County GPP (permit approval is not to be considered work plan approval)
	☐ Geotechnical		☐ RWQCB/DTSC/USEPA (Provide approval letter) ☐ None (i.e. voluntary)

SITE / DRILLING INFORMATION

Agency Case # _____ Assessor's Parcel # (required) 063121370 (one per permit)

Drilling Location Address: 2535 Pulgas Avenue City: East Palo Alto Zip: 94303

To Be Constructed In: ☐ Public Property ☒ Private Property ☐ Refuse

Maximum Proposed Depth (wells/borings) 15 feet (feet) Drilling Method: Direct Push

Boring Diameter: 2" Casing Diameter: 1" Filter Pack Interval: 9-15 Screen Interval: 10-15

Destruction Method:

☒ Pressure Grouting (provide well construction logs and grout calcs)(6 gallons water max/94 lb cement, up to 5% bentonite) ☐ Overdrilling (guide rods for total depth prior to starting required)**WELL/BORING OWNER**

(Well/boring owner name or contact person should match signature)

Name: Sycamore Real Estate Investment LLC Contact Person: Lorenzo BrooksAddress: 555 Bryant St, Suite 259 City, State, Zip: Palo Alto, CA 94301Telephone: 718 208 9214 Email: lorenzo@emersoncollective.com

It is my responsibility to notify the County of any known changes in the purpose of this well/boring from that which is indicated on this application, to submit indication of annual usage of wells to the County, and to maintain the well in good condition. (Letter signed by well/boring owner/contact person, containing above language and attesting to knowledge of all permit requirements and conditions, may be substituted for signature.)

Well/Boring Owner's/Contact Person's Signature: [Signature] Date: 11/1/19**PROPERTY OWNER**

(Name as appears on assessor's roles should match signature)

Name: Charlie Toxhate Contact Person: CHARLIE TOXHATEAddress: 2535 PULGAS AVE City, State, Zip: EAST PALO ALTO CA 94303Telephone: 650 537-1913 Email: JEFFM@TOXHATE.COM

I understand that a well/boring is being installed on my property. I agree to notify the County and Well Owner of any known damage or future access issues to the well (Letter signed by property owner, containing above language, or encroachment permit may be substituted for signature)

Property Owner's Signature: [Signature] Date: 11.4.19**DRILLING COMPANY**Drilling Company: VTS Drilling LLC Contact Person: Glenn ReissAddress: 2560 Barrington Court City, State, Zip: Hayward, CaliforniaTelephone: 415 378 0415 Email: glenn@vtsdrilling.com C57 Drillers License # 916085

I certify that the well/boring will be constructed in compliance with the conditions of this permit (see reverse), the San Mateo County Well Ordinance, and the State Water Well Standards, and that the license listed above is considered current and active by the Contractors State License Board.

Driller's Signature: [Signature] Date: 11/1/19**CONSULTANT COMPANY**Consultant Company: Ninyo & Moore Project Manager: Helen HildAddress: 2020 Challenger Drive City, State, Zip: Alameda, California 94501Telephone: 510 343 3000 x15206 Email: hhild@ninyoandmoore.com

Field Contact & Cell # (if known): _____

I certify that this application is correct to the best of my knowledge and the well/boring will be constructed/destroyed in compliance with the conditions of this permit (see reverse), the San Mateo County Well Ordinance, and the State Water Well Standards. I understand that I am responsible for General Conditions E, F, K, and L of this permit and if I indicated the purpose of drilling is geotechnical, then no one will use the boring to collect any samples for environmental analyses. If there is a change in Responsible Professional, I will notify San Mateo County GPP staff.

Responsible Professional's Name (Please print legibly): Kris LarsonResponsible Professional's Signature: Kris Larson Digitally signed by Kris Larson Date: 2019.10.28 13:33:15 -0700 Date: _____California Professional Geologist (PG) No. 8059 or Civil Engineer (PE) No. _____

REV 3/2016

FA67004

SUBSURFACE DRILLING PERMIT APPLICATION

REQUIREMENTS:

An accurate and correct map **must** be submitted with the application and include the following: north arrow, existing and historic site features, existing and proposed well/boring locations with ID's to scale, property lines and any other pertinent information. A work plan describing the drilling and construction/destruction methodology may be requested by County staff. A complete application with appropriate fees must be submitted 3 working days in advance of drilling and notification of start date and time must be provided at least 2 working days prior to drilling. The permit is subject to both General and Special Conditions stated below. A copy of the approved Subsurface Drilling Permit **must** be available on site while work related to the permit is being performed. **Drilling may begin at the notified date and time whether County staff is present or not.**

GENERAL CONDITIONS:

- A. Field notification must be provided to GPP drilling inspection staff at least 2 full working days prior to the start of drilling. GPP Caseworker also must be notified if site is associated with a remedial action case.
- B. Well and boring construction and destruction under this permit are subject to the Standards for the Construction of Wells in San Mateo County, County Groundwater Protection Program (GPP) Guidelines, Policies & Procedures, the State Water Well Standards, and any instructions by a Health Department representative.
- C. Well/Boring Owner, Driller, and Responsible Professional assume responsibility for all activities and uses under the permit, including compliance with Workmen's Compensation Laws, and indemnify, defend and save the County of San Mateo, its officers, agents and employees, free and harmless from any and all expense, cost, or liability in connection with or resulting from work or stopped-work associated with the permit, including, but not limited to, property damage, personal injury, wrongful death, and loss of income.
- D. All borings **must** be properly destroyed (grouted/sealed) within 24 hours of drilling, unless special conditions are approved beforehand in writing as part of this permit, and must be continuously protected and stabilized.
- E. Analytical results of all soil, vapor, and groundwater samples collected during the execution of drilling under this permit **must** be submitted to County GPP staff by the Responsible Professional within 60 days of sample collection. If contamination is discovered during drilling, verbal notification to County GPP by the Responsible Professional is **required** within 72 hours of discovery. Proper storage, labeling & disposal of investigation-derived residual wastes are the responsibility of the consultant unless stated otherwise contractually.
- F. Boring logs, well construction details, and finalized as-built location map for all borings/ wells (except geotechnical borings) signed by a Responsible Professional, **must** be submitted to County GPP by the Responsible Professional within 60 days of drilling/construction/destruction. DWR Form 188 must be filed with the State per water code 13752.
- G. Permit is valid only for the purpose specified herein. No change in purpose or required procedures, as described on this permit application, in the associated workplan, or in the special conditions below, will be allowed except upon written permission from the County. Construction aspects can be changed based on conditions encountered in the field.
- H. **Permit is valid for one mobilization** associated with originally permitted boring/well locations only, including contingency locations, and is automatically canceled if not exercised, or if an extension is not applied for and granted within 120 days of the original permit issuance date. Failure to notify staff of cancellation or delay in start time will result in the Consultant being billed an Inspection Cancellation fee if GPP staff attempted to perform an inspection. Fees are listed at smchealth.org/ehfees
- I. Wells installed under this permit may not be used for domestic, municipal, agricultural, or irrigation water supply.
- J. All work performed **must** conform to Business and Profession Codes and State Water Well Standards.
- K. Top-of-casing elevation of all wells **must** be surveyed to the nearest 0.01-foot relative to Mean Sea Level or NAVD88 and submitted to County GPP within 60 days of drilling, and to State GeoTracker as appropriate. Geotechnical wells are exempt from this requirement if a written variance from GPP is obtained prior to drilling.
- L. Latitude and longitude of all wells **must** be surveyed with sub-meter accuracy relative to NAD83 and submitted to County GPP within 60 days of drilling, and to State GeoTracker as appropriate.
- M. Violation of any requirement or general or special permit condition may result in an order by GPP staff to cease work under this permit, correct the violation, potentially re-permit the work as a new mobilization, and potential actions may be taken against the Well Owner, Property Owner, or Responsible Professional by GPP.

SPECIAL CONDITIONS:

(agency use only)

For Agency Use Only:

County Approval: _____

FA # _____

Date: 11/15/17

403672002.dwg 11/12/2019 AEK



LEGEND

--- SITE BOUNDARY

● PROPOSED GROUNDWATER BORING
(~10-15')

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: GOOGLE EARTH, 2019



SCALE (FEET)
0 100 200

FIGURE 2

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants

PROPOSED GROUNDWATER BORING LOCATIONS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
2519 AND 2535 PULGAS AVENUE
EAST PALO ALTO, CALIFORNIA

403672002 | 11/19

ORDINANCE: 04023



SAN MATEO COUNTY HEALTH
**ENVIRONMENTAL
HEALTH SERVICES**

Permit 19-1799

P/E: 2010 MONITORING WELLS - INSTALLATION/DESTRUCTION

FACILITY:

2519 PULGAS AVE, EAST PALO ALTO

OWNER:

SYCAMORE REAL ESTATE INV LLC
555 BRYANT ST STE 259
PALO ALTO

WP0012521 FA0067005
063131350
AMOUNT PAID: 0.00

CONTRACTOR:

VTS DRILLING LLC

TERMS & CONDITIONS:

CONSTRUCT SOIL BORINGS (1)
CONSULTANT: NINYO AND MOORE
PROJECT MGR: HELEN HILD

KIAN ATKINSON

ENVIRONMENTAL HEALTH SPECIALIST

DATE ISSUED: 11/18/2019

EXPIRATION DATE: 3/18/2020

THIS CERTIFICATE IS NONTRANSFERABLE AND MUST BE POSTED ON-SITE IN A CONSPICUOUS PLACE.

App 2 of 2

SAN MATEO COUNTY
ENVIRONMENTAL HEALTH

NOV 13 2019

RECEIVED

SAN MATEO COUNTY HEALTH
ENVIRONMENTAL
HEALTH SERVICESEnvironmental Health Services
Groundwater Protection Program
2000 Alameda de las Pulgas, Suite #100
San Mateo, CA 94403
Phone: (650) 372-6200 | Fax: (650) 627-8244
smchealth.org/gpp

SUBSURFACE DRILLING PERMIT APPLICATION

Allow three (3) full working days for processing a complete permit application which includes payment (one permit per parcel). Drilling start date & time must be scheduled with County staff at (650) 464-0047 or drilling@smcgov.org at least 2 full working days (i.e. 48 hours) in advance. Visit smchealth.org/ehfees for Groundwater Protection Program Fees

PURPOSE OF APPLICATION: ☐ Groundwater Monitoring/Vapor Well Installation ☒ Construct Soil Borings (variance request if to be left open >24 hrs)
☐ Groundwater Monitoring/Vapor Well Destruction Extension of Permit # _____
 No. of Wells _____ No. of Borings 1 _____ Well/Boring Names NMB-1 _____

PURPOSE OF DRILLING: ☒ Environmental LEAD ☐ County GPP (permit approval is not to be considered work plan approval)
☐ Geotechnical AGENCY ☐ RWQCB/DTSC/USEPA (Provide approval letter) ☐ None (i.e. voluntary)

SITE / DRILLING INFORMATION

Agency Case # _____ Assessor's Parcel # (required) 063131350 (one per permit)

Drilling Location Address: 2519 Pulgas Avenue City: East Palo Alto Zip: 94303

To Be Constructed In: ☐ Public Property ☒ Private Property ☐ Refuse

Maximum Proposed Depth (wells/borings) 15 feet (feet) Drilling Method: Direct Push

Boring Diameter: 2" Casing Diameter: 1" Filter Pack Interval: 9-15 Screen Interval: 10-15

Destruction Method: ☒ Pressure Grouting (provide well construction logs and grout calcs)
 (6 gallons water max/94 lb cement, up to 5% bentonite) ☐ Overdrilling (guide rods for total depth prior to starting required)

WELL/BORING OWNER (Well/boring owner name or contact person should match signature)

Name: Sycamore Real Estate Interest LLC Contact Person: Lorenzo BrooksAddress: 555 Bryant St, Suite 257 City, State, Zip: Palo Alto, CA 94301Telephone: 718-268-9214 Email: lorenzo@emersoncollective.com

It is my responsibility to notify the County of any known changes in the purpose of this well/boring from that which is indicated on this application, to submit indication of annual usage of wells to the County, and to maintain the well in good condition. (Letter signed by well/boring owner/contact person, containing above language and attesting to knowledge of all permit requirements and conditions, may be substituted for signature.)

Well/Boring Owner's/Contact Person's Signature: Lorenzo Brooks Date: 11/11/19

PROPERTY OWNER (Name as appears on assessor's roles should match signature)

Name: Sobrato Interests 3 Contact Person: Carlin DalbeckAddress: 599 Castro St Suite 400 City, State, Zip: Mountain View Ca 94041Telephone: 415-378-4685 Email: cdalbeck@sobrato.com

I understand that a well/boring is being installed on my property. I agree to notify the County and Well Owner of any known damage or future access issues to the well (Letter signed by property owner, containing above language, or encroachment permit may be substituted for signature)

Property Owner's Signature: Carlin Dalbeck Date: 11/04/19

DRILLING COMPANY

Drilling Company: VTS Tech Services VTS Drilling LLC Contact Person: Glenn ReissAddress: 2560 Barrington Court City, State, Zip: Hayward, CaliforniaTelephone: 415 378 0415 Email: glenn@vtsdrilling.com C57 Drillers License # 916085

I certify that the well/boring will be constructed in compliance with the conditions of this permit (see reverse), the San Mateo County Well Ordinance, and the State Water Well Standards, and that the license listed above is considered current and active by the Contractors State License Board.

Driller's Signature: Glenn Reiss Date: 11/11/19

CONSULTANT COMPANY

Consultant Company: Ninyo & Moore Project Manager: Helen HildAddress: 2020 Challenger Drive City, State, Zip: Alameda, California 94501Telephone: 510 343 3000 x15206 Email: hhild@ninyoandmoore.com

Field Contact & Cell # (if known): _____

I certify that this application is correct to the best of my knowledge and the well/boring will be constructed/destroyed in compliance with the conditions of this permit (see reverse), the San Mateo County Well Ordinance, and the State Water Well Standards. I understand that I am responsible for General Conditions E, F, K, and L of this permit and if I indicated the purpose of drilling is geotechnical, then no one will use the boring to collect any samples for environmental analyses. If there is a change in Responsible Professional, I will notify San Mateo County GPP staff.

Responsible Professional's Name (Please print legibly): Kris LarsonResponsible Professional's Signature: Kris Larson Digitally signed by Kris Larson Date: 2019.10.29 12:31:11 -07'00' Date: _____California Professional Geologist (PG) No. 8059 or Civil Engineer (PE) No. _____

REV. 02/2018

FA67005

SUBSURFACE DRILLING PERMIT APPLICATION

REQUIREMENTS:

An accurate and correct map **must** be submitted with the application and include the following: north arrow, existing and historic site features, existing and proposed well/boring locations with ID's to scale, property lines and any other pertinent information. A work plan describing the drilling and construction/destruction methodology may be requested by County staff. A complete application with appropriate fees must be submitted 3 working days in advance of drilling and notification of start date and time must be provided at least 2 working days prior to drilling. The permit is subject to both General and Special Conditions stated below. A copy of the approved Subsurface Drilling Permit **must** be available on site while work related to the permit is being performed. **Drilling may begin at the notified date and time whether County staff is present or not.**

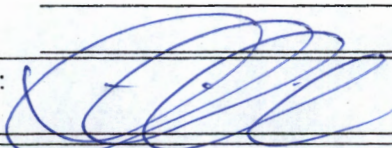
GENERAL CONDITIONS:

- A. Field notification must be provided to GPP drilling inspection staff at least 2 full working days prior to the start of drilling. GPP Caseworker also must be notified if site is associated with a remedial action case.
- B. Well and boring construction and destruction under this permit are subject to the Standards for the Construction of Wells in San Mateo County, County Groundwater Protection Program (GPP) Guidelines, Policies & Procedures, the State Water Well Standards, and any instructions by a Health Department representative.
- C. Well/Boring Owner, Driller, and Responsible Professional assume responsibility for all activities and uses under the permit, including compliance with Workmen's Compensation Laws, and indemnify, defend and save the County of San Mateo, its officers, agents and employees, free and harmless from any and all expense, cost, or liability in connection with or resulting from work or stopped-work associated with the permit, including, but not limited to, property damage, personal injury, wrongful death, and loss of income.
- D. All borings **must** be properly destroyed (grouted/sealed) within 24 hours of drilling, unless special conditions are approved beforehand in writing as part of this permit, and must be continuously protected and stabilized.
- E. Analytical results of all soil, vapor, and groundwater samples collected during the execution of drilling under this permit **must** be submitted to County GPP staff by the Responsible Professional within 60 days of sample collection. If contamination is discovered during drilling, verbal notification to County GPP by the Responsible Professional is **required** within 72 hours of discovery. Proper storage, labeling & disposal of investigation-derived residual wastes are the responsibility of the consultant unless stated otherwise contractually.
- F. Boring logs, well construction details, and finalized as-built location map for all borings/ wells (except geotechnical borings) signed by a Responsible Professional, **must** be submitted to County GPP by the Responsible Professional within 60 days of drilling/construction/destruction. DWR Form 188 must be filed with the State per water code 13752.
- G. Permit is valid only for the purpose specified herein. No change in purpose or required procedures, as described on this permit application, in the associated workplan, or in the special conditions below, will be allowed except upon written permission from the County. Construction aspects can be changed based on conditions encountered in the field.
- H. **Permit is valid for one mobilization** associated with originally permitted boring/well locations only, including contingency locations, and is automatically canceled if not exercised, or if an extension is not applied for and granted within 120 days of the original permit issuance date. Failure to notify staff of cancellation or delay in start time will result in the Consultant being billed an Inspection Cancellation fee if GPP staff attempted to perform an inspection. Fees are listed at smchealth.org/ehfees
- I. Wells installed under this permit may not be used for domestic, municipal, agricultural, or irrigation water supply.
- J. All work performed **must** conform to Business and Profession Codes and State Water Well Standards.
- K. Top-of-casing elevation of all wells **must** be surveyed to the nearest 0.01-foot relative to Mean Sea Level or NAVD88 and submitted to County GPP within 60 days of drilling, and to State GeoTracker as appropriate. Geotechnical wells are exempt from this requirement if a written variance from GPP is obtained prior to drilling.
- L. Latitude and longitude of all wells **must** be surveyed with sub-meter accuracy relative to NAD83 and submitted to County GPP within 60 days of drilling, and to State GeoTracker as appropriate.
- M. Violation of any requirement or general or special permit condition may result in an order by GPP staff to cease work under this permit, correct the violation, potentially re-permit the work as a new mobilization, and potential actions may be taken against the Well Owner, Property Owner, or Responsible Professional by GPP.

SPECIAL CONDITIONS:

(agency use only)

For Agency Use Only:

County Approval: 

FA # 1014

Date: 11/15/19

403672002.dwg 11/12/2019 AEK



LEGEND

- SITE BOUNDARY
- PROPOSED GROUNDWATER BORING (~10-15')

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: GOOGLE EARTH, 2019



FIGURE 2

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

PROPOSED GROUNDWATER BORING LOCATIONS

PHASE II ENVIRONMENTAL SITE ASSESSMENT
2519 AND 2535 PULGAS AVENUE
EAST PALO ALTO, CALIFORNIA
403672002 | 11/19



APPENDIX B

Soil Vapor Sampling Data Sheets

Soil Vapor Sample Collection Data

Sample ID: B13-SV		Client:		Date: 2/10/19	
		Project Number: 403627002			
		Site Location:			
		Field Personnel: CMID			
		Type of Probe and Advancement Method			
Sample Data	Sample ID	B13-SV			
	Canister Serial No.	00223			
	Flow Controller Serial No.	30677			
	Sample Depth (Ft.)	5 ft			
	Tubing length				
	Purge Volume and Rate	3" Hg			
1-2 Minute Shut-in Test	Calculated Duration of Purge (3 tubing volumes)	3" Hg			
	Time Sample-Train Shut-in Test Begins	1200			
	Initial Canister Vacuum (inches Hg)	-18" Hg			
	Time Sample-Train Shut-in Test Ends	1202			
	Duration of Test	2 min			
Purge	Final Canister Vacuum (inches Hg)	-18" Hg			
	Time Beginning of Purge	-18" Hg			
	Time End of Purge	-15" Hg			
Sample Collection and Tracer Gas Monitoring	Actual Duration of Purge	-3" Hg			
	Time Canister Opened	1211			
	Initial Canister Vacuum (inches Hg)	-28			
	Measured Helium % initial	22.7 %			
	1213 2 min.	29.8 %	35 min.		
	1215 4 min.	28.6 %	40 min.		
	1217 6 min.	20.5 %	45 min.		
	1219 8 min.	22.0 %	50 min.		
	10 min.		55 min.		
	15 min.		60 min.		
	20 min.		___ min.		
	25 min.		___ min.		
	30 min.		___ min.		
	Comments		___ min.		
	Time Canister Closed	1219			
Final Canister Pressure (inches Hg)	-4				
Time of Sample Collection	8 min				

Notes:
Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

downhole gauge = **-1.5" Hg**

Soil Vapor Sample Collection Data

Sample ID: B11-SV		Client:				Date: 12/18/19	
		Project Number: 403627002					
		Site Location:					
		Field Personnel: CMD Type of Probe and Advancement Method:					
Sample Data	Sample ID	B11-SV					
	Canister Serial No.	A9004					
	Flow Controller Serial No.	24573					
	Sample Depth (Ft.)	5.5ft					
	Tubing length						
	Purge Volume and Rate	3" Hg					
	Calculated Duration of Purge (3 tubing volumes)	3" Hg					
1-2-Minute Shut-in Test	Time Sample-Train Shut-In Test Begins	1130 1128					
	Initial Canister Vacuum (inches Hg)	-19.5					
	Time Sample-Train Shut-In Test Ends	1132					
	Duration of Test	2 min 4 min					
	Final Canister Vacuum (inches Hg)	-19.5					
Purge	Time Beginning of Purge	-19" Hg					
	Time End of Purge	-16" Hg					
	Actual Duration of Purge	-3" Hg					
Sample Collection and Tracer Gas Monitoring	Time Canister Opened	1141					
	Initial Canister Vacuum (inches Hg)	-26.5					
	Measured Helium % initial	25.5%	X downhole gauge = 0.0" Hg				
	1143 2 min.	21.7%	35 min.				
	1145 4 min.	22.8%	40 min.				
	1147 6 min.	23.0%	45 min.				
	8 min.		50 min.				
	10 min.		55 min.				
	15 min.		60 min.				
	20 min.		___ min.				
	25 min.		___ min.				
	30 min.		___ min.				
	Comments		___ min.				
	Time Canister Closed	1146					
	Final Canister Pressure (inches Hg)	-4					
Time of Sample Collection	5 min						

Notes:
Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Sample ID: B5-SV		Client:				Date: 2/18/19	
		Project Number: 403627002					
		Site Location:					
		Field Personnel: CMD Type of Probe and Advancement Method:					
Sample Data	Sample ID	B5-SV					
	Canister Serial No.	40865					
	Flow Controller Serial No.	20421					
	Sample Depth (Ft.)	5 ft					
	Tubing length						
	Purge Volume and Rate	3" Hg					
	Calculated Duration of Purge (3 tubing volumes)	3" Hg					
1-2-Minute Shut-in Test	Time Sample-Train Shut-in Test Begins	1043					
	Initial Canister Vacuum (inches Hg)	25.5					
	Time Sample-Train Shut-in Test Ends	1045					
	Duration of Test	2 min					
	Final Canister Vacuum (inches Hg)	25.5					
Purge	Time Beginning of Purge	-24.5					
	Time End of Purge	-21.5					
	Actual Duration of Purge	-3" Hg					
Sample Collection and Tracer Gas Monitoring	Time Canister Opened	1056					
	Initial Canister Vacuum (inches Hg)	-27					
	Measured Helium % initial	28.1	x downhole gauge = -0.5" Hg				
	1058 2 min.	27.2	35 min.				
	1100 4 min.	25.9	40 min.				
	1102 6 min.	28.4	45 min.				
	8 min.		50 min.				
	10 min.		55 min.				
	15 min.		60 min.				
	20 min.		___ min.				
	25 min.		___ min.				
	30 min.		___ min.				
	Comments		___ min.				
	Time Canister Closed	1103					
	Final Canister Pressure (inches Hg)	-4.5					
Time of Sample Collection	7 min						

Notes:
Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)

Soil Vapor Sample Collection Data

Sample ID: B6-SV		Client:		Date: 2/18/19		
		Project Number: 40367002				
		Site Location:				
		Field Personnel: Cynthia Davis				
		Type of Probe and Advancement Method:				
Sample Data	Sample ID	B6-SV				
	Canister Serial No.	N2647				
	Flow Controller Serial No.	22626				
	Sample Depth (Ft.)	5 ft				
	Tubing length					
	Purge Volume and Rate	3" Hg				
	Calculated Duration of Purge (3 tubing volumes)	3" Hg				
1-2-Minute Shut-in Test	Time Sample-Train Shut-in Test Begins	1005				
	Initial Canister Vacuum (inches Hg)	-29.5				
	Time Sample-Train Shut-in Test Ends	1007				
	Duration of Test	2 min				
	Final Canister Vacuum (inches Hg)	-29.5				
Purge	Time Beginning of Purge ("Hg)	-28				
	Time End of Purge ("Hg)	-25				
	Actual Duration of Purge ("Hg)	-3" Hg				
Sample Collection and Tracer Gas Monitoring	Time Canister Opened	1022				
	Initial Canister Vacuum (inches Hg)	-27.5				
	Measured Helium % initial	28.6 %	x down hole gauge = 1.5" Hg			
	2 min.	27.5	35 min.			
	4 min.	25.6	40 min.			
	6 min.	23.1	45 min.			
	8 min.		50 min.			
	10 min.		55 min.			
	15 min.		60 min.			
	20 min.		___ min.			
	25 min.		___ min.			
	30 min.		___ min.			
	Comments		___ min.			
	Time Canister Closed	1028				
	Final Canister Pressure (inches Hg)	-4				
Time of Sample Collection	6 min					

Notes:

Calculating Purge Volume: Length of tube (ft.) x 5.5 cc/linear foot (1/4" OD Teflon Tube)



APPENDIX C

Analytical Laboratory Reports

12/28/2019
Ms. Helen Hild
Ninyo & Moore
2020 Challenger Drive
Suite 103
Alameda CA 94501

Project Name: Project Thunder
Project #: 403627002
Workorder #: 1912480A

Dear Ms. Helen Hild

The following report includes the data for the above referenced project for sample(s) received on 12/19/2019 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Allyson Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Allyson Scott
Project Manager

WORK ORDER #: 1912480A

Work Order Summary

CLIENT: Ms. Helen Hild
Ninyo & Moore
2020 Challenger Drive
Suite 103
Alameda, CA 94501

BILL TO: Ms. Helen Hild
Ninyo & Moore
2020 Challenger Drive
Suite 103
Alameda, CA 94501

PHONE: 510-633-5640

P.O. #

FAX: (510) 633-5640

PROJECT # 403627002 Project Thunder

DATE RECEIVED: 12/19/2019

CONTACT: Allyson Scott

DATE COMPLETED: 12/28/2019

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	B13-SV	TO-15	3.3 "Hg	14.9 psi
02A	B11-SV	TO-15	4.9 "Hg	15 psi
03A	B5-SV	TO-15	2.6 "Hg	15.1 psi
04A	B6-SV	TO-15	3.7 "Hg	15 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY:



Technical Director

DATE: 12/28/19

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
EPA Method TO-15
Ninyo & Moore
Workorder# 1912480A

Four 1 Liter Summa Canister samples were received on December 19, 2019. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A time was not provided by the field sampler.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds

EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B13-SV

Lab ID#: 1912480A-01A

No Detections Were Found.

Client Sample ID: B11-SV

Lab ID#: 1912480A-02A

No Detections Were Found.

Client Sample ID: B5-SV

Lab ID#: 1912480A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	1.1	1.7	4.2	6.4
m,p-Xylene	1.1	4.1	4.8	18
o-Xylene	1.1	1.5	4.8	6.7
4-Ethyltoluene	1.1	2.4	5.4	12
1,2,4-Trimethylbenzene	1.1	2.1	5.4	10

Client Sample ID: B6-SV

Lab ID#: 1912480A-04A

No Detections Were Found.

Client Sample ID: B13-SV

Lab ID#: 1912480A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122308	Date of Collection:	12/18/19 12:19:00 P
Dil. Factor:	2.26	Date of Analysis:	12/23/19 02:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.6	Not Detected
Freon 114	1.1	Not Detected	7.9	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.5	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.5	Not Detected
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	Not Detected	27	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	4.5	Not Detected	14	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	39	Not Detected
Methyl tert-butyl ether	4.5	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.5	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.1	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.1	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.7	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected

Client Sample ID: B13-SV

Lab ID#: 1912480A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122308	Date of Collection: 12/18/19 12:19:00 P
Dil. Factor:	2.26	Date of Analysis: 12/23/19 02:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.6	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.7	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	34	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: B11-SV

Lab ID#: 1912480A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122309	Date of Collection:	12/18/19 11:46:00 A
Dil. Factor:	2.41	Date of Analysis:	12/23/19 03:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	Not Detected	29	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected

Client Sample ID: B11-SV

Lab ID#: 1912480A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122309	Date of Collection: 12/18/19 11:46:00 A
Dil. Factor:	2.41	Date of Analysis: 12/23/19 03:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: B5-SV

Lab ID#: 1912480A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122310	Date of Collection:	12/18/19 11:03:00 A
Dil. Factor:	2.22	Date of Analysis:	12/23/19 03:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	11	Not Detected	43	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.5	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	11	Not Detected	26	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	4.4	Not Detected	14	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	38	Not Detected
Methyl tert-butyl ether	4.4	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	Not Detected	13	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	1.7	4.2	6.4
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected

Client Sample ID: B5-SV

Lab ID#: 1912480A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122310	Date of Collection:	12/18/19 11:03:00 A
Dil. Factor:	2.22	Date of Analysis:	12/23/19 03:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.5	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	4.1	4.8	18
o-Xylene	1.1	1.5	4.8	6.7
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	2.4	5.4	12
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	2.1	5.4	10
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: B6-SV

Lab ID#: 1912480A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122311	Date of Collection:	12/18/19 10:28:00 A
Dil. Factor:	2.30	Date of Analysis:	12/23/19 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.7	Not Detected
Freon 114	1.2	Not Detected	8.0	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	2.9	Not Detected
1,3-Butadiene	1.2	Not Detected	2.5	Not Detected
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.6	Not Detected	8.7	Not Detected
Freon 113	1.2	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	12	Not Detected	27	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	12	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.6	Not Detected
Heptane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.2	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.7	Not Detected
Toluene	1.2	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.3	Not Detected
Tetrachloroethene	1.2	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected

Client Sample ID: B6-SV

Lab ID#: 1912480A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122311	Date of Collection:	12/18/19 10:28:00 A
Dil. Factor:	2.30	Date of Analysis:	12/23/19 04:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	8.8	Not Detected
Chlorobenzene	1.2	Not Detected	5.3	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	4.9	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	7.9	Not Detected
Propylbenzene	1.2	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: Lab Blank

Lab ID#: 1912480A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122307	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 01:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1912480A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122307	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 01:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: CCV

Lab ID#: 1912480A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122302	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 09:43 AM

Compound	%Recovery
Freon 12	103
Freon 114	100
Chloromethane	146 Q
Vinyl Chloride	99
1,3-Butadiene	101
Bromomethane	98
Chloroethane	104
Freon 11	103
Ethanol	106
Freon 113	104
1,1-Dichloroethene	99
Acetone	101
2-Propanol	108
Carbon Disulfide	97
3-Chloropropene	105
Methylene Chloride	100
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	104
Hexane	105
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	103
Tetrahydrofuran	109
Chloroform	103
1,1,1-Trichloroethane	103
Cyclohexane	103
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	104
Benzene	104
1,2-Dichloroethane	111
Heptane	107
Trichloroethene	105
1,2-Dichloropropane	104
1,4-Dioxane	107
Bromodichloromethane	110
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	108
Toluene	105
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	104
Tetrachloroethene	108
2-Hexanone	110

Client Sample ID: CCV

Lab ID#: 1912480A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122302	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 09:43 AM

Compound	%Recovery
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	102
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	106
Styrene	108
Bromoform	110
Cumene	105
1,1,2,2-Tetrachloroethane	101
Propylbenzene	102
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	109

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: LCS

Lab ID#: 1912480A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 10:08 AM

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	98	70-130
Chloromethane	137 Q	70-130
Vinyl Chloride	97	70-130
1,3-Butadiene	101	70-130
Bromomethane	100	70-130
Chloroethane	101	70-130
Freon 11	99	70-130
Ethanol	91	70-130
Freon 113	102	70-130
1,1-Dichloroethene	100	70-130
Acetone	99	70-130
2-Propanol	101	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	97	70-130
Methylene Chloride	98	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	102	70-130
1,1-Dichloroethane	104	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	109	70-130
Tetrahydrofuran	102	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	102	70-130
Carbon Tetrachloride	108	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	98	70-130
1,2-Dichloroethane	103	70-130
Heptane	97	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	96	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	101	70-130
4-Methyl-2-pentanone	98	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	104	70-130
2-Hexanone	100	70-130

Client Sample ID: LCS

Lab ID#: 1912480A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 10:08 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	100	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	94	70-130
Ethyl Benzene	96	70-130
m,p-Xylene	101	70-130
o-Xylene	103	70-130
Styrene	101	70-130
Bromoform	101	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	96	70-130
Propylbenzene	95	70-130
4-Ethyltoluene	94	70-130
1,3,5-Trimethylbenzene	91	70-130
1,2,4-Trimethylbenzene	88	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	96	70-130
alpha-Chlorotoluene	92	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	82	70-130
Hexachlorobutadiene	89	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: LCSD

Lab ID#: 1912480A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 11:07 AM

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	95	70-130
Chloromethane	139 Q	70-130
Vinyl Chloride	96	70-130
1,3-Butadiene	99	70-130
Bromomethane	98	70-130
Chloroethane	101	70-130
Freon 11	97	70-130
Ethanol	87	70-130
Freon 113	100	70-130
1,1-Dichloroethene	96	70-130
Acetone	96	70-130
2-Propanol	98	70-130
Carbon Disulfide	89	70-130
3-Chloropropene	98	70-130
Methylene Chloride	95	70-130
Methyl tert-butyl ether	101	70-130
trans-1,2-Dichloroethene	90	70-130
Hexane	99	70-130
1,1-Dichloroethane	102	70-130
2-Butanone (Methyl Ethyl Ketone)	96	70-130
cis-1,2-Dichloroethene	108	70-130
Tetrahydrofuran	100	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	100	70-130
Carbon Tetrachloride	108	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	98	70-130
1,2-Dichloroethane	103	70-130
Heptane	102	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	99	70-130
1,4-Dioxane	102	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	104	70-130
4-Methyl-2-pentanone	100	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	102	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	104	70-130
2-Hexanone	102	70-130

Client Sample ID: LCSD

Lab ID#: 1912480A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p122304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/23/19 11:07 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	99	70-130
o-Xylene	104	70-130
Styrene	101	70-130
Bromoform	102	70-130
Cumene	102	70-130
1,1,2,2-Tetrachloroethane	96	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	95	70-130
1,3,5-Trimethylbenzene	92	70-130
1,2,4-Trimethylbenzene	90	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	97	70-130
alpha-Chlorotoluene	93	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	85	70-130
Hexachlorobutadiene	93	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	106	70-130

12/30/2019
Ms. Helen Hild
Ninyo & Moore
2020 Challenger Drive
Suite 103
Alameda CA 94501

Project Name: Project Thunder
Project #: 403627002
Workorder #: 1912480B

Dear Ms. Helen Hild

The following report includes the data for the above referenced project for sample(s) received on 12/19/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Allyson Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Allyson Scott
Project Manager

WORK ORDER #: 1912480B

Work Order Summary

CLIENT: Ms. Helen Hild
Ninyo & Moore
2020 Challenger Drive
Suite 103
Alameda, CA 94501

BILL TO: Ms. Helen Hild
Ninyo & Moore
2020 Challenger Drive
Suite 103
Alameda, CA 94501

PHONE: 510-633-5640

P.O. #

FAX: (510) 633-5640

PROJECT # 403627002 Project Thunder

DATE RECEIVED: 12/19/2019

CONTACT: Allyson Scott

DATE COMPLETED: 12/30/2019

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	B13-SV	Modified ASTM D-1946	3.3 "Hg	14.9 psi
02A	B11-SV	Modified ASTM D-1946	4.9 "Hg	15 psi
03A	B5-SV	Modified ASTM D-1946	2.6 "Hg	15.1 psi
04A	B6-SV	Modified ASTM D-1946	3.7 "Hg	15 psi
05A	Lab Blank	Modified ASTM D-1946	NA	NA
05B	Lab Blank	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA
06AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Technical Director

DATE: 12/30/19

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935

Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified ASTM D-1946
Ninyo & Moore
Workorder# 1912480B

Four 1 Liter Summa Canister samples were received on December 19, 2019. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	ASTM D-1946	ATL Modifications
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A minimum of 5-point calibration curve is performed. Quantitation is based on average Response Factor.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A time was not provided by the field sampler.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: B13-SV

Lab ID#: 1912480B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	19

Client Sample ID: B11-SV

Lab ID#: 1912480B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	20

Client Sample ID: B5-SV

Lab ID#: 1912480B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.1
Methane	0.00022	0.074

Client Sample ID: B6-SV

Lab ID#: 1912480B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	14



Air Toxics

Client Sample ID: B13-SV

Lab ID#: 1912480B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	10122708	Date of Collection: 12/18/19 12:19:00 P
Dil. Factor:	2.26	Date of Analysis: 12/27/19 02:23 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	19
Methane	0.00023	Not Detected
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: B11-SV

Lab ID#: 1912480B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10122709

Date of Collection: 12/18/19 11:46:00 A

Dil. Factor: 2.41

Date of Analysis: 12/27/19 02:45 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	20
Methane	0.00024	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: B5-SV

Lab ID#: 1912480B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10122710

Date of Collection: 12/18/19 11:03:00 A

Dil. Factor: 2.22

Date of Analysis: 12/27/19 03:07 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.1
Methane	0.00022	0.074
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: B6-SV

Lab ID#: 1912480B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10122711

Date of Collection: 12/18/19 10:28:00 A

Dil. Factor: 2.30

Date of Analysis: 12/27/19 03:28 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	14
Methane	0.00023	Not Detected
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1912480B-05A

MODIFIED NATURAL GAS ANALYSIS BY ASTM D-1946

File Name: 10122705

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 12/27/19 01:13 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1912480B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10122704c
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 12/27/19 12:48 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 1912480B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10122702

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 12/27/19 12:02 PM

Compound	%Recovery	Method Limits
Oxygen	97	85-115
Methane	107	85-115
Helium	98	85-115

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1912480B-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 10122703

Date of Collection: NA

Dil. Factor: 1.00

Date of Analysis: 12/27/19 12:25 PM

Compound	%Recovery	Method Limits
Oxygen	96	85-115
Methane	107	85-115
Helium	97	85-115

Container Type: NA - Not Applicable



Ninyo & Moore
2020 Challenger Drive, Suite 103
Alameda, California 94501
Tel: 510-343-3000
RE: 2535 and 2519 Pulgas Ave, East Palo Alto

Work Order No.: 1911272 Rev: 2

Dear Helen Hild:

Torrent Laboratory, Inc. received 14 sample(s) on November 26, 2019 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, flowing style.

Kathie Evans
Project Manager

December 26, 2019

Date



Date: 12/26/2019

Client: Ninyo & Moore

Project: 2535 and 2519 Pulgas Ave, East Palo Alto

Work Order: 1911272

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.

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Analytical Comments for method 6010B, 1911272-001A MSD, QC Analytical Preparation ID 1118572, Note: The % recovery for Chromium is outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

Analytical Comments for method 8081, 1911272-007A MS/MSD, QC Analytical Preparation ID 1118584, Note: The % RPD for Aldrin is outside of laboratory control limits but % recoveries are within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

The spikes in the MS/MSD for Dieldrin and 4,4-DDT are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

REVISIONS

Report revised to include STLC data.

Note: Extraction of 50 g sample / 500g 0.2M Sodium Citrate Solution was performed according to wet extraction procedure (WET) which was rotated in a rotary shaker for 48 hours (+/- 4 hours).

Date Prepared: 12/18/19 at 1:55 PM to 12/20/19 at 12:00 PM (8081 pesticides) and 12/18/19 at 3:00 PM to 12/20/19 at 11:15 AM (6010 metals)

Rev. 1 (12/26/19)

Report revised to include TCLP Chlordane data.

TCLP



Per client request, Chlordane TCLP was extracted and analyzed for sample -011A despite the sample exceeding the EPA recommended holding time of 14 days for pesticides.

Note: Extraction of 100 g sample/2000 g TCLP Fluid #1 was performed according to Toxicity Characteristic Leaching Procedure (SW-846 1311 TCLP) which was rotated in a rotary shaker@ 32 RPM for 18 hours (+/- 2 hours).

Date Prepared: 1/2/20 18:30 to 1/3/20 12:30

Rev. 2 (1/6/20)



Sample Result Summary

Report prepared for: Helen Hild
Ninyo & Moore

Date Received: 11/26/19

Date Reported: 12/26/19

B1-1

1911272-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.15	1.26	4.13	mg/Kg
Barium	SW6010B	1	0.053	4.85	120	mg/Kg
Chromium	SW6010B	1	0.073	4.85	50.0	mg/Kg
Cobalt	SW6010B	1	0.068	4.85	9.60	mg/Kg
Copper	SW6010B	1	0.19	4.85	34.8	mg/Kg
Lead	SW6010B	1	0.097	2.91	32.0	mg/Kg
Nickel	SW6010B	1	0.49	4.85	48.4	mg/Kg
Vanadium	SW6010B	1	0.097	4.85	39.3	mg/Kg
Zinc	SW6010B	1	0.29	4.85	47.9	mg/Kg
Chromium (STLC)	SW6010B	1	0.010	0.20	0.986	mg/L
TPH as Diesel	SW8015B	5	43	100	120	mg/Kg
TPH as Motor Oil	SW8015B	5	160	500	2680	mg/Kg
Heptachlor Epoxide	SW8081B	20	1.6	40	2.38	ug/Kg
gamma-Chlordane	SW8081B	20	3.3	40	6.70	ug/Kg
alpha-Chlordane	SW8081B	20	3.5	40	5.46	ug/Kg
4,4'-DDE	SW8081B	20	3.9	40	26.0	ug/Kg
Dieldrin	SW8081B	20	3.0	40	6.10	ug/Kg
Chlordane	SW8081B	20	42	400	61.3	ug/Kg

B2-2

1911272-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B	1	1.7	4.0	16.1	mg/Kg
TPH as Motor Oil	SW8015B	1	6.4	20	105	mg/Kg
gamma-Chlordane	SW8081B	10	1.6	20	23.2	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	18.9	ug/Kg
Dieldrin	SW8081B	10	1.5	20	74.3	ug/Kg
4,4'-DDD	SW8081B	10	5.7	20	236	ug/Kg
4,4'-DDT	SW8081B	10	1.3	20	3.69	ug/Kg
Chlordane	SW8081B	10	21	200	225	ug/Kg
4,4'-DDE	SW8081B	20	3.9	40	824	ug/Kg



Sample Result Summary

Report prepared for: Helen Hild
Ninyo & Moore

Date Received: 11/26/19

Date Reported: 12/26/19

B3-1

1911272-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.14	1.20	3.62	mg/Kg
Barium	SW6010B	1	0.051	4.63	142	mg/Kg
Chromium	SW6010B	1	0.069	4.63	33.2	mg/Kg
Cobalt	SW6010B	1	0.065	4.63	9.89	mg/Kg
Copper	SW6010B	1	0.19	4.63	32.0	mg/Kg
Lead	SW6010B	1	0.093	2.78	21.5	mg/Kg
Nickel	SW6010B	1	0.46	4.63	50.0	mg/Kg
Vanadium	SW6010B	1	0.093	4.63	36.9	mg/Kg
Zinc	SW6010B	1	0.28	4.63	131	mg/Kg
TPH as Diesel	SW8015B	5	43	100	243	mg/Kg
TPH as Motor Oil	SW8015B	5	160	500	2970	mg/Kg
alpha-Chlordane	SW8081B	20	3.5	40	3.86	ug/Kg
4,4'-DDE	SW8081B	20	3.9	40	51.1	ug/Kg
Dieldrin	SW8081B	20	3.0	40	6.98	ug/Kg

B4-2

1911272-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B	2	68	160	322	mg/Kg
TPH as Motor Oil	SW8015B	2	250	800	4900	mg/Kg
4,4'-DDE	SW8081B	20	3.9	40	7.60	ug/Kg
Dieldrin	SW8081B	20	3.0	40	3.64	ug/Kg

B5-1

1911272-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.14	1.24	1.88	mg/Kg
Barium	SW6010B	1	0.052	4.76	174	mg/Kg
Chromium	SW6010B	1	0.071	4.76	10.2	mg/Kg
Cobalt	SW6010B	1	0.067	4.76	7.69	mg/Kg
Copper	SW6010B	1	0.19	4.76	7.00	mg/Kg
Lead	SW6010B	1	0.095	2.86	5.62	mg/Kg
Nickel	SW6010B	1	0.48	4.76	9.28	mg/Kg
Vanadium	SW6010B	1	0.095	4.76	34.8	mg/Kg
Zinc	SW6010B	1	0.29	4.76	74.6	mg/Kg
TPH as Diesel	SW8015B	1	3.4	8.0	166	mg/Kg
TPH as Motor Oil	SW8015B	1	13	40	260	mg/Kg
alpha-Chlordane	SW8081B	20	3.5	40	3.84	ug/Kg
4,4'-DDE	SW8081B	20	3.9	40	4.64	ug/Kg
Dieldrin	SW8081B	20	3.0	40	12.8	ug/Kg
4,4'-DDT	SW8081B	20	2.6	40	3.80	ug/Kg



Sample Result Summary

Report prepared for: Helen Hild
Ninyo & Moore

Date Received: 11/26/19

Date Reported: 12/26/19

B6-2

1911272-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Motor Oil	SW8015B	1	3.2	10	21.4	mg/Kg
gamma-Chlordane	SW8081B	10	1.6	20	2.29	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	1.82	ug/Kg
4,4'-DDE	SW8081B	10	1.9	20	3.36	ug/Kg
4,4'-DDT	SW8081B	10	1.3	20	1.76	ug/Kg

B7-1

1911272-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.15	1.26	5.00	mg/Kg
Barium	SW6010B	1	0.053	4.85	141	mg/Kg
Chromium	SW6010B	1	0.073	4.85	39.8	mg/Kg
Cobalt	SW6010B	1	0.068	4.85	8.07	mg/Kg
Copper	SW6010B	1	0.19	4.85	29.5	mg/Kg
Lead	SW6010B	1	0.097	2.91	16.1	mg/Kg
Nickel	SW6010B	1	0.49	4.85	36.2	mg/Kg
Vanadium	SW6010B	1	0.097	4.85	35.4	mg/Kg
Zinc	SW6010B	1	0.29	4.85	98.1	mg/Kg
TPH as Diesel	SW8015B	1	0.85	2.0	6.66	mg/Kg
TPH as Motor Oil	SW8015B	1	3.2	10	42.2	mg/Kg
gamma-Chlordane	SW8081B	10	1.6	20	129	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	54.6	ug/Kg
Endrin	SW8081B	10	1.9	20	23.2	ug/Kg
4,4'-DDD	SW8081B	10	5.7	20	118	ug/Kg
Endrin Ketone	SW8081B	10	0.94	20	8.82	ug/Kg
Chlordane	SW8081B	10	21	200	713	ug/Kg
4,4'-DDE	SW8081B	50	9.7	100	1600	ug/Kg
Dieldrin	SW8081B	50	7.4	100	2110	ug/Kg
4,4'-DDT	SW8081B	50	6.5	100	1560	ug/Kg

B8-2

1911272-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
beta-BHC	SW8081B	10	3.2	20	7.37	ug/Kg
gamma-Chlordane	SW8081B	10	1.6	20	3.27	ug/Kg
4,4'-DDE	SW8081B	10	1.9	20	46.0	ug/Kg
Dieldrin	SW8081B	10	1.5	20	67.9	ug/Kg
4,4'-DDT	SW8081B	10	1.3	20	14.5	ug/Kg
Chlordane	SW8081B	10	21	200	25.4	ug/Kg



Sample Result Summary

Report prepared for: Helen Hild
Ninyo & Moore

Date Received: 11/26/19

Date Reported: 12/26/19

B9-1

1911272-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.14	1.20	4.04	mg/Kg
Barium	SW6010B	1	0.051	4.63	142	mg/Kg
Chromium	SW6010B	1	0.069	4.63	33.5	mg/Kg
Cobalt	SW6010B	1	0.065	4.63	8.44	mg/Kg
Copper	SW6010B	1	0.19	4.63	24.9	mg/Kg
Lead	SW6010B	1	0.093	2.78	6.56	mg/Kg
Nickel	SW6010B	1	0.46	4.63	37.1	mg/Kg
Vanadium	SW6010B	1	0.093	4.63	35.9	mg/Kg
Zinc	SW6010B	1	0.28	4.63	53.9	mg/Kg
TPH as Diesel	SW8015B	1	0.85	2.0	2.42	mg/Kg
TPH as Motor Oil	SW8015B	1	3.2	10	13.4	mg/Kg
gamma-Chlordane	SW8081B	10	1.6	20	39.9	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	30.3	ug/Kg
4,4'-DDE	SW8081B	10	1.9	20	229	ug/Kg
Dieldrin	SW8081B	10	1.5	20	95.9	ug/Kg
4,4'-DDD	SW8081B	10	5.7	20	17.8	ug/Kg
4,4'-DDT	SW8081B	10	1.3	20	194	ug/Kg
Chlordane	SW8081B	10	21	200	320	ug/Kg

B10-2

1911272-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B	1	0.85	2.0	3.03	mg/Kg
TPH as Motor Oil	SW8015B	1	3.2	10	12.2	mg/Kg
delta-BHC	SW8081B	10	1.6	20	4.49	ug/Kg
4,4'-DDE	SW8081B	10	1.9	20	16.3	ug/Kg
Dieldrin	SW8081B	10	1.5	20	3.54	ug/Kg



Sample Result Summary

Report prepared for: Helen Hild
Ninyo & Moore

Date Received: 11/26/19

Date Reported: 12/26/19

B11-1

1911272-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.14	1.23	5.16	mg/Kg
Barium	SW6010B	1	0.052	4.72	186	mg/Kg
Chromium	SW6010B	1	0.071	4.72	41.4	mg/Kg
Cobalt	SW6010B	1	0.066	4.72	10.1	mg/Kg
Copper	SW6010B	1	0.19	4.72	28.0	mg/Kg
Lead	SW6010B	1	0.094	2.83	11.3	mg/Kg
Nickel	SW6010B	1	0.47	4.72	44.4	mg/Kg
Vanadium	SW6010B	1	0.094	4.72	42.2	mg/Kg
Zinc	SW6010B	1	0.28	4.72	83.2	mg/Kg
TPH as Diesel	SW8015B	1	0.85	2.0	4.60	mg/Kg
TPH as Motor Oil	SW8015B	1	3.2	10	19.7	mg/Kg
gamma-Chlordane	SW8081B	10	1.6	20	90.8	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	56.3	ug/Kg
4,4'-DDE	SW8081B	10	1.9	20	432	ug/Kg
Dieldrin	SW8081B	10	1.5	20	337	ug/Kg
4,4'-DDD	SW8081B	10	5.7	20	43.7	ug/Kg
4,4'-DDT	SW8081B	10	1.3	20	568	ug/Kg
Chlordane	SW8081B	10	21	200	649	ug/Kg

B12-2

1911272-012

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Motor Oil	SW8015B	1	3.2	10	12.9	mg/Kg
delta-BHC	SW8081B	10	1.6	20	10.1	ug/Kg
gamma-Chlordane	SW8081B	10	1.6	20	3.26	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	2.92	ug/Kg
4,4'-DDE	SW8081B	10	1.9	20	22.2	ug/Kg
Dieldrin	SW8081B	10	1.5	20	21.4	ug/Kg
4,4'-DDT	SW8081B	10	1.3	20	13.1	ug/Kg
Chlordane	SW8081B	10	21	200	31.0	ug/Kg

B11-GW

1911272-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B	1	0.041	0.11	0.222	mg/L
MTBE	SW8260B	1.17	0.090	0.59	2.8	ug/L
Benzene	SW8260B	1.17	0.076	0.59	0.082	ug/L



Sample Result Summary

Report prepared for: Helen Hild
Ninyo & Moore

Date Received: 11/26/19

Date Reported: 12/26/19

B5-GW

1911272-014

Parameters:

	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
TPH as Diesel	SW8015B	1	0.039	0.11	0.195	mg/L
MTBE	SW8260B	1.11	0.085	0.56	1.7	ug/L



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B1-1	Lab Sample ID:	1911272-001A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:30		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	11/27/19 9:00:00AM
Prep Batch ID:	1118571	Prep Analyst:	IRNAZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.081	0.48	ND		mg/Kg	11/27/19	12:35	BJAY	444214



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B1-1	Lab Sample ID:	1911272-001A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:30		
SDG:			

Prep Method: 3050B	Prep Batch Date/Time: 11/27/19 10:30:00AM
Prep Batch ID: 1118572	Prep Analyst: PPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.049	4.85	ND		mg/Kg	11/27/19	16:09	PPATEL	444235
Arsenic	SW6010B	1	0.15	1.26	4.13		mg/Kg	11/27/19	16:09	PPATEL	444235
Barium	SW6010B	1	0.053	4.85	120		mg/Kg	11/27/19	16:09	PPATEL	444235
Beryllium	SW6010B	1	0.053	4.85	ND		mg/Kg	11/27/19	16:09	PPATEL	444235
Cadmium	SW6010B	1	0.097	4.85	ND		mg/Kg	11/27/19	16:09	PPATEL	444235
Chromium	SW6010B	1	0.073	4.85	50.0		mg/Kg	11/27/19	16:09	PPATEL	444235
Cobalt	SW6010B	1	0.068	4.85	9.60		mg/Kg	11/27/19	16:09	PPATEL	444235
Copper	SW6010B	1	0.19	4.85	34.8		mg/Kg	11/27/19	16:09	PPATEL	444235
Lead	SW6010B	1	0.097	2.91	32.0		mg/Kg	11/27/19	16:09	PPATEL	444235
Molybdenum	SW6010B	1	0.049	4.85	ND		mg/Kg	11/27/19	16:09	PPATEL	444235
Nickel	SW6010B	1	0.49	4.85	48.4		mg/Kg	11/27/19	16:09	PPATEL	444235
Selenium	SW6010B	1	0.21	4.85	ND		mg/Kg	11/27/19	16:09	PPATEL	444235
Silver	SW6010B	1	0.15	4.85	ND		mg/Kg	11/27/19	16:09	PPATEL	444235
Thallium	SW6010B	1	0.53	4.85	ND		mg/Kg	11/27/19	16:09	PPATEL	444235
Vanadium	SW6010B	1	0.097	4.85	39.3		mg/Kg	11/27/19	16:09	PPATEL	444235
Zinc	SW6010B	1	0.29	4.85	47.9		mg/Kg	11/27/19	16:09	PPATEL	444235



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B1-1	Lab Sample ID:	1911272-001A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:30		
SDG:			

Prep Method:	WET/3010B	Prep Batch Date/Time:	12/20/19 11:40:00AM
Prep Batch ID:	1119050	Prep Analyst:	VTSUI

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chromium (STLC)	SW6010B	1	0.010	0.20	0.986		mg/L	12/20/19	15:30	PPATEL	444727



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B1-1	Lab Sample ID:	1911272-001A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:30		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	11/27/19	19:10	LA	444242
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	11/27/19	19:10	LA	444242
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	11/27/19	19:10	LA	444242
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Heptachlor Epoxide	SW8081B	20	1.6	40	2.38	J	ug/Kg	11/27/19	19:10	LA	444242
gamma-Chlordane	SW8081B	20	3.3	40	6.70	J	ug/Kg	11/27/19	19:10	LA	444242
alpha-Chlordane	SW8081B	20	3.5	40	5.46	J	ug/Kg	11/27/19	19:10	LA	444242
4,4'-DDE	SW8081B	20	3.9	40	26.0	J	ug/Kg	11/27/19	19:10	LA	444242
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Dieldrin	SW8081B	20	3.0	40	6.10	J	ug/Kg	11/27/19	19:10	LA	444242
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	11/27/19	19:10	LA	444242
4,4'-DDD	SW8081B	20	11	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	11/27/19	19:10	LA	444242
4,4'-DDT	SW8081B	20	2.6	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	11/27/19	19:10	LA	444242
Chlordane	SW8081B	20	42	400	61.3	J	ug/Kg	11/27/19	19:10	LA	444242
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	11/27/19	19:10	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		0.000	D	%	11/27/19	19:10	LA	444242
DCBP (S)	SW8081B		38 - 135		0.000	D	%	11/27/19	19:10	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B1-1	Lab Sample ID:	1911272-001A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:30		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	5	43	100	120	X	mg/Kg	12/02/19	13:19	mk	444241
TPH as Motor Oil	SW8015B	5	160	500	2680		mg/Kg	12/02/19	13:19	mk	444241
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		0.000	D	%	12/02/19	13:19	mk	444241

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B2-2	Lab Sample ID:	1911272-002A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:10		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	11/27/19 2:45:00PM
Prep Batch ID:	1118584	Prep Analyst:	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	19:24	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	19:24	LA	444242
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	11/27/19	19:24	LA	444242
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	19:24	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	23.2		ug/Kg	11/27/19	19:24	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	18.9	J	ug/Kg	11/27/19	19:24	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Dieldrin	SW8081B	10	1.5	20	74.3		ug/Kg	11/27/19	19:24	LA	444242
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	11/27/19	19:24	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	236		ug/Kg	11/27/19	19:24	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	19:24	LA	444242
4,4'-DDT	SW8081B	10	1.3	20	3.69	J	ug/Kg	11/27/19	19:24	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	11/27/19	19:24	LA	444242
Chlordane	SW8081B	10	21	200	225		ug/Kg	11/27/19	19:24	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	19:24	LA	444242

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	69.9		%	11/27/19	19:24	LA	444242
DCBP (S)	SW8081B		38 - 135	62.9		%	11/27/19	19:24	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B2-2	Lab Sample ID:	1911272-002A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:10		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	11/27/19 2:45:00PM
Prep Batch ID:	1118584	Prep Analyst:	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
4,4'-DDE	SW8081B	20	3.9	40	824		ug/Kg	12/03/19	15:01	LA	444274



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B2-2	Lab Sample ID:	1911272-002A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:10		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	1.7	4.0	16.1	x	mg/Kg	11/27/19	20:25	MK	444241
TPH as Motor Oil	SW8015B	1	6.4	20	105		mg/Kg	11/27/19	20:25	MK	444241
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		104		%	11/27/19	20:25	MK	444241

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B3-1	Lab Sample ID:	1911272-003A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 12:44		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	11/27/19 9:00:00AM
Prep Batch ID:	1118571	Prep Analyst:	IRNAZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.077	0.46	ND		mg/Kg	11/27/19	12:38	BJAY	444214



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B3-1	Lab Sample ID:	1911272-003A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 12:44		
SDG:			

Prep Method: 3050B	Prep Batch Date/Time: 11/27/19 10:30:00AM
Prep Batch ID: 1118572	Prep Analyst: PPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.046	4.63	ND		mg/Kg	11/27/19	16:20	PPATEL	444235
Arsenic	SW6010B	1	0.14	1.20	3.62		mg/Kg	11/27/19	16:20	PPATEL	444235
Barium	SW6010B	1	0.051	4.63	142		mg/Kg	11/27/19	16:20	PPATEL	444235
Beryllium	SW6010B	1	0.051	4.63	ND		mg/Kg	11/27/19	16:20	PPATEL	444235
Cadmium	SW6010B	1	0.093	4.63	ND		mg/Kg	11/27/19	16:20	PPATEL	444235
Chromium	SW6010B	1	0.069	4.63	33.2		mg/Kg	11/27/19	16:20	PPATEL	444235
Cobalt	SW6010B	1	0.065	4.63	9.89		mg/Kg	11/27/19	16:20	PPATEL	444235
Copper	SW6010B	1	0.19	4.63	32.0		mg/Kg	11/27/19	16:20	PPATEL	444235
Lead	SW6010B	1	0.093	2.78	21.5		mg/Kg	11/27/19	16:20	PPATEL	444235
Molybdenum	SW6010B	1	0.046	4.63	ND		mg/Kg	11/27/19	16:20	PPATEL	444235
Nickel	SW6010B	1	0.46	4.63	50.0		mg/Kg	11/27/19	16:20	PPATEL	444235
Selenium	SW6010B	1	0.20	4.63	ND		mg/Kg	11/27/19	16:20	PPATEL	444235
Silver	SW6010B	1	0.14	4.63	ND		mg/Kg	11/27/19	16:20	PPATEL	444235
Thallium	SW6010B	1	0.51	4.63	ND		mg/Kg	11/27/19	16:20	PPATEL	444235
Vanadium	SW6010B	1	0.093	4.63	36.9		mg/Kg	11/27/19	16:20	PPATEL	444235
Zinc	SW6010B	1	0.28	4.63	131		mg/Kg	11/27/19	16:20	PPATEL	444235



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B3-1	Lab Sample ID:	1911272-003A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 12:44		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	11/27/19	19:37	LA	444242
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	11/27/19	19:37	LA	444242
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	11/27/19	19:37	LA	444242
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	11/27/19	19:37	LA	444242
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	11/27/19	19:37	LA	444242
alpha-Chlordane	SW8081B	20	3.5	40	3.86	J	ug/Kg	11/27/19	19:37	LA	444242
4,4'-DDE	SW8081B	20	3.9	40	51.1		ug/Kg	11/27/19	19:37	LA	444242
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Dieldrin	SW8081B	20	3.0	40	6.98	J	ug/Kg	11/27/19	19:37	LA	444242
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	11/27/19	19:37	LA	444242
4,4'-DDD	SW8081B	20	11	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	11/27/19	19:37	LA	444242
4,4'-DDT	SW8081B	20	2.6	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	11/27/19	19:37	LA	444242
Chlordane	SW8081B	20	42	400	ND		ug/Kg	11/27/19	19:37	LA	444242
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	11/27/19	19:37	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		0.000	D	%	11/27/19	19:37	LA	444242
DCBP (S)	SW8081B		38 - 135		0.000	D	%	11/27/19	19:37	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B3-1	Lab Sample ID:	1911272-003A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 12:44		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	5	43	100	243	X	mg/Kg	12/02/19	13:43	MK	444241
TPH as Motor Oil	SW8015B	5	160	500	2970		mg/Kg	12/02/19	13:43	MK	444241
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		0.000	D	%	12/02/19	13:43	MK	444241

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B4-2	Lab Sample ID:	1911272-004A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:51		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	11/27/19	19:51	LA	444242
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	11/27/19	19:51	LA	444242
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	11/27/19	19:51	LA	444242
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	11/27/19	19:51	LA	444242
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	11/27/19	19:51	LA	444242
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	11/27/19	19:51	LA	444242
4,4'-DDE	SW8081B	20	3.9	40	7.60	J	ug/Kg	11/27/19	19:51	LA	444242
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Dieldrin	SW8081B	20	3.0	40	3.64	J	ug/Kg	11/27/19	19:51	LA	444242
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	11/27/19	19:51	LA	444242
4,4'-DDD	SW8081B	20	11	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	11/27/19	19:51	LA	444242
4,4'-DDT	SW8081B	20	2.6	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	11/27/19	19:51	LA	444242
Chlordane	SW8081B	20	42	400	ND		ug/Kg	11/27/19	19:51	LA	444242
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	11/27/19	19:51	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		0.000	D	%	11/27/19	19:51	LA	444242
DCBP (S)	SW8081B		38 - 135		0.000	D	%	11/27/19	19:51	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B4-2	Lab Sample ID:	1911272-004A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 13:51		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	2	68	160	322	X	mg/Kg	12/02/19	13:43	MK	444241
TPH as Motor Oil	SW8015B	2	250	800	4900		mg/Kg	12/02/19	13:43	MK	444241
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		0.000	D	%	12/02/19	13:43	MK	444241

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-1	Lab Sample ID:	1911272-005A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 10:10		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	11/27/19 9:00:00AM
Prep Batch ID:	1118571	Prep Analyst:	IRNAZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.082	0.49	ND		mg/Kg	11/27/19	12:40	BJAY	444214



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-1	Lab Sample ID:	1911272-005A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 10:10		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	11/27/19 10:30:00AM
Prep Batch ID:	1118572	Prep Analyst:	PPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.048	4.76	ND		mg/Kg	11/27/19	16:28	PPATEL	444235
Arsenic	SW6010B	1	0.14	1.24	1.88		mg/Kg	11/27/19	16:28	PPATEL	444235
Barium	SW6010B	1	0.052	4.76	174		mg/Kg	11/27/19	16:28	PPATEL	444235
Beryllium	SW6010B	1	0.052	4.76	ND		mg/Kg	11/27/19	16:28	PPATEL	444235
Cadmium	SW6010B	1	0.095	4.76	ND		mg/Kg	11/27/19	16:28	PPATEL	444235
Chromium	SW6010B	1	0.071	4.76	10.2		mg/Kg	11/27/19	16:28	PPATEL	444235
Cobalt	SW6010B	1	0.067	4.76	7.69		mg/Kg	11/27/19	16:28	PPATEL	444235
Copper	SW6010B	1	0.19	4.76	7.00		mg/Kg	11/27/19	16:28	PPATEL	444235
Lead	SW6010B	1	0.095	2.86	5.62		mg/Kg	11/27/19	16:28	PPATEL	444235
Molybdenum	SW6010B	1	0.048	4.76	ND		mg/Kg	11/27/19	16:28	PPATEL	444235
Nickel	SW6010B	1	0.48	4.76	9.28		mg/Kg	11/27/19	16:28	PPATEL	444235
Selenium	SW6010B	1	0.21	4.76	ND		mg/Kg	11/27/19	16:28	PPATEL	444235
Silver	SW6010B	1	0.14	4.76	ND		mg/Kg	11/27/19	16:28	PPATEL	444235
Vanadium	SW6010B	1	0.095	4.76	34.8		mg/Kg	11/27/19	16:28	PPATEL	444235
Zinc	SW6010B	1	0.29	4.76	74.6		mg/Kg	11/27/19	16:28	PPATEL	444235



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-1	Lab Sample ID:	1911272-005A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 10:10		
SDG:			

Prep Method:	3050B	Prep Batch Date/Time:	11/27/19 10:30:00AM
Prep Batch ID:	1118572	Prep Analyst:	PPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Thallium	SW6010B	10	5.5	50.0	ND		mg/Kg	11/27/19	17:55	PPATEL	444239
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NOTE: Diluted to suppression of the spectral signal in undiluted run



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-1	Lab Sample ID:	1911272-005A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 10:10		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	11/27/19	20:04	LA	444242
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	11/27/19	20:04	LA	444242
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	11/27/19	20:04	LA	444242
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	11/27/19	20:04	LA	444242
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	11/27/19	20:04	LA	444242
alpha-Chlordane	SW8081B	20	3.5	40	3.84	J	ug/Kg	11/27/19	20:04	LA	444242
4,4'-DDE	SW8081B	20	3.9	40	4.64	J	ug/Kg	11/27/19	20:04	LA	444242
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Dieldrin	SW8081B	20	3.0	40	12.8	J	ug/Kg	11/27/19	20:04	LA	444242
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	11/27/19	20:04	LA	444242
4,4'-DDD	SW8081B	20	11	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	11/27/19	20:04	LA	444242
4,4'-DDT	SW8081B	20	2.6	40	3.80	J	ug/Kg	11/27/19	20:04	LA	444242
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	11/27/19	20:04	LA	444242
Chlordane	SW8081B	20	42	400	ND		ug/Kg	11/27/19	20:04	LA	444242
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	11/27/19	20:04	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		0.000	D	%	11/27/19	20:04	LA	444242
DCBP (S)	SW8081B		38 - 135		0.000	D	%	11/27/19	20:04	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-1	Lab Sample ID:	1911272-005A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 10:10		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	3.4	8.0	166	x	mg/Kg	11/27/19	21:35	MK	444241
TPH as Motor Oil	SW8015B	1	13	40	260		mg/Kg	11/27/19	21:35	MK	444241
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		76.8		%	11/27/19	21:35	MK	444241

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B6-2	Lab Sample ID:	1911272-006A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 12:09		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	20:17	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	20:17	LA	444242
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	11/27/19	20:17	LA	444242
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	20:17	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	2.29	J	ug/Kg	11/27/19	20:17	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	1.82	J	ug/Kg	11/27/19	20:17	LA	444242
4,4'-DDE	SW8081B	10	1.9	20	3.36	J	ug/Kg	11/27/19	20:17	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Dieldrin	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	11/27/19	20:17	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	20:17	LA	444242
4,4'-DDT	SW8081B	10	1.3	20	1.76	J	ug/Kg	11/27/19	20:17	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	11/27/19	20:17	LA	444242
Chlordane	SW8081B	10	21	200	ND		ug/Kg	11/27/19	20:17	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	20:17	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		81.0		%	11/27/19	20:17	LA	444242
DCBP (S)	SW8081B		38 - 135		76.6		%	11/27/19	20:17	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B6-2	Lab Sample ID:	1911272-006A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 12:09		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.85	2.0	ND		mg/Kg	11/27/19	21:59	MK	444241
TPH as Motor Oil	SW8015B	1	3.2	10	21.4		mg/Kg	11/27/19	21:59	MK	444241
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		62.2		%	11/27/19	21:59	MK	444241



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B7-1	Lab Sample ID:	1911272-007A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:37		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	11/27/19 9:00:00AM
Prep Batch ID:	1118571	Prep Analyst:	IRNAZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.079	0.48	ND		mg/Kg	11/27/19	12:42	BJAY	444214



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B7-1	Lab Sample ID:	1911272-007A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:37		
SDG:			

Prep Method: 3050B	Prep Batch Date/Time: 11/27/19 10:30:00AM
Prep Batch ID: 1118572	Prep Analyst: PPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.049	4.85	ND		mg/Kg	11/27/19	16:32	PPATEL	444235
Arsenic	SW6010B	1	0.15	1.26	5.00		mg/Kg	11/27/19	16:32	PPATEL	444235
Barium	SW6010B	1	0.053	4.85	141		mg/Kg	11/27/19	16:32	PPATEL	444235
Beryllium	SW6010B	1	0.053	4.85	ND		mg/Kg	11/27/19	16:32	PPATEL	444235
Cadmium	SW6010B	1	0.097	4.85	ND		mg/Kg	11/27/19	16:32	PPATEL	444235
Chromium	SW6010B	1	0.073	4.85	39.8		mg/Kg	11/27/19	16:32	PPATEL	444235
Cobalt	SW6010B	1	0.068	4.85	8.07		mg/Kg	11/27/19	16:32	PPATEL	444235
Copper	SW6010B	1	0.19	4.85	29.5		mg/Kg	11/27/19	16:32	PPATEL	444235
Lead	SW6010B	1	0.097	2.91	16.1		mg/Kg	11/27/19	16:32	PPATEL	444235
Molybdenum	SW6010B	1	0.049	4.85	ND		mg/Kg	11/27/19	16:32	PPATEL	444235
Nickel	SW6010B	1	0.49	4.85	36.2		mg/Kg	11/27/19	16:32	PPATEL	444235
Selenium	SW6010B	1	0.21	4.85	ND		mg/Kg	11/27/19	16:32	PPATEL	444235
Silver	SW6010B	1	0.15	4.85	ND		mg/Kg	11/27/19	16:32	PPATEL	444235
Thallium	SW6010B	1	0.53	4.85	ND		mg/Kg	11/27/19	16:32	PPATEL	444235
Vanadium	SW6010B	1	0.097	4.85	35.4		mg/Kg	11/27/19	16:32	PPATEL	444235
Zinc	SW6010B	1	0.29	4.85	98.1		mg/Kg	11/27/19	16:32	PPATEL	444235



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B7-1	Lab Sample ID:	1911272-007A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:37		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	11/27/19 2:45:00PM
Prep Batch ID:	1118584	Prep Analyst:	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	20:31	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	20:31	LA	444242
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	11/27/19	20:31	LA	444242
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	20:31	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	129		ug/Kg	11/27/19	20:31	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	54.6		ug/Kg	11/27/19	20:31	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Endrin	SW8081B	10	1.9	20	23.2		ug/Kg	11/27/19	20:31	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	118		ug/Kg	11/27/19	20:31	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	20:31	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	8.82	J	ug/Kg	11/27/19	20:31	LA	444242
Chlordane	SW8081B	10	21	200	713		ug/Kg	11/27/19	20:31	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	20:31	LA	444242

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	84.8		%	11/27/19	20:31	LA	444242
DCBP (S)	SW8081B		38 - 135	83.2		%	11/27/19	20:31	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B7-1	Lab Sample ID:	1911272-007A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:37		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	11/27/19 2:45:00PM
Prep Batch ID:	1118584	Prep Analyst:	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
4,4'-DDE	SW8081B	50	9.7	100	1600		ug/Kg	12/02/19	17:06	LA	444256
Dieldrin	SW8081B	50	7.4	100	2110		ug/Kg	12/02/19	17:06	LA	444256
4,4'-DDT	SW8081B	50	6.5	100	1560		ug/Kg	12/02/19	17:06	LA	444256



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B7-1	Lab Sample ID:	1911272-007A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:37		
SDG:			

Prep Method:	WET/3510C	Prep Batch Date/Time:	12/24/19 11:36:00AM
Prep Batch ID:	1119133	Prep Analyst:	LIMBAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlordane (STLC)	SW8081A	1	1.3	2.5	ND		ug/L	12/24/19	15:01	LA	444766
			Acceptance Limits								
TCMX (S)	SW8081A		44 - 125		98.8		%	12/24/19	15:01	LA	444766
DCBP (S)	SW8081A		44 - 124		108		%	12/24/19	15:01	LA	444766



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B7-1	Lab Sample ID:	1911272-007A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:37		
SDG:			

Prep Method:	1311/3510C	Prep Batch Date/Time:	1/3/20 1:37:00PM
Prep Batch ID:	1119321	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlordane (TCLP)	SW8081A	1	0.0013	0.0025	ND		mg/L	01/03/20	17:24	LA	444928
			Acceptance Limits								
TCMX (S)	SW8081A		44 - 125		87.2		%	01/03/20	17:24	LA	444928
DCBP (S)	SW8081A		44 - 124		107		%	01/03/20	17:24	LA	444928



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B7-1	Lab Sample ID:	1911272-007A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:37		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.85	2.0	6.66	x	mg/Kg	11/27/19	22:22	MK	444241
TPH as Motor Oil	SW8015B	1	3.2	10	42.2		mg/Kg	11/27/19	22:22	MK	444241
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		61.6		%	11/27/19	22:22	MK	444241

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B8-2	Lab Sample ID:	1911272-008A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:32		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	21:11	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	21:11	LA	444242
beta-BHC	SW8081B	10	3.2	20	7.37	J	ug/Kg	11/27/19	21:11	LA	444242
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	21:11	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	3.27	J	ug/Kg	11/27/19	21:11	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	11/27/19	21:11	LA	444242
4,4'-DDE	SW8081B	10	1.9	20	46.0		ug/Kg	11/27/19	21:11	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Dieldrin	SW8081B	10	1.5	20	67.9		ug/Kg	11/27/19	21:11	LA	444242
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	11/27/19	21:11	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	21:11	LA	444242
4,4'-DDT	SW8081B	10	1.3	20	14.5	J	ug/Kg	11/27/19	21:11	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	11/27/19	21:11	LA	444242
Chlordane	SW8081B	10	21	200	25.4	J	ug/Kg	11/27/19	21:11	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	21:11	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		89.2		%	11/27/19	21:11	LA	444242
DCBP (S)	SW8081B		38 - 135		86.6		%	11/27/19	21:11	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B8-2	Lab Sample ID:	1911272-008A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:32		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.85	2.0	ND		mg/Kg	11/27/19	23:32	MK	444241
TPH as Motor Oil	SW8015B	1	3.2	10	ND		mg/Kg	11/27/19	23:32	MK	444241
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		71.0		%	11/27/19	23:32	MK	444241



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B9-1	Lab Sample ID:	1911272-009A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:23		
SDG:			

Prep Method: 7471BP	Prep Batch Date/Time: 11/27/19 9:00:00AM
Prep Batch ID: 1118571	Prep Analyst: IRNAZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.083	0.50	ND		mg/Kg	11/27/19	12:44	BJAY	444214



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B9-1	Lab Sample ID:	1911272-009A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:23		
SDG:			

Prep Method: 3050B	Prep Batch Date/Time: 11/27/19 10:30:00AM
Prep Batch ID: 1118572	Prep Analyst: PPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.046	4.63	ND		mg/Kg	11/27/19	16:43	PPATEL	444235
Arsenic	SW6010B	1	0.14	1.20	4.04		mg/Kg	11/27/19	16:43	PPATEL	444235
Barium	SW6010B	1	0.051	4.63	142		mg/Kg	11/27/19	16:43	PPATEL	444235
Beryllium	SW6010B	1	0.051	4.63	ND		mg/Kg	11/27/19	16:43	PPATEL	444235
Cadmium	SW6010B	1	0.093	4.63	ND		mg/Kg	11/27/19	16:43	PPATEL	444235
Chromium	SW6010B	1	0.069	4.63	33.5		mg/Kg	11/27/19	16:43	PPATEL	444235
Cobalt	SW6010B	1	0.065	4.63	8.44		mg/Kg	11/27/19	16:43	PPATEL	444235
Copper	SW6010B	1	0.19	4.63	24.9		mg/Kg	11/27/19	16:43	PPATEL	444235
Lead	SW6010B	1	0.093	2.78	6.56		mg/Kg	11/27/19	16:43	PPATEL	444235
Molybdenum	SW6010B	1	0.046	4.63	ND		mg/Kg	11/27/19	16:43	PPATEL	444235
Nickel	SW6010B	1	0.46	4.63	37.1		mg/Kg	11/27/19	16:43	PPATEL	444235
Selenium	SW6010B	1	0.20	4.63	ND		mg/Kg	11/27/19	16:43	PPATEL	444235
Silver	SW6010B	1	0.14	4.63	ND		mg/Kg	11/27/19	16:43	PPATEL	444235
Thallium	SW6010B	1	0.51	4.63	ND		mg/Kg	11/27/19	16:43	PPATEL	444235
Vanadium	SW6010B	1	0.093	4.63	35.9		mg/Kg	11/27/19	16:43	PPATEL	444235
Zinc	SW6010B	1	0.28	4.63	53.9		mg/Kg	11/27/19	16:43	PPATEL	444235



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B9-1	Lab Sample ID:	1911272-009A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:23		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	21:51	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	21:51	LA	444242
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	11/27/19	21:51	LA	444242
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	21:51	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	39.9		ug/Kg	11/27/19	21:51	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	30.3		ug/Kg	11/27/19	21:51	LA	444242
4,4'-DDE	SW8081B	10	1.9	20	229		ug/Kg	11/27/19	21:51	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Dieldrin	SW8081B	10	1.5	20	95.9		ug/Kg	11/27/19	21:51	LA	444242
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	11/27/19	21:51	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	17.8	J	ug/Kg	11/27/19	21:51	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	21:51	LA	444242
4,4'-DDT	SW8081B	10	1.3	20	194		ug/Kg	11/27/19	21:51	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	11/27/19	21:51	LA	444242
Chlordane	SW8081B	10	21	200	320		ug/Kg	11/27/19	21:51	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	21:51	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		92.6		%	11/27/19	21:51	LA	444242
DCBP (S)	SW8081B		38 - 135		94.7		%	11/27/19	21:51	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B9-1	Lab Sample ID:	1911272-009A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:23		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.85	2.0	2.42	x	mg/Kg	11/27/19	23:55	MK	444241
TPH as Motor Oil	SW8015B	1	3.2	10	13.4		mg/Kg	11/27/19	23:55	MK	444241
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		74.1		%	11/27/19	23:55	MK	444241

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B10-2	Lab Sample ID:	1911272-010A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:44		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	11/27/19 2:45:00PM
Prep Batch ID:	1118584	Prep Analyst:	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	22:05	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	22:05	LA	444242
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	11/27/19	22:05	LA	444242
delta-BHC	SW8081B	10	1.6	20	4.49	J	ug/Kg	11/27/19	22:05	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	22:05	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	22:05	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	11/27/19	22:05	LA	444242
4,4'-DDE	SW8081B	10	1.9	20	16.3	J	ug/Kg	11/27/19	22:05	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Dieldrin	SW8081B	10	1.5	20	3.54	J	ug/Kg	11/27/19	22:05	LA	444242
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	11/27/19	22:05	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	22:05	LA	444242
4,4'-DDT	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	11/27/19	22:05	LA	444242
Chlordane	SW8081B	10	21	200	ND		ug/Kg	11/27/19	22:05	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	22:05	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		69.2		%	11/27/19	22:05	LA	444242
DCBP (S)	SW8081B		38 - 135		70.4		%	11/27/19	22:05	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B10-2	Lab Sample ID:	1911272-010A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:44		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.85	2.0	3.03	x	mg/Kg	12/03/19	13:42	mk	444241
TPH as Motor Oil	SW8015B	1	3.2	10	12.2		mg/Kg	12/03/19	13:42	mk	444241
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		63.5		%	12/03/19	13:42	mk	444241

NOTE: x-not typical of Diesel ref. std: peaks within Diesel range quantified as diesel



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-1	Lab Sample ID:	1911272-011A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 7:23		
SDG:			

Prep Method:	7471BP	Prep Batch Date/Time:	11/27/19 9:00:00AM
Prep Batch ID:	1118571	Prep Analyst:	IRNAZ

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Mercury	SW7471B	1	0.077	0.46	ND		mg/Kg	11/27/19	12:46	BJAY	444214



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-1	Lab Sample ID:	1911272-011A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 7:23		
SDG:			

Prep Method: 3050B	Prep Batch Date/Time: 11/27/19 10:30:00AM
Prep Batch ID: 1118572	Prep Analyst: PPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Antimony	SW6010B	1	0.047	4.72	ND		mg/Kg	11/27/19	16:47	PPATEL	444235
Arsenic	SW6010B	1	0.14	1.23	5.16		mg/Kg	11/27/19	16:47	PPATEL	444235
Barium	SW6010B	1	0.052	4.72	186		mg/Kg	11/27/19	16:47	PPATEL	444235
Beryllium	SW6010B	1	0.052	4.72	ND		mg/Kg	11/27/19	16:47	PPATEL	444235
Cadmium	SW6010B	1	0.094	4.72	ND		mg/Kg	11/27/19	16:47	PPATEL	444235
Chromium	SW6010B	1	0.071	4.72	41.4		mg/Kg	11/27/19	16:47	PPATEL	444235
Cobalt	SW6010B	1	0.066	4.72	10.1		mg/Kg	11/27/19	16:47	PPATEL	444235
Copper	SW6010B	1	0.19	4.72	28.0		mg/Kg	11/27/19	16:47	PPATEL	444235
Lead	SW6010B	1	0.094	2.83	11.3		mg/Kg	11/27/19	16:47	PPATEL	444235
Molybdenum	SW6010B	1	0.047	4.72	ND		mg/Kg	11/27/19	16:47	PPATEL	444235
Nickel	SW6010B	1	0.47	4.72	44.4		mg/Kg	11/27/19	16:47	PPATEL	444235
Selenium	SW6010B	1	0.21	4.72	ND		mg/Kg	11/27/19	16:47	PPATEL	444235
Silver	SW6010B	1	0.14	4.72	ND		mg/Kg	11/27/19	16:47	PPATEL	444235
Thallium	SW6010B	1	0.52	4.72	ND		mg/Kg	11/27/19	16:47	PPATEL	444235
Vanadium	SW6010B	1	0.094	4.72	42.2		mg/Kg	11/27/19	16:47	PPATEL	444235
Zinc	SW6010B	1	0.28	4.72	83.2		mg/Kg	11/27/19	16:47	PPATEL	444235



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-1	Lab Sample ID:	1911272-011A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 7:23		
SDG:			

Prep Method: 3546_OCP	Prep Batch Date/Time: 11/27/19 2:45:00PM
Prep Batch ID: 1118584	Prep Analyst: MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	22:18	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	22:18	LA	444242
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	11/27/19	22:18	LA	444242
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	22:18	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	90.8		ug/Kg	11/27/19	22:18	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	56.3		ug/Kg	11/27/19	22:18	LA	444242
4,4'-DDE	SW8081B	10	1.9	20	432		ug/Kg	11/27/19	22:18	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Dieldrin	SW8081B	10	1.5	20	337		ug/Kg	11/27/19	22:18	LA	444242
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	11/27/19	22:18	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	43.7		ug/Kg	11/27/19	22:18	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	22:18	LA	444242
4,4'-DDT	SW8081B	10	1.3	20	568		ug/Kg	11/27/19	22:18	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	11/27/19	22:18	LA	444242
Chlordane	SW8081B	10	21	200	649		ug/Kg	11/27/19	22:18	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	22:18	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		92.3		%	11/27/19	22:18	LA	444242
DCBP (S)	SW8081B		38 - 135		94.0		%	11/27/19	22:18	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-1	Lab Sample ID:	1911272-011A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 7:23		
SDG:			

Prep Method:	WET/3510C	Prep Batch Date/Time:	12/24/19 11:36:00AM
Prep Batch ID:	1119133	Prep Analyst:	LIMBAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlordane (STLC)	SW8081A	1	1.3	2.5	ND		ug/L	12/24/19	15:14	LA	444766
			Acceptance Limits								
TCMX (S)	SW8081A		44 - 125		83.0		%	12/24/19	15:14	LA	444766
DCBP (S)	SW8081A		44 - 124		91.0		%	12/24/19	15:14	LA	444766



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-1	Lab Sample ID:	1911272-011A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 7:23		
SDG:			

Prep Method:	1311/3510C	Prep Batch Date/Time:	1/3/20 1:37:00PM
Prep Batch ID:	1119321	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Chlordane (TCLP)	SW8081A	1	0.0013	0.0025	ND		mg/L	01/03/20	17:37	LA	444928
Acceptance Limits											
TCMX (S)	SW8081A		44 - 125		63.4		%	01/03/20	17:37	LA	444928
DCBP (S)	SW8081A		44 - 124		74.3		%	01/03/20	17:37	LA	444928



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-1	Lab Sample ID:	1911272-011A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 7:23		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.85	2.0	4.60	x	mg/Kg	11/28/19	1:29	MK	444241
TPH as Motor Oil	SW8015B	1	3.2	10	19.7		mg/Kg	11/28/19	1:29	MK	444241
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		67.7		%	11/28/19	1:29	MK	444241

NOTE: x-Diesel value the result of overlap of Oil range into Diesel range



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B12-2	Lab Sample ID:	1911272-012A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:13		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	11/27/19 2:45:00PM
Prep Batch ID:	1118584	Prep Analyst:	MSAT

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	11/27/19	22:31	LA	444242
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	11/27/19	22:31	LA	444242
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	11/27/19	22:31	LA	444242
delta-BHC	SW8081B	10	1.6	20	10.1	J	ug/Kg	11/27/19	22:31	LA	444242
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	11/27/19	22:31	LA	444242
gamma-Chlordane	SW8081B	10	1.6	20	3.26	J	ug/Kg	11/27/19	22:31	LA	444242
alpha-Chlordane	SW8081B	10	1.7	20	2.92	J	ug/Kg	11/27/19	22:31	LA	444242
4,4'-DDE	SW8081B	10	1.9	20	22.2		ug/Kg	11/27/19	22:31	LA	444242
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Dieldrin	SW8081B	10	1.5	20	21.4		ug/Kg	11/27/19	22:31	LA	444242
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	11/27/19	22:31	LA	444242
4,4'-DDD	SW8081B	10	5.7	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	11/27/19	22:31	LA	444242
4,4'-DDT	SW8081B	10	1.3	20	13.1	J	ug/Kg	11/27/19	22:31	LA	444242
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	11/27/19	22:31	LA	444242
Chlordane	SW8081B	10	21	200	31.0	J	ug/Kg	11/27/19	22:31	LA	444242
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	11/27/19	22:31	LA	444242
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		87.4		%	11/27/19	22:31	LA	444242
DCBP (S)	SW8081B		38 - 135		91.0		%	11/27/19	22:31	LA	444242

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B12-2	Lab Sample ID:	1911272-012A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	11/25/19 / 14:13		
SDG:			

Prep Method:	3546_TPH	Prep Batch Date/Time:	11/26/19 7:06:00PM
Prep Batch ID:	1118567	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.85	2.0	ND		mg/Kg	11/28/19	1:52	MK	444241
TPH as Motor Oil	SW8015B	1	3.2	10	12.9		mg/Kg	11/28/19	1:52	MK	444241
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		64.9		%	11/28/19	1:52	MK	444241



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-GW	Lab Sample ID:	1911272-013A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 7:47		
SDG:			

Prep Method:	3510_TPH	Prep Batch Date/Time:	11/26/19 1:12:00PM
Prep Batch ID:	1118539	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.041	0.11	0.222	x	mg/L	11/27/19	0:31	MK	444237
TPH as Motor Oil	SW8015B	1	0.12	0.44	ND		mg/L	11/27/19	0:31	MK	444237
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		67.5		%	11/27/19	0:31	MK	444237

NOTE: x-not typical of Diesel ref. std: peaks within Diesel range quantified as diesel



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-GW	Lab Sample ID:	1911272-013B
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 7:47		
SDG:			

Prep Method: 5030VOC	Prep Batch Date/Time: 11/26/19 9:14:00AM
Prep Batch ID: 1118550	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1.17	0.31	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Chloromethane	SW8260B	1.17	0.20	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Vinyl Chloride	SW8260B	1.17	0.24	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Bromomethane	SW8260B	1.17	0.25	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Chloroethane	SW8260B	1.17	0.13	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Trichlorofluoromethane	SW8260B	1.17	0.22	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,1-Dichloroethene	SW8260B	1.17	0.17	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Freon 113	SW8260B	1.17	0.40	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Methylene Chloride	SW8260B	1.17	0.15	1.2	ND		ug/L	11/26/19	16:14	BP	444199
trans-1,2-Dichloroethene	SW8260B	1.17	0.19	0.59	ND		ug/L	11/26/19	16:14	BP	444199
MTBE	SW8260B	1.17	0.090	0.59	2.8		ug/L	11/26/19	16:14	BP	444199
tert-Butanol	SW8260B	1.17	3.4	5.9	ND		ug/L	11/26/19	16:14	BP	444199
DIPE	SW8260B	1.17	0.14	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,1-Dichloroethane	SW8260B	1.17	0.14	0.59	ND		ug/L	11/26/19	16:14	BP	444199
ETBE	SW8260B	1.17	0.075	0.59	ND		ug/L	11/26/19	16:14	BP	444199
cis-1,2-Dichloroethene	SW8260B	1.17	0.18	0.59	ND		ug/L	11/26/19	16:14	BP	444199
2,2-Dichloropropane	SW8260B	1.17	0.11	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Bromochloromethane	SW8260B	1.17	0.17	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Chloroform	SW8260B	1.17	0.14	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Carbon Tetrachloride	SW8260B	1.17	0.18	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,1,1-Trichloroethane	SW8260B	1.17	0.19	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,1-Dichloropropene	SW8260B	1.17	0.22	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Benzene	SW8260B	1.17	0.076	0.59	0.082	J	ug/L	11/26/19	16:14	BP	444199
TAME	SW8260B	1.17	0.084	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,2-Dichloroethane	SW8260B	1.17	0.13	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Trichloroethylene	SW8260B	1.17	0.17	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Dibromomethane	SW8260B	1.17	0.13	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,2-Dichloropropane	SW8260B	1.17	0.10	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Bromodichloromethane	SW8260B	1.17	0.089	0.59	ND		ug/L	11/26/19	16:14	BP	444199
cis-1,3-Dichloropropene	SW8260B	1.17	0.091	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Toluene	SW8260B	1.17	0.17	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Tetrachloroethylene	SW8260B	1.17	0.28	0.59	ND		ug/L	11/26/19	16:14	BP	444199
trans-1,3-Dichloropropene	SW8260B	1.17	0.25	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,1,2-Trichloroethane	SW8260B	1.17	0.089	0.59	ND		ug/L	11/26/19	16:14	BP	444199



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-GW	Lab Sample ID:	1911272-013B
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 7:47		
SDG:			

Prep Method: 5030VOC	Prep Batch Date/Time: 11/26/19 9:14:00AM
Prep Batch ID: 1118550	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dibromochloromethane	SW8260B	1.17	0.21	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,3-Dichloropropane	SW8260B	1.17	0.25	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,2-Dibromoethane	SW8260B	1.17	0.092	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Chlorobenzene	SW8260B	1.17	0.19	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Ethylbenzene	SW8260B	1.17	0.23	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,1,1,2-Tetrachloroethane	SW8260B	1.17	0.10	0.59	ND		ug/L	11/26/19	16:14	BP	444199
m,p-Xylene	SW8260B	1.17	0.46	1.2	ND		ug/L	11/26/19	16:14	BP	444199
o-Xylene	SW8260B	1.17	0.18	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Styrene	SW8260B	1.17	0.13	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Bromoform	SW8260B	1.17	0.089	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Isopropyl Benzene	SW8260B	1.17	0.25	0.59	ND		ug/L	11/26/19	16:14	BP	444199
n-Propylbenzene	SW8260B	1.17	0.35	0.59	ND		ug/L	11/26/19	16:14	BP	444199
Bromobenzene	SW8260B	1.17	0.17	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,1,2,2-Tetrachloroethane	SW8260B	1.17	0.092	0.59	ND		ug/L	11/26/19	16:14	BP	444199
2-Chlorotoluene	SW8260B	1.17	0.29	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,3,5-Trimethylbenzene	SW8260B	1.17	0.28	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,2,3-Trichloropropane	SW8260B	1.17	0.17	0.59	ND		ug/L	11/26/19	16:14	BP	444199
4-Chlorotoluene	SW8260B	1.17	0.25	0.59	ND		ug/L	11/26/19	16:14	BP	444199
tert-Butylbenzene	SW8260B	1.17	0.31	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,2,4-Trimethylbenzene	SW8260B	1.17	0.27	0.59	ND		ug/L	11/26/19	16:14	BP	444199
sec-Butyl Benzene	SW8260B	1.17	0.35	0.59	ND		ug/L	11/26/19	16:14	BP	444199
p-Isopropyltoluene	SW8260B	1.17	0.31	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,3-Dichlorobenzene	SW8260B	1.17	0.20	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,4-Dichlorobenzene	SW8260B	1.17	0.20	0.59	ND		ug/L	11/26/19	16:14	BP	444199
n-Butylbenzene	SW8260B	1.17	0.32	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,2-Dichlorobenzene	SW8260B	1.17	0.19	0.59	ND		ug/L	11/26/19	16:14	BP	444199
1,2-Dibromo-3-Chloropropane	SW8260B	1.17	0.89	2.3	ND		ug/L	11/26/19	16:14	BP	444199
Hexachlorobutadiene	SW8260B	1.17	0.72	2.3	ND		ug/L	11/26/19	16:14	BP	444199
1,2,4-Trichlorobenzene	SW8260B	1.17	1.1	2.3	ND		ug/L	11/26/19	16:14	BP	444199
Naphthalene	SW8260B	1.17	1.4	2.3	ND		ug/L	11/26/19	16:14	BP	444199
1,2,3-Trichlorobenzene	SW8260B	1.17	1.4	2.3	ND		ug/L	11/26/19	16:14	BP	444199
(S) Dibromofluoromethane	SW8260B		61.2 - 131		111		%	11/26/19	16:14	BP	444199
(S) Toluene-d8	SW8260B		75.1 - 127		92.6		%	11/26/19	16:14	BP	444199
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		99.6		%	11/26/19	16:14	BP	444199



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B11-GW	Lab Sample ID:	1911272-013B
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 7:47		
SDG:			

NOTE: Reporting limits were raised due to sediment in all VOAs.



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-GW	Lab Sample ID:	1911272-014A
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 10:41		
SDG:			

Prep Method:	3510_TPH	Prep Batch Date/Time:	11/26/19 1:12:00PM
Prep Batch ID:	1118539	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel	SW8015B	1	0.039	0.11	0.195	x	mg/L	11/27/19	0:54	MK	444237
TPH as Motor Oil	SW8015B	1	0.12	0.42	ND		mg/L	11/27/19	0:54	MK	444237
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		60.0		%	11/27/19	0:54	MK	444237

NOTE: x-not typical of Diesel ref. std: peaks within Diesel range quantified as diesel



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-GW	Lab Sample ID:	1911272-014B
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 10:41		
SDG:			

Prep Method: 5030VOC	Prep Batch Date/Time: 11/26/19 9:14:00AM
Prep Batch ID: 1118550	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dichlorodifluoromethane	SW8260B	1.11	0.29	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Chloromethane	SW8260B	1.11	0.19	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Vinyl Chloride	SW8260B	1.11	0.23	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Bromomethane	SW8260B	1.11	0.24	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Chloroethane	SW8260B	1.11	0.13	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Trichlorofluoromethane	SW8260B	1.11	0.21	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,1-Dichloroethene	SW8260B	1.11	0.16	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Freon 113	SW8260B	1.11	0.38	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Methylene Chloride	SW8260B	1.11	0.14	1.1	ND		ug/L	11/26/19	16:42	BP	444199
trans-1,2-Dichloroethene	SW8260B	1.11	0.18	0.56	ND		ug/L	11/26/19	16:42	BP	444199
MTBE	SW8260B	1.11	0.085	0.56	1.7		ug/L	11/26/19	16:42	BP	444199
tert-Butanol	SW8260B	1.11	3.3	5.6	ND		ug/L	11/26/19	16:42	BP	444199
DIPE	SW8260B	1.11	0.13	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,1-Dichloroethane	SW8260B	1.11	0.14	0.56	ND		ug/L	11/26/19	16:42	BP	444199
ETBE	SW8260B	1.11	0.071	0.56	ND		ug/L	11/26/19	16:42	BP	444199
cis-1,2-Dichloroethene	SW8260B	1.11	0.17	0.56	ND		ug/L	11/26/19	16:42	BP	444199
2,2-Dichloropropane	SW8260B	1.11	0.10	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Bromochloromethane	SW8260B	1.11	0.17	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Chloroform	SW8260B	1.11	0.14	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Carbon Tetrachloride	SW8260B	1.11	0.18	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,1,1-Trichloroethane	SW8260B	1.11	0.18	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,1-Dichloropropene	SW8260B	1.11	0.21	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Benzene	SW8260B	1.11	0.072	0.56	ND		ug/L	11/26/19	16:42	BP	444199
TAME	SW8260B	1.11	0.080	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,2-Dichloroethane	SW8260B	1.11	0.12	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Trichloroethylene	SW8260B	1.11	0.16	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Dibromomethane	SW8260B	1.11	0.12	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,2-Dichloropropane	SW8260B	1.11	0.099	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Bromodichloromethane	SW8260B	1.11	0.084	0.56	ND		ug/L	11/26/19	16:42	BP	444199
cis-1,3-Dichloropropene	SW8260B	1.11	0.087	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Toluene	SW8260B	1.11	0.16	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Tetrachloroethylene	SW8260B	1.11	0.26	0.56	ND		ug/L	11/26/19	16:42	BP	444199
trans-1,3-Dichloropropene	SW8260B	1.11	0.24	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,1,2-Trichloroethane	SW8260B	1.11	0.084	0.56	ND		ug/L	11/26/19	16:42	BP	444199



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-GW	Lab Sample ID:	1911272-014B
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 10:41		
SDG:			

Prep Method: 5030VOC	Prep Batch Date/Time: 11/26/19 9:14:00AM
Prep Batch ID: 1118550	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dibromochloromethane	SW8260B	1.11	0.20	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,3-Dichloropropane	SW8260B	1.11	0.24	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,2-Dibromoethane	SW8260B	1.11	0.088	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Chlorobenzene	SW8260B	1.11	0.18	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Ethylbenzene	SW8260B	1.11	0.22	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,1,1,2-Tetrachloroethane	SW8260B	1.11	0.097	0.56	ND		ug/L	11/26/19	16:42	BP	444199
m,p-Xylene	SW8260B	1.11	0.44	1.1	ND		ug/L	11/26/19	16:42	BP	444199
o-Xylene	SW8260B	1.11	0.17	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Styrene	SW8260B	1.11	0.12	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Bromoform	SW8260B	1.11	0.084	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Isopropyl Benzene	SW8260B	1.11	0.24	0.56	ND		ug/L	11/26/19	16:42	BP	444199
n-Propylbenzene	SW8260B	1.11	0.33	0.56	ND		ug/L	11/26/19	16:42	BP	444199
Bromobenzene	SW8260B	1.11	0.17	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,1,2,2-Tetrachloroethane	SW8260B	1.11	0.088	0.56	ND		ug/L	11/26/19	16:42	BP	444199
2-Chlorotoluene	SW8260B	1.11	0.28	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,3,5-Trimethylbenzene	SW8260B	1.11	0.27	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,2,3-Trichloropropane	SW8260B	1.11	0.16	0.56	ND		ug/L	11/26/19	16:42	BP	444199
4-Chlorotoluene	SW8260B	1.11	0.24	0.56	ND		ug/L	11/26/19	16:42	BP	444199
tert-Butylbenzene	SW8260B	1.11	0.29	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,2,4-Trimethylbenzene	SW8260B	1.11	0.26	0.56	ND		ug/L	11/26/19	16:42	BP	444199
sec-Butyl Benzene	SW8260B	1.11	0.33	0.56	ND		ug/L	11/26/19	16:42	BP	444199
p-Isopropyltoluene	SW8260B	1.11	0.30	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,3-Dichlorobenzene	SW8260B	1.11	0.19	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,4-Dichlorobenzene	SW8260B	1.11	0.19	0.56	ND		ug/L	11/26/19	16:42	BP	444199
n-Butylbenzene	SW8260B	1.11	0.30	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,2-Dichlorobenzene	SW8260B	1.11	0.18	0.56	ND		ug/L	11/26/19	16:42	BP	444199
1,2-Dibromo-3-Chloropropane	SW8260B	1.11	0.84	2.2	ND		ug/L	11/26/19	16:42	BP	444199
Hexachlorobutadiene	SW8260B	1.11	0.68	2.2	ND		ug/L	11/26/19	16:42	BP	444199
1,2,4-Trichlorobenzene	SW8260B	1.11	1.0	2.2	ND		ug/L	11/26/19	16:42	BP	444199
Naphthalene	SW8260B	1.11	1.3	2.2	ND		ug/L	11/26/19	16:42	BP	444199
1,2,3-Trichlorobenzene	SW8260B	1.11	1.3	2.2	ND		ug/L	11/26/19	16:42	BP	444199
(S) Dibromofluoromethane	SW8260B		61.2 - 131		109		%	11/26/19	16:42	BP	444199
(S) Toluene-d8	SW8260B		75.1 - 127		92.2		%	11/26/19	16:42	BP	444199
(S) 4-Bromofluorobenzene	SW8260B		64.1 - 120		97.5		%	11/26/19	16:42	BP	444199



SAMPLE RESULTS

Report prepared for: Helen Hild
Ninyo & Moore

Date/Time Received: 11/26/19, 2:00 pm
Date Reported: 12/26/19

Client Sample ID:	B5-GW	Lab Sample ID:	1911272-014B
Project Name/Location:	2535 and 2519 Pulgas Ave, East Palo Alto	Sample Matrix:	Groundwater
Project Number:			
Date/Time Sampled:	11/25/19 / 10:41		
SDG:			

NOTE: Reporting limits were raised due to sediment in all VOAs.



MB Summary Report

Work Order:	1911272	Prep Method:	3510_TPH	Prep Date:	11/26/19	Prep Batch:	1118539
Matrix:	Water	Analytical Method:	SW8015B	Analyzed Date:	11/26/2019	Analytical Batch:	444237
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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TPH as Diesel	0.037	0.10	ND
TPH as Motor Oil	0.11	0.40	ND
Pentacosane (S)			106

Work Order:	1911272	Prep Method:	5030VOC	Prep Date:	11/26/19	Prep Batch:	1118550
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	11/26/2019	Analytical Batch:	444199
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Dichlorodifluoromethane	0.26	0.50	ND
Chloromethane	0.17	0.50	ND
Vinyl Chloride	0.21	0.50	ND
Bromomethane	0.21	0.50	ND
Chloroethane	0.11	0.50	ND
Trichlorofluoromethane	0.19	0.50	ND
1,1-Dichloroethene	0.14	0.50	ND
Freon 113	0.34	0.50	ND
Methylene Chloride	0.13	1.0	ND
trans-1,2-Dichloroethene	0.16	0.50	ND
MTBE	0.077	0.50	ND
tert-Butanol	2.9	5.0	ND
DIPE	0.12	0.50	ND
1,1-Dichloroethane	0.12	0.50	ND
ETBE	0.064	0.50	ND
cis-1,2-Dichloroethene	0.15	0.50	ND
2,2-Dichloropropane	0.094	0.50	ND
Bromochloromethane	0.15	0.50	ND
Chloroform	0.12	0.50	ND
Carbon Tetrachloride	0.16	0.50	ND
1,1,1-Trichloroethane	0.16	0.50	ND
1,1-Dichloropropene	0.19	0.50	ND
Benzene	0.065	0.50	ND
TAME	0.072	0.50	ND
1,2-Dichloroethane	0.11	0.50	ND
Trichloroethylene	0.15	0.50	ND
Dibromomethane	0.11	0.50	ND
1,2-Dichloropropane	0.089	0.50	ND
Bromodichloromethane	0.076	0.50	ND



MB Summary Report

Work Order:	1911272	Prep Method:	5030VOC	Prep Date:	11/26/19	Prep Batch:	1118550
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	11/26/2019	Analytical Batch:	444199
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
cis-1,3-Dichloropropene	0.078	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.24	0.50	ND	
trans-1,3-Dichloropropene	0.22	0.50	ND	
1,1,2-Trichloroethane	0.076	0.50	ND	
Dibromochloromethane	0.18	0.50	ND	
1,3-Dichloropropane	0.22	0.50	ND	
1,2-Dibromoethane	0.079	0.50	ND	
Chlorobenzene	0.16	0.50	ND	
Ethylbenzene	0.20	0.50	ND	
1,1,1,2-Tetrachloroethane	0.087	0.50	ND	
m,p-Xylene	0.39	1.0	ND	
o-Xylene	0.15	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.076	0.50	ND	
Isopropyl Benzene	0.22	0.50	ND	
n-Propylbenzene	0.30	0.50	ND	
Bromobenzene	0.15	0.50	ND	
1,1,2,2-Tetrachloroethane	0.079	0.50	ND	
2-Chlorotoluene	0.25	0.50	ND	
1,3,5-Trimethylbenzene	0.24	0.50	ND	
1,2,3-Trichloropropane	0.15	0.50	ND	
4-Chlorotoluene	0.22	0.50	ND	
tert-Butylbenzene	0.26	0.50	ND	
1,2,4-Trimethylbenzene	0.23	0.50	ND	
sec-Butyl Benzene	0.30	0.50	ND	
p-Isopropyltoluene	0.27	0.50	ND	
1,3-Dichlorobenzene	0.17	0.50	ND	
1,4-Dichlorobenzene	0.18	0.50	ND	
n-Butylbenzene	0.27	0.50	ND	
1,2-Dichlorobenzene	0.16	0.50	ND	
1,2-Dibromo-3-Chloropropane	0.76	2.0	ND	
Hexachlorobutadiene	0.62	2.0	ND	
1,2,4-Trichlorobenzene	0.93	2.0	ND	
Naphthalene	1.2	2.0	ND	
1,2,3-Trichlorobenzene	1.2	2.0	ND	
(S) Dibromofluoromethane			104	
(S) Toluene-d8			90.6	
(S) 4-Bromofluorobenzene			95.6	



MB Summary Report

Work Order:	1911272	Prep Method:	3546_TPH	Prep Date:	11/26/19	Prep Batch:	1118567
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/27/2019	Analytical Batch:	444221
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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TPH as Diesel	34	80	ND	
TPH as Motor Oil	130	400	ND	
Pentacosane (S)			110	

Work Order:	1911272	Prep Method:	7471BP	Prep Date:	11/27/19	Prep Batch:	1118571
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	11/27/2019	Analytical Batch:	444214
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Mercury	0.082	0.49	ND	
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Work Order:	1911272	Prep Method:	3050B	Prep Date:	11/27/19	Prep Batch:	1118572
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	11/27/2019	Analytical Batch:	444235
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Antimony	0.049	4.90	0.14	
Arsenic	0.15	1.27	ND	
Barium	0.054	4.90	0.12	
Beryllium	0.054	4.90	ND	
Cadmium	0.098	4.90	ND	
Chromium	0.074	4.90	0.10	
Cobalt	0.069	4.90	ND	
Copper	0.20	4.90	0.60	
Lead	0.098	1.27	ND	
Molybdenum	0.049	4.90	0.098	
Nickel	0.49	4.90	ND	
Selenium	0.22	4.90	0.41	
Silver	0.15	4.90	ND	
Thallium	0.54	4.90	ND	
Vanadium	0.098	4.90	0.11	
Zinc	0.29	4.90	ND	



MB Summary Report

Work Order:	1911272	Prep Method:	3546_OCP	Prep Date:	11/27/19	Prep Batch:	1118584
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	11/27/2019	Analytical Batch:	444242
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4'-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4'-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4'-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			88.0	
DCBP (S)			93.2	

Work Order:	1911272	Prep Method:	WET/3010B	Prep Date:	12/20/19	Prep Batch:	1119050
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	12/20/2019	Analytical Batch:	444727
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Chromium (STLC)	0.010	0.20	0.063	



MB Summary Report

Work Order:	1911272	Prep Method:	WET/3510C	Prep Date:	12/24/19	Prep Batch:	1119133
Matrix:	Soil	Analytical Method:	SW8081A	Analyzed Date:	12/24/2019	Analytical Batch:	444766
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Chlordane (STLC)

1.3

2.5

ND

TCMX (S)

83.2

DCBP (S)

97.4

Work Order:	1911272	Prep Method:	1311/3510C	Prep Date:	01/03/20	Prep Batch:	1119321
Matrix:	Soil	Analytical Method:	SW8081A	Analyzed Date:	1/3/2020	Analytical Batch:	444928
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
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Chlordane (TCLP)

0.0013

0.0025

ND

TCMX (S)

74.2

DCBP (S)

100.



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1911272	Prep Method:	3510_TPH	Prep Date:	11/26/19	Prep Batch:	1118539
Matrix:	Water	Analytical Method:	SW8015B	Analyzed Date:	11/26/2019	Analytical Batch:	444237
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.037	0.10	ND	1.0	103	83.5	20.9	52 - 115	30	
Pentacosane (S)				200	116	97.5		59 - 129		

Work Order:	1911272	Prep Method:	5030VOC	Prep Date:	11/26/19	Prep Batch:	1118550
Matrix:	Water	Analytical Method:	SW8260B	Analyzed Date:	11/26/2019	Analytical Batch:	444199
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.9	112	107	4.60	61.4 - 129	30	
Benzene	0.16	0.50	ND	17.9	112	110	1.51	66.9 - 140	30	
Trichloroethylene	0.15	0.50	ND	17.9	103	102	1.63	69.3 - 144	30	
Toluene	0.14	0.50	ND	17.9	110	107	3.11	76.6 - 123	30	
Chlorobenzene	0.16	0.50	ND	17.9	103	97.1	6.16	73.9 - 137	30	
(S) Dibromofluoromethane				17.9	101	105		61.2 - 131		
(S) Toluene-d8				17.9	104	100		75.1 - 127		
(S) 4-Bromofluorobenzene				17.9	105	98.2		64.1 - 120		

Work Order:	1911272	Prep Method:	3546_TPH	Prep Date:	11/26/19	Prep Batch:	1118567
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	11/27/2019	Analytical Batch:	444221
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.85	2.0	ND	25.0	61.0	66.1	8.20	52 - 115	30	
Pentacosane (S)				200	68.0	74.8		59 - 129		

Work Order:	1911272	Prep Method:	7471BP	Prep Date:	11/27/19	Prep Batch:	1118571
Matrix:	Soil	Analytical Method:	SW7471B	Analyzed Date:	11/27/2019	Analytical Batch:	444214
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.044	0.48	ND	1.19	106	107	5.41	80 - 120	30	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1911272	Prep Method:	3050B	Prep Date:	11/27/19	Prep Batch:	1118572
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	11/27/2019	Analytical Batch:	444235
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.049	4.90	0.14	50	92.9	94.0	1.07	80 - 120	30	
Arsenic	0.15	1.27	ND	50	93.0	93.6	0.643	80 - 120	30	
Barium	0.054	4.90	0.12	50	96.5	97.2	0.619	80 - 120	30	
Beryllium	0.054	4.90	ND	50	94.7	94.4	0.423	80 - 120	30	
Cadmium	0.098	4.90	ND	50	92.4	93.5	1.29	80 - 120	30	
Chromium	0.074	4.90	0.10	50	96.4	97.5	1.24	80 - 120	30	
Cobalt	0.069	4.90	ND	50	94.6	95.6	1.05	80 - 120	30	
Copper	0.20	4.90	0.60	50	99.0	99.7	0.805	80 - 120	30	
Lead	0.098	2.94	ND	50	95.0	97.1	2.29	80 - 120	30	
Molybdenum	0.049	4.90	0.098	50	97.0	98.2	1.23	80 - 120	30	
Nickel	0.49	4.90	ND	50	93.5	95.2	1.91	80 - 120	30	
Selenium	0.22	4.90	0.41	50	89.0	90.4	1.56	80 - 120	30	
Silver	0.15	4.90	ND	50	96.4	94.3	2.10	80 - 120	30	
Thallium	0.20	4.90	ND	50	92.3	93.3	1.08	80 - 120	30	
Vanadium	0.098	4.90	0.11	50	98.3	99.4	1.01	80 - 120	30	
Zinc	0.29	4.90	ND	50	91.1	93.0	1.95	80 - 120	30	

Work Order:	1911272	Prep Method:	3546_OCP	Prep Date:	11/27/19	Prep Batch:	1118584
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	11/27/2019	Analytical Batch:	444242
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	92.9	88.0	5.26	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	94.4	90.2	4.60	40 - 130	30	
Aldrin	0.20	2.0	ND	40	90.4	85.7	5.39	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	87.9	83.6	5.25	60 - 130	30	
Endrin	0.19	2.0	ND	40	97.2	92.9	4.47	55 - 135	30	
4,4'-DDT	0.13	2.0	ND	40	99.4	94.1	5.42	45 - 140	30	
TCMX (S)				100	90.6	84.4		48 - 125		
DCBP (S)				100	93.2	87.5		38 - 135		

Work Order:	1911272	Prep Method:	WET/3010B	Prep Date:	12/20/19	Prep Batch:	1119050
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	12/20/2019	Analytical Batch:	444727
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Chromium (STLC)	0.010	0.20	0.063	10	92.6	89.9	2.96	80 - 120	20	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1911272	Prep Method:	WET/3510C	Prep Date:	12/24/19	Prep Batch:	1119133
Matrix:	Soil	Analytical Method:	SW8081A	Analyzed Date:	12/24/2019	Analytical Batch:	444766
Units:	ug/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Chlordane (STLC)	1.3	2.5		25.0	90.1	90.7	0.885	25 - 135	30	
TCMX (S)				100	78.7	73.6		44 - 125		
DCBP (S)				100	98.5	101		44 - 124		

Work Order:	1911272	Prep Method:	1311/3510C	Prep Date:	01/03/20	Prep Batch:	1119321
Matrix:	Soil	Analytical Method:	SW8081A	Analyzed Date:	1/3/2020	Analytical Batch:	444928
Units:	mg/L						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (TCLP)	0.000019	0.00020		0.00200	89.0	93.4	4.93	25 - 135	30	
Heptachlor (TCLP)	0.00010	0.00020		0.00200	91.2	94.9	4.30	40 - 130	30	
Aldrin (TCLP)	0.000008	0.00020		0.00200	87.7	90.3	3.37	25 - 140	30	
Dieldrin (TCLP)	0.00031	0.00020		0.00200	94.6	97.5	3.13	60 - 130	30	
Endrin (TCLP)	0.000034	0.00020		0.00200	106	110	3.69	55 - 135	30	
4,4-DDT (TCLP)	0.000051	0.00020		0.00200	107	111	3.20	45 - 140	30	
TCMX (S)				100	87.0	86.7		44 - 125		
DCBP (S)				100	111	110		44 - 124		



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1911272	Prep Method:	3546_TPH	Prep Date:	11/26/19	Prep Batch:	1118567
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	12/2/2019	Analytical Batch:	444241
Spiked Sample:	1911272-007A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.850	2.00	6.66	25.0	57.0	56.7	29.1	52 - 115	30	
Pentacosane (S)				200	61.0	60.5		59 - 129		

Work Order:	1911272	Prep Method:	3050B	Prep Date:	11/27/19	Prep Batch:	1118572
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	11/27/2019	Analytical Batch:	444235
Spiked Sample:	1911272-001A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.048	4.81	ND	48	77.6	76.4	1.50	30.7 - 130	30	
Arsenic	0.14	1.25	4.26	48	94.1	92.7	1.37	71.0 - 121	30	
Barium	0.053	4.81	124	48	71.7	83.0	4.15	70.2 - 130	30	
Beryllium	0.053	4.81	ND	48	91.7	91.2	0.433	73.3 - 115	30	
Cadmium	0.096	4.81	ND	48	93.5	91.1	2.59	80.0 - 110	30	
Chromium	0.072	4.81	51.5	48	76.8	70.8	2.75	76.0 - 116	30	S
Cobalt	0.067	4.81	9.89	48	81.9	80.3	1.37	57.4 - 122	30	
Copper	0.19	4.81	35.9	48	102	98.6	1.82	74.8 - 119	30	
Lead	0.096	2.88	33.0	48	83.9	84.2	0.653	57.9 - 118	30	
Molybdenum	0.048	4.81	ND	48	91.0	89.2	1.95	62.9 - 123	30	
Nickel	0.48	4.81	49.9	48	75.6	67.6	3.98	61.5 - 122	30	
Selenium	0.21	4.81	ND	48	87.4	84.4	3.98	62.0 - 111	30	
Silver	0.14	4.81	ND	48	102	99.5	2.45	81.1 - 109	30	
Thallium	0.19	4.81	ND	48	74.3	73.5	1.73	39.2 - 125	30	
Vanadium	0.096	4.81	40.5	48	99.6	90.3	4.68	65.8 - 122	30	
Zinc	0.29	4.81	49.3	48	81.5	74.4	3.31	59.9 - 122	30	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1911272	Prep Method:	3546_OCP	Prep Date:	11/27/19	Prep Batch:	1118584
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	11/27/2019	Analytical Batch:	444242
Spiked Sample:	1911272-007A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	1.59	20.0	ND	40	41.4	47.6	13.5	25 - 135	30	
Heptachlor	1.05	20.0	ND	40	90.6	96.5	6.42	40 - 130	30	
Aldrin	1.95	20.0	ND	40	71.5	50.5	34.4	25 - 140	30	R
Dieldrin	1.48	20.0	2960	40	0	0	9.17	60 - 130	30	NR
Endrin	1.88	20.0	23.2	40	81.0	83.8	1.96	55 - 135	30	
4,4'-DDT	1.29	20.0	1970	40	0	0	0.375	45 - 140	30	NR
TCMX (S)				100	84.3	88.7		48 - 125		
DCBP (S)				100	79.2	87.7		38 - 135		

Work Order:	1911272	Prep Method:	WET/3010B	Prep Date:	12/20/19	Prep Batch:	1119050
Matrix:	Soil	Analytical Method:	SW6010B	Analyzed Date:	12/20/2019	Analytical Batch:	444727
Spiked Sample:	1911272-001A						
Units:	mg/L						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Chromium (STLC)	0.0100	0.200	0.986	10	91.3	93.3	1.96	75 - 125	20	



Duplicate QC Summary Report

Work Order:	1911272	Prep Method:	7471BP	Prep Date:	11/27/2019	Prep Batch:	1118571
Matrix:		Analytical Method:	SW7471B	Analyzed Date:	11/27/19	Analytical Batch:	444214
Units:						Lab Sample ID:	1911272-011A-DUP-1118571

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Mercury	0.044	0.47	0.045	ND	12.80	



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:

B - Indicates when the analyte is found in the associated method or preparation blank D - Surrogate is not recoverable due to the necessary dilution of the sample 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. H- Indicates that the recommended holding time for the analyte or compound has been exceeded J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative NA - Not Analyzed N/A - Not Applicable ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL. 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 R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts 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 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.



Sample Receipt Checklist

Client Name: Ninyo & Moore

Project Name: 2535 and 2519 Pulgas Ave, East Palo Alto

Work Order No.: 1911272

Date and Time Received: 11/26/2019 2:00:00PM

Received By: Helena Ueng

Physically Logged By: Helena Ueng

Checklist Completed By: Helena Ueng

Carrier Name: FedEx SameDay

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?	<u>Yes</u>	Temperature: 6.0 °C
Water-VOA vials have zero headspace?	<u>Yes</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: N/A	pH Adjusted by: N/A	

Comments:



Login Summary Report

Client ID: TL5144 Ninyo & Moore
Project Name: 2535 and 2519 Pulgas Ave, East Palo Alto
Project # :
Report Due Date: 1/6/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/26/2019
Time Received: 2:00 pm

Comments:

Work Order # : 1911272

<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>
1911272-001A	B1-1	11/25/19 13:30	Soil	05/23/20			Hg_S_7471B Met_S_CAM17STLC TPHDO_S_8015(Mod) Pest_S_8081OCP Met_S_6010B CAM17	
1911272-002A	B2-2	11/25/19 13:10	Soil	05/23/20			Pest_S_8081OCP TPHDO_S_8015(Mod)	
1911272-003A	B3-1	11/25/19 12:44	Soil	05/23/20			Hg_S_7471B TPHDO_S_8015(Mod) Pest_S_8081OCP Met_S_6010B CAM17	
1911272-004A	B4-2	11/25/19 13:51	Soil	05/23/20			Pest_S_8081OCP TPHDO_S_8015(Mod)	
1911272-005A	B5-1	11/25/19 10:10	Soil	05/23/20			Hg_S_7471B TPHDO_S_8015(Mod) Pest_S_8081OCP Met_S_6010B CAM17	
1911272-006A	B6-2	11/25/19 12:09	Soil	05/23/20			Pest_S_8081OCP TPHDO_S_8015(Mod)	
1911272-007A	B7-1	11/25/19 14:37	Soil	05/23/20			Hg_S_7471B Pest_TCLP Pest_STLC TPHDO_S_8015(Mod) Pest_S_8081OCP	



Login Summary Report

Client ID: TL5144 Ninyo & Moore
Project Name: 2535 and 2519 Pulgas Ave, East Palo Alto
Project # :
Report Due Date: 1/6/2020

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 11/26/2019
Time Received: 2:00 pm

Comments:

Work Order # : 1911272

<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>
1911272-008A	B8-2	11/25/19 14:32	Soil	05/23/20			Met_S_6010B CAM17	
1911272-009A	B9-1	11/25/19 14:23	Soil	05/23/20			Pest_S_8081OCP TPHDO_S_8015(Mod)	
1911272-010A	B10-2	11/25/19 14:44	Soil	05/23/20			Hg_S_7471B TPHDO_S_8015(Mod) Pest_S_8081OCP Met_S_6010B CAM17	
1911272-011A	B11-1	11/25/19 7:23	Soil	05/23/20			Pest_S_8081OCP TPHDO_S_8015(Mod)	
1911272-012A	B12-2	11/25/19 14:13	Soil	05/23/20			Hg_S_7471B Pest_TCLP Pest_STLC TPHDO_S_8015(Mod) Pest_S_8081OCP Met_S_6010B CAM17	
1911272-013A	B11-GW	11/25/19 7:47	Water	05/23/20			Pest_S_8081OCP TPHDO_S_8015(Mod) TPHDO_W_8015B(M)	
Sample Note:	**Extraction Hold time up M.12/2/19**							
1911272-013B	B11-GW	11/25/19 7:47	Water	05/23/20			VOC_W_8260B	
Sample Note:								
1911272-014A	B5-GW	11/25/19 10:41	Water	01/09/20			TPHDO_W_8015B(M)	
1911272-014B	B5-GW	11/25/19 10:41	Water	01/09/20			VOC_W_8260B	



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

RESET

CHAIN OF CUSTODY

LAB WORK ORDER NO

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

1911272

Company Name: Ninyo & Moore			Location of Sampling: 2535 and 2519 Pulgas Ave, East Palo Alto		
Address: 2020 Challenger Drive, Suite 103			Purpose:		
City: Alameda	State: California	Zip Code: 94501	Special Instructions / Comments:		
Telephone: (510) 343 3000 FAX: (510) 343 3001					
REPORT TO: Helen Hild		SAMPLER: Helen Hild	P.O. #: 403627002	EMAIL: hhild@ninyoandmoore.com	

TURNAROUND TIME:

- ☐ 10 Work Days ☒ 3 Work Days ☐ Noon - Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☐ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:

- ☐ Storm Water ☐ Air
☐ Waste Water ☐ Other
☒ Ground Water
☒ Soil

REPORT FORMAT:

- ☐ QC Level IV
☐ EDF
☒ Excel / EDD

TPHd/mo 8015
OCPs 808
Title 22 Metals 7008

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TPHd/mo	OCPs	Title 22 Metals	REMARKS
001A	B1-1	11/25 1330	soil	1	9oz	✓	✓	✓	
002A	B2-2	11/25 1310	soil	1	9oz	✓	✓		
003A	B3-1	11/25 1244	soil	1	9oz	✓	✓	✓	
004A	B4-2	11/25 1351	soil	1	9oz	✓	✓		
005A	B5-1	11/25 10:10	soil	1	9oz	✓	✓	✓	
006A	B6-2	11/25 12:09	soil	1	9oz	✓	✓		
007A	B7-1	11/25 1437	soil	1	9oz	✓	✓	✓	
008A	B8-2	11/25 1432	soil	1	9oz	✓	✓		
009A	B9-1	11/25 1423	soil	1	9oz	✓	✓	✓	
010A	B10-2	11/25 1444	soil	1	9oz	✓	✓		

1 Relinquished By:	Print: Helen Hild	Date: 11/26/19	Time: 0845	Received By:	Print: Angela J. Rock	Date: 11/26/19	Time: 12:45pm
2 Relinquished By:	Print: Angela J. Rock	Date:	Time:	Received By:	Print: Helen Hild	Date: 11/26/19	Time: 1400

Were Samples Received in Good Condition? ☒ Yes ☐ NO Samples on Ice? ☒ Yes ☐ NO Method of Shipment FedEx City 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: _____ Log In Reviewed By: _____ Date: Temp= 6° C #1 (core)



CHAIN OF CUSTODY

LAB WORK ORDER NO. _____

1911272

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

Company Name: Ninyo & Moore			Location of Sampling: 2535 and 2519 Pulgas Ave, East Palo Alto		
Address: 2020 Challenger Drive, Suite 103			Purpose:		
City: Alameda	State: California	Zip Code: 94501	Special Instructions / Comments:		
Telephone: (510) 343 3000		FAX: (510) 343 3001			
REPORT TO: Helen Hild			P.O. #: 403627002		
SAMPLER: Helen Hild			EMAIL: hhild@ninyoandmoore.com		

TURNAROUND TIME: ☐ 10 Work Days ☒ 3 Work Days ☐ Noon - Nxt Day ☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours ☐ 5 Work Days ☐ 1 Work Day ☐ Other			SAMPLE TYPE: ☐ Storm Water ☐ Air ☐ Waste Water ☐ Other ☐ Ground Water ☒ Soil			REPORT FORMAT: ☐ QC Level IV ☐ EDF ☒ Excel / EDD			1/1/mo 8015 8081 22 Metals 7000 8260B CS 8260B			ANALYSIS REQUESTED		
---	--	--	--	--	--	--	--	--	--	--	--	---------------------------	--	--

[illegible]

1	Relinquished By: 	Print: Helen Wild	Date: 11/26/19	Time: 0845	Received By: 	Print: 	Date: 	Time: 
2	Relinquished By: 	Print: Angela J. Cook	Date:	Time:	Received By: 	Print: Henry + Elecia Veng	Date: 11/26/19	Time: 1400

Were Samples Received in Good Condition? ☒ Yes ☐ NO Samples on Ice? ☒ Yes ☐ NO Method of Shipment FedEx City 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: _____ Log In Reviewed By: _____ Date: Tina / 10/1/2021

$T_{exp} = 6^\circ\text{C} \#1 (\text{corr})$



Change Order

Work Order: 1911272

Serial #: CO19-0764

Print Date: 1/6/2020

Project Name: 2535 and 2519 Pulgas Ave, East Palo Alto

Client: Ninyo & Moore

Requested By: Helen Hild

	<u>Requested Date</u>	<u>Requested Time</u>	<u>Extended Price</u>
Additional Test-STLC Cr for 001; STLC Chlordane for 007/011; STD TAT	12/18/2019	10:00:00AM	



Change Order

Work Order: 1911272

Serial #: CO19-0794

Print Date: 1/6/2020

Project Name: 2535 and 2519 Pulgas Ave, East Palo Alto

Client: Ninyo & Moore

Requested By: Helen Hild

	<u>Requested Date</u>	<u>Requested Time</u>	<u>Extended Price</u>
TCLP Chlordane for samples 007/011; STD TAT	12/30/2019		



2020 Challenger Drive, Suite 103 | Alameda, California 94501 | p. 510.343.3000

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www.ninyoandmoore.com