



Vapor Intrusion Study Report

East Adjacent Properties – Property 3
Robinson Helicopter Company
2530 and 2540 Skypark Drive
Torrance, California 90505
Investigative Order No.: R4-2020-0035

March 30, 2021

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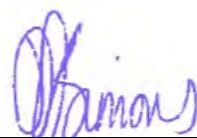
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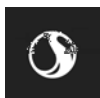
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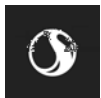
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Executive Summary

This report was prepared on behalf of Robinson Helicopter Company (Robinson) by Stantec Consulting Services Inc. (Stantec) to document vapor intrusion study ("VI Study") activities performed at a property addressed as 2530 and 2540 Skypark Drive (the Site; Figure 1), collectively referred to as "Property 3" in the Los Angeles Regional Water Quality Control Board's (LARWQCB's) Investigative Order No. R4-2020-0035, dated May 12, 2020.

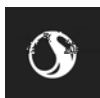
The LARWQCB has been overseeing environmental investigations at the Hi-Shear Corporation's (Hi-Shear's) facility located at 2600 Skypark Drive in Torrance, California (Site Cleanup Program [SCP] No. 0218) and at properties adjacent to the Hi-Shear facility which are identified as the East Adjacent Properties of Hi-Shear Corporation (EA Properties [SCP No. 1481]). Property 3, or the Site, is one of the EA Properties. Based on previous environmental investigations at both the Hi-Shear and EA Properties, it has been determined that volatile organic compounds (VOCs) are present in subsurface media. To further evaluate VOCs in the subsurface, the LARWQCB issued an investigative order to multiple parties, near the Hi-Shear Facility, including the Site.

The VI Study was conducted pursuant to the investigative order and was performed to evaluate whether the presence of subsurface VOCs potentially posed a vapor intrusion risk to Site workers. The VI Study scope of work included:

- Conducting a non-intrusive visual building survey;
- Collecting three outdoor ambient air samples;
- Collecting eight indoor air samples;
- Installing and sampling eight sub-slab vapor probes;
- Collecting pressure/vacuum measurements from the installed sub-slab vapor probes;
- Analyzing ambient air, indoor air, and sub-slab vapor samples for VOCs; and
- Preparing this report summarizing the VI Study procedures and findings.

Stantec compared the ambient air, indoor air, and sub-slab vapor analytical data to the following screening criteria:

- United States Environmental Protection Agency, Region 9, Regional Screening Levels (RSLs) for Indoor Air for Target Cancer Risk (TR) = $1E-06$, Target Hazard Quotient (THQ) = 1.0, and industrial land use (November 2020); and
- California Environmental Protection Agency, Department of Toxic Substances Control Human and Ecological Risk Office (HERO), Human Health Risk Assessment Note Number 3, Modified Screening Levels (SLs) for Indoor Air (June 2020) for commercial/industrial land use.

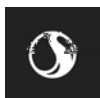


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Five (5) VOCs were reported above laboratory reporting limits in sub-slab samples. Of these, only one VOC (tetrachloroethene [PCE]) was reported above sub-slab screening levels using a conservative attenuation factor of 0.03. Thirteen (13) VOCs were reported in at least one indoor air sample. Of these, only benzene was reported above the commercial industrial screening level. Based on the data collected by Stantec, the following conclusions are made with respect to the two analytes detected in indoor air and/or sub-slab vapor samples at concentrations in excess of their respective RSLs and/or SLs:

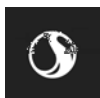
- Benzene is present in indoor and outdoor ambient air at similar concentrations. A comparison of indoor air data to ambient air data suggests the benzene concentrations observed in indoor air are not originating subsurface vapors or from the indoor building space, but rather are reflective of background ambient air conditions in the vicinity of the Site.
- PCE was reported above the SL at all eight sub-slab vapor sample locations; however, PCE was not detected in any of the indoor samples at concentrations exceeding the SL. The ratio of indoor air to sub-slab PCE concentrations ranged from 0.0015 to 0.00003 with a mean ratio of 0.0001.

Based on evaluation of the data, this study did not find evidence of a significant vapor intrusion pathway of concern. The primary constituent of potential concern (COPC) for vapor intrusion is PCE. However, PCE was not reported above the chronic SL. Stantec opines that vapor intrusion is not a pathway of exposure of concern for other COPCs detected in indoor air, and that most of these COPCs are likely the result of sources other than intrusion from the subsurface.



Abbreviations

AA	Ambient air
bgs	Below ground surface
Cal-EPA	California Environmental Protection Agency
COC	Chain-of-custody
COPCs	Constituents of potential concern
DCE	Dichloroethene
DTSC	California Department of Toxic Substances Control
EA Properties	East-Adjacent Properties of Hi-Shear Corporation
ESA	Environmental Site Assessment
ft	Feet
FREY	Frey Environmental Inc.
GER	Genesis Engineering & Redevelopment
HASP	Health and safety plan
H&P	H&P Mobile Geochemistry
HERO	DTSC Human and Ecological Risk Office
HHRA	Human health risk assessment
Hi-Shear	Hi-Shear Corporation
HVAC	Heating, ventilation and air conditioning
IA	Indoor air
in	Inch
in Hg	Inches of mercury
LARWQCB	Los Angeles Regional Water Quality Control Board
LRL	Laboratory Reporting Limit
mL	Milliliter
msl	Mean seal level
µg/m ³	Micrograms per cubic meter
µg/L	Micrograms per liter
PCE	Tetrachloroethene
RSLs	USEPA Region 9 Regional Screening Levels
Robinson	Robinson Helicopter Company
SCP	Site Cleanup Program
Stantec	Stantec Consulting Services, Inc.
SLs	Cal-EPA, DTSC, HERO, HHRA Note Number 3, Screening Levels (June 2020)
TCE	Trichloroethylene
USEPA	United States Environmental Protection Agency
VOCs	Volatile organic compounds
VI	Vapor intrusion
VP	Sub-slab vapor probe



1.0 INTRODUCTION

This report documents vapor intrusion study ("VI Study") activities performed at a property addressed as 2530 and 2540 Skypark Drive (the Site), which is also referred to as "Property 3" in the Los Angeles Regional Water Quality Control Board's (LARWQCB's) Investigative Order No. R4-2020-0035, dated May 12, 2020 (the "Order", attached in Appendix A). The completed scope of work was originally proposed in Stantec's *Vapor Intrusion Investigation Workplan*, dated August 25, 2020 (Stantec, 2020), which was approved, with modifications, in a LARWQCB letter dated October 6, 2020 (Appendix A). An extension to the original January 20, 2021 reporting deadline was subsequently approved in a LARWQCB letter dated February 24, 2021 (Appendix A).

The LARWQCB has been overseeing environmental investigations at the Hi-Shear Corporation's (Hi-Shear's) facility located at 2600 Skypark Drive in Torrance, California (Site Cleanup Program [SCP] No. 0218) and at properties adjacent to the Hi-Shear facility which are identified as the East Adjacent Properties of Hi-Shear Corporation (EA Properties [SCP No. 1481]). Property 3, or the Site, is one of the EA Properties. Based on previous environmental investigations at both the Hi-Shear and EA Properties, it has been determined that volatile organic compounds (VOCs) are widely found in subsurface media. To further evaluate VOCs in the subsurface, LARWQCB issued an investigative order to multiple parties near the Hi-Shear facility, including the Site.

1.1 PURPOSE AND OBJECTIVE

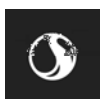
The VI Study was conducted to evaluate the vapor intrusion exposure pathway, as it relates to the migration of vapor-phase VOCs through the soil and into the indoor air environment at the Site.

The objectives of the VI Study of the Site Investigation were to provide sufficient data to 1) evaluate the contribution of VOCs from VI to indoor air, and 2) provide information to assess the risk to Site workers' health from VI.

1.2 SCOPE OF WORK

The VI Study was performed to evaluate whether the presence of subsurface VOCs potentially located within the immediate vicinity of the Site building posed a potential vapor intrusion risk to Site workers. The VI Study scope of work included:

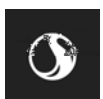
- Performing a non-intrusive visual building survey
- Collecting three outdoor ambient air samples;
- Collecting eight indoor air samples;
- Installing and sampling eight sub-slab vapor probes;
- Collecting pressure/vacuum measurements from the installed sub-slab vapor probes;



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- Analyzing ambient air, indoor air, and sub-slab vapor samples for VOCs; and
- Preparing this report summarizing the VI Study procedures and findings.



2.0 BACKGROUND

The following sections provide a brief description of the site, physical conditions (topography, geology, and hydrogeology), a summary of the environmental history, and a description of the VI Study area.

2.1 SITE DESCRIPTION AND LAND USE

The Site (a.k.a. Property 3) consists of interconnected buildings located at 2530 and 2540 Skypark Drive in Torrance, California. Property 3 is part of a larger 27-acre parcel (Assessor Identification Number 7377-006-906) owned by the City of Torrance, which includes the Hi-Shear facility, the EA Properties, and the Torrance Airport. The Site is located in a predominantly commercial and light industrial area.

Frey Environmental Inc. (Frey) reportedly prepared a *Phase I Environmental Site Assessment* (ESA) report, dated September 14, 2015 for the 24701 and 24747 Crenshaw Boulevard (both part of Property 2) and 2530 and 2540 Skypark Drive (Property 3) addresses. While the complete Phase I ESA was not available to Stantec for review, a summary of findings was presented in Frey's *Evaluation of Subsurface VOCs*, dated February 23, 2018 (Frey, 2018). The Phase I ESA noted that aerospace and manufacturing industries had occupied the building addresses since the 1960s, and that VOCs were potentially utilized during the various manufacturing processes and generated heavy metal products, byproducts, and wastes. The Phase I also documented the use of petroleum-based products by current building occupants.

2.2 PHYSICAL SETTING

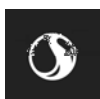
2.2.1 Topography

The Site is situated at an elevation of approximately 81 to 83 feet (ft) above mean sea level (msl). The topography slopes gently towards the north. The Site is bounded to the east by a commercial/industrial manufacturing facility (Property 2 of the EA Properties), to the north by Skypark Drive, to the south by a car dealership facility (Property 1 of the EA Properties), and to the west by a commercial/industrial manufacturing facility (the Hi-Shear facility).

2.2.2 Site Geology

A more detailed discussion of regional and local geology is presented in Sections 2.2 and 2.3 of Genesis Engineering & Redevelopment's (GER's) *Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report*, dated July 3, 2020 (GER, 2020). GER described soils beneath the project area in four units as follows:

- *Unit 1: Silt and clay are predominant in the upper 15 to 25 feet of sediment with interbedded lenses of fat clay. This unit is generally uniform in thickness throughout the area; however, it thickens to 35 feet in the southwest part of the investigation area.*



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- *Unit 2: This unit consists of primarily silty sand which grades to sand to the north along Crenshaw Boulevard. This unit extends to a depth of 40 to 50 feet below the ground surface ("bgs") and has a corresponding thickness between 20 feet and 30 feet.*
- *Unit 3: This unit consists generally of silt, clay, and fat clay that varies in thickness between 5 feet and 15 feet. Unit 3 is interbedded with clayey sand, silty sand, and/or sand layers that range in thickness between 1 foot and 3 feet. In the borings adjacent to Crenshaw Boulevard perched groundwater has occasionally been observed on top of Unit 3 or within the unit's interbeds. This unit is not as laterally continuous as are Units 1, 2, and 4 and tends to pinch out in areas resulting in windows that interconnect Unit 2 with Unit 4.*
- *Unit 4: Unit 4 is dominated by poorly graded to well graded sands and silty sand with interbedded 1 to 2-foot-thick layers of clayey sand. This unit is first encountered at a depth of 55 feet to 65 feet bgs and extends below the water table to at least 265 feet bgs. Occasional 1 to 3 foot thick discontinuous layers of silty sand and clayey sand occur throughout the unit. Heaving sands are encountered below the water table throughout the unit starting at approximately 110 feet bgs.*

2.2.3 Site Hydrogeology

As presented in Sections 2.2 and 2.3 of GER's report (GER, 2020), the Gage Aquifer is present at a depth of approximately 90 feet bgs with a thickness of approximately 100 feet in the vicinity of Property 3 and is comprised primarily of sand. A perched water layer was reported by GER at a depth of approximately 60 feet bgs in the vicinity of the EA Properties, with the static water table being encountered at a depth of approximately 90 feet bgs. Groundwater generally flows to the southeast beneath Property 3. As presented in GER's *Second Semi-Annual 2020 Groundwater Monitoring Report*, dated February 18, 2021 (GER, 2021), groundwater elevations observed in the Hi-Shear groundwater monitoring well network have been steadily increasing since at least 2007, with average groundwater elevations increasing by approximately one foot per year since 2014.

2.3 SITE ASSESSMENT SUMMARY

Stantec understands that multiple rounds of soil, soil vapor, and groundwater assessment have been performed on the Hi-Shear and EA Properties (including Property 3) by Hi-Shear's consultants. Reports documenting these assessment activities are available on the State Water Resources Control Board's online GeoTracker database page for SCP No. 0218 (https://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL204231523). The most recent report documenting environmental assessment activities at Property 3 and the surrounding parcels is GER's *Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report* (GER, 2020). A copy of a figure depicting the sample locations, as well as tables summarizing the collected analytical data are attached in Appendix B. The following summarizes key findings by GER as they relate to Property 3 (determined to be on-site and nearby vapor probe locations VP-26, VP-30, VP-81, VP-132, and VP-133):



VAPOR INTRUSION STUDY REPORT

Background

- To date, no investigations have identified VOCs in soil samples beneath Property 3 that indicate an on-site VOC source. As identified in GER's *Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report* (GER, 2020) – the highest concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) in on-site soil are 0.010 milligrams per kilogram (mg/kg) and 0.013 mg/kg, respectively (both of which are well below applicable commercial/industrial screening criteria). In contrast, PCE and TCE concentrations in soil beneath the adjacent upgradient Hi-Shear property have been detected at concentrations as high as 1,600 mg/kg and 5,500 mg/kg, respectively (in HS3 at 50 feet bgs), as documented in Camp Dresser & McKee Inc.'s *Report of Subsurface Soil Investigation at Hi-Shear Torrance Facility*, dated May 15, 1991. Overall, the observed increasing concentration trend in soil vapor with depth, a general absence of appreciable concentrations of VOCs in shallow soil beneath Property 3, and known sources/releases of PCE (and other VOCs) at the adjacent/upgradient Hi-Shear property suggest that VOC impacts beneath Property 3 (and the EA Properties, more generally) are the result of releases that have occurred at off-site locations; chiefly from the Hi-Shear property.
- Based on data presented in GER's *Second Semi-Annual 2020 Groundwater Monitoring Report* (GER, 2021), one groundwater monitoring well (MW-8) is located on the north side of the Property 3 building; a second groundwater monitoring well (MW-15) is located between the western edge of Property 3 and the adjacent Hi-Shear Property. During a December 26, 2019 groundwater sampling event (the last time wells MW-8 and MW-15 were sampled), the sample collected from MW-8 contained PCE and TCE at concentrations of 70 micrograms per liter (µg/L) and 5,000 µg/L, respectively, while the sample collected from MW-15 contained PCE and TCE at concentrations of 79 µg/L and 22 µg/L, respectively. It should be noted that samples collected from well MW-15 historically contained PCE and TCE at concentrations of up to 1,300 µg/L and 56,000 µg/L, respectively. During the December 26, 2019 groundwater sampling event, GER observed the groundwater gradient to be towards the southeast (away from the Hi-Shear property and towards Properties 1, 2 and 3, which would be directly downgradient of GER's reported groundwater gradient and flow direction).
- When reviewing data collected from Property 3, the highest detected concentrations of PCE and TCE in soil vapor were observed in VP-132 at concentrations of 881,000 micrograms per cubic meter (µg/m³ [at a depth of 80 feet bgs]) and 424,000 µg/m³ (also at a depth of 80 feet bgs), respectively. A review of data presented in GER's report indicates that most of the collected soil vapor data on the EA Properties (including Property 3) exhibits increasing concentrations with depth suggests that the observed impacts are volatilizing from groundwater or the deep smear-zone resulting from fluctuations in groundwater levels over time.

In summary, based on the available data, the elevated vapor-phase concentrations of VOCs historically detected beneath Property 3 appear to represent volatilization of contaminants in groundwater or in smear-zone soils resulting from adsorption from impacted groundwater, rather than from a release at Property 3.

2.4 STUDY AREA DESCRIPTION

Property 3 is improved with a large slab-on-grade building occupying a footprint of approximately 37,000 square feet. The building was formerly configured as a warehouse with office space occupying a second floor. The building has since been renovated into its current configuration, with the second floor removed, creating a building space with 15 to 20-foot high ceilings. The building is constructed over a slab-on-grade foundation and is bordered by asphalt or concrete pavement on all sides.



3.0 VAPOR INTRUSION STUDY

Based on previous work performed by others, the primary constituents of potential concern (COPCs) for this investigation, as defined and determined by GER's *Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report* (GER, 2020) are PCE, TCE, cis-1,2 dichloroethene (DCE), trans-1,2 DCE, 1,1-DCE, and vinyl chloride.

As presented in Table 2 of GER's 2020 report, vapor-phase COPC concentrations increase with depth to groundwater, with the highest observed concentrations being detected in soil vapor samples collected directly above groundwater; suggesting COPCs are partitioning from groundwater and/or smear-zone soils (interval of groundwater fluctuations within the lower vadose zone). Similarly, soil analytical data presented in Table 3 of GER's 2020 report (presented in Appendix B) suggests that the bulk of COPCs adsorbed to soil beneath Property 3 are constrained to smear-zone soils. Accordingly, the secondary source mass of the COPCs detected in groundwater and/or smear-zone soils are likely to be the primary source of COPCs in vapor phase below the Site building.

Of the identified COPCs, PCE is the primary risk-driver based on prevalence, concentration, and toxicity. While Stantec's Work Plan (Stantec, 2020) proposed limiting the analysis of the collected samples to the identified COPCs, in the LARWQCB's October 6, 2020 response letter, the LARWQCB requested that the collected samples be analyzed for the full suite of VOCs.

The following sub-sections describe the general methodology implemented for the VI Study along with a summary of deviations from the approved scope of work. It should be noted that all work was performed using methods reviewed and approved by a California-licensed professional engineer and/or geologist.

3.1 PRE-FIELD ACTIVITIES

3.1.1 Pre-Field Notification

Advanced scheduling and notification of sampling in and on private property was provided to the building owners and occupants. Advanced work notice was provided to the LARWQCB on February 2, 2021 prior to commencing with the ambient air, indoor air, and sub-slab vapor sampling activities.

3.1.2 Health and Safety Plan

A Site-specific Health and Safety Plan (HASP) was prepared as required by the State of California General Industry Safety Order 5192 and Title 29 of the Code of Federal Regulations, Section 1910.120. The HASP outlined potential hazards to Stantec personnel and subcontractors during planned field activities. The HASP also included required personal protective equipment to be worn by field personnel for each task. A copy of the HASP was available onsite during all field activities.



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3.1.3 Utility Locating

A private utility locating subcontractor was contracted to evaluate each of the proposed sub-slab sampling locations for subsurface features that may potentially interfere with proposed sampling activities.

3.2 VISUAL BUILDING SURVEY AND CHEMICAL USE INVENTORY

A building inspection was conducted on January 26, 2021 to assess building construction characteristics, heating, ventilation, and air conditioning system characteristics, building use and occupancy, chemical use and storage areas, and floor penetrations and other preferential pathways for vapor intrusion. A copy of the completed inspection survey is included in Appendix C. The building survey was utilized to facilitate the final selection of co-located indoor air and sub-slab sampling locations, as depicted on Figure 3.

3.3 VAPOR INTRUSION SAMPLING

Ambient air, indoor air, and sub-slab vapor samples were collected to assess indoor air concentrations and evaluate whether VOCs appear to be intruding into the Site building from the subsurface. Three outdoor ambient air (AA-1 through AA-3) samples, and eight co-located indoor air and sub-slab vapor samples (IA-1/VP-1 through IA-10/VP-8) were collected at the locations depicted on Figure 3. The ambient air and indoor air samples were collected on February 5, 2021, while the sub-slab vapor samples were collected on February 10, 2021.

3.3.1 General Techniques and Methods

3.3.1.1 Sample Collection Documentation

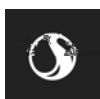
Field Forms

Several forms and the daily field log/report comprise the field record for the VI Study. Examples of various types of field forms include:

- Daily field notes;
- HASP tailgate safety meeting;
- Chain-of-custody (COC) forms; and
- Sample collections logs.

Field Notes

Field notes were collected during the field work and contains pertinent information regarding the Site conditions and sampling procedures implemented during the field VI Study. Information contained in the field notes included the date, time, location, and unique sample identifier, media sampled and description, analyses to be performed, observations, and any identified deviations from the Work Plan and rationale for the deviation.



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Chain-of-Custody

COC procedures were used to document the custody, control, transfer, and requested analysis of the samples collected as part of the VI Study. The COCs included sample identifiers, media sampled, container type and volume, and analyses to be performed. Signatures (relinquished by, received by) on the COC forms were made in ink and included the date and time of signature. COC accompanied samples from the time of collection to delivery to the laboratory. Copies of the COC forms are included with the laboratory reports in Appendix D.

Sample Identification

Samples were labeled, with the unique sample identifier, sample time and sample date recorded on the label. Samples were generally identified with the following sample ID nomenclature:

- The sample media or type is indicated by the first two letters as follows:
 - AA: Ambient Air
 - IA: Indoor Air
 - VP: Sub-slab vapor
- The first “#####” represents a sequential numerical identifier for the Site location number, based on the sample locations.

Photographic Documentation

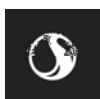
As permitted, sampling locations were documented with photographs. The photographic record of the sampling event allows positive identification of the sampling point, and shows existing conditions of the area before drilling activities and following the installation of the sub-slab vapor probes. To protect the privacy of the affected Site business, copies of the available sampling location photographs have been omitted from this report.

3.3.1.2 Equipment Decontamination

Single-use, disposable vapor sample tubing was used at each sampling point to avoid cross contamination. All sample containers and additional sampling apparatus were provided by the laboratory subcontractor and certified clean for the COPCs of this VI Study, and not reused between sampling point or mobilization prior to returning to the laboratory for cleaning.

3.3.2 Ambient Air Sampling

To understand ambient conditions, and for comparative purposes, Stantec’s subcontractor (H&P Mobile Geochemistry [H&P]) collected three outdoor ambient air samples during this VI Study (Figure 3) to ensure samples were collected both upwind and downwind of the Site building. To maintain quality assurance, the ambient air samples were collected at the same time as the indoor air samples and were outfitted with flow-controllers set at the same flow rate as the corresponding indoor air samples (10-hours for commercial sampling). The ambient air sampling containers’ inlet tubing were located within the typical



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breathing zone height for adults, approximately 4 to 5 ft above the ground. The initial vacuum of each canister was checked to assure that the canister had not leaked during transport from the laboratory to the sampling location. Throughout the sampling period, Stantec staff, or Stantec's air sampling subcontractor, periodically checked the vacuum gauges on the canisters to ensure that the canisters were sampling at the appropriate rate and operating properly. At the end of sample collection, the canister valve was closed before the vacuum reached zero vacuum; the final vacuum readings of the three collected ambient air samples ranged from 5 to 9 inches of mercury (in Hg). All samples were subsequently analyzed by H&P at their laboratory.

3.3.3 Indoor Air Sampling

Indoor air samples were collected from eight locations within the Site building to evaluate the VI exposure pathway. In addition to the eight indoor air samples, one replicate sample was also collected. The sample locations are shown at the locations depicted on Figure 3. Indoor air samples were collected over a 10-hour sampling period utilizing laboratory-provided, individually-certified 6-liter Summa® canisters. Indoor air sampling container inlets were located within the typical breathing zone, approximately 4 ft above the flooring. The initial vacuum of each canister was checked to assure that the canister had not leaked during transport from the laboratory to the sampling location. During the sampling period, Stantec and H&P staff periodically checked the vacuum in the canisters to ensure that the canisters were operating properly and sampling at the appropriate rate. The final vacuum readings of the three collected ambient air samples ranged from 5 to 9 in Hg; the samples were considered valid and were subsequently analyzed by H&P at their fixed laboratory.

3.3.4 Sub-Slab Vapor Probe Installation and Sampling

Eight (8) semi-permanent indoor sub-slab vapor probes were installed by Stantec's subcontractor (H&P). The locations of the probes were selected based on building features, flooring material, and observations and input from facility personnel during a Site walk with the property owner and building tenant representatives in advance of the installation. Initial soil vapor probe installation and subsequent sample collection was performed after indoor air sampling had been completed to avoid the potential for introducing subsurface vapors into indoor air samples.

3.3.4.1 Probe Installation

Sub-slab vapor probes were installed at eight locations using the following process:

- An approximate 1.5-inch (in) diameter hole was advanced approximately two inches into the building concrete slab. A smaller-diameter hole (approximately 5/8-in diameter) was advanced in the center of the 1.5-in hole and through the building concrete slab, and approximately three inches into underlying soils using a rotary hammer drill. Dust and loose cuttings generated during drilling were collected with a portable vacuum, and care was taken to avoid applying suction directly to the hole.
- Sub-slab vapor probes were constructed using Vapor Pins® manufactured by Cox-Colvin. The probe assembly was fitted with the manufacturer-supplied silicon sleeve to ensure an air-tight fit



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and then driven into the 5/8-in diameter hole in the concrete slab and inset into the 1.5-in-diameter hole. After installation and following sampling, a silicone cap was placed on the sub-slab sampling port to keep sub-slab vapors from migrating into the indoor air, and a plastic cover cap was placed over the sample port to protect from foot traffic, where applicable.

3.3.4.2 Leak Testing

A shut-in test was conducted on the purge syringe by closing all the sampling valves and applying a vacuum of 100 inches-of-water-column using a 60-milliliter (mL) gas-tight syringe to verify that no leaks in the sample train were present. Shut-in tests were also conducted on the 450 mL sample canisters to assure that there were not leaks in the sampling train connections.

During sampling leak checks were performed by placing a helium shroud around the sampling setup to test for leaks in the sampling train. A helium tracer gas was contained in the shroud placed over the sub-slab vapor probe location and the entire sample train. The sampling shroud was equipped with a port to facilitate the purging of the sub-slab vapor probe and the use of an in-line helium detector, a tracer gas injection port, and a switch to facilitate actuating the sampling train's three-way valve located inside the sampling shroud. Inside the sampling shroud was the sub-slab vapor probe, the sampling train (including the Summa[®] canister) and a helium detector. Helium was then injected into the sampling shroud and the measured concentration on the in-shroud helium detector was recorded.

3.3.4.3 Purging

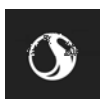
After the sampling equipment passed the shut-in test, the probe was purged to remove internal air from the sample train (tubing and sub-slab implant only). Three internal volumes were purged from each sampling probe using a 60-mL gas-tight syringe. The flow rate during purging was approximately equivalent to the flow rate during sampling at not more than 200 mL/minute (approximately 20 seconds to fill a 60-mL syringe), which is set by the flow controller provided by the laboratory. Each probe was sampled immediately following purging.

3.3.4.4 Sample Collection

Initial sub-slab vapor sampling was performed following a minimum equilibrium period of 2 hours. A total of eight sub-slab vapor samples (plus one replicate) were collected during this VI Study. The sub-slab vapor samples were collected using batch-certified 450-mL Summa[®] canisters, which were obtained from the project laboratory with the proper vacuum of approximately 30 in Hg. Teflon[®] or nylon tubing was used to connect the sub-slab sampling port to the sample containers fitted with flow regulators restricting flow to less than 200 mL per minute and an in-line particulate filter. The canister valve was closed when the laboratory-supplied analog vacuum gauge registered zero.

3.4 LABORATORY TESTING AND DATA VALIDATION

VI Study ambient air, indoor air, and sub-slab vapor samples were submitted to H&P under COC for analysis of full-scan VOCs by United States Environmental Protection Agency (USEPA) Test Method TO-15. Collected sub-slab vapor samples were also analyzed for helium by



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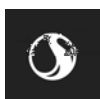
ASTM International (ASTM) Test Method D1945M. H&P reviewed the reported sample collection details, reported analytical results, and reported quality control results (including equipment blanks and laboratory control samples); the results of which indicate that no data were rejected, and the data are suitable for their intended purpose. Refer to Appendix D for additional data validation information.

3.5 DEVIATIONS FROM THE WORK PLAN

The following is a summary of Work Plan deviations and modifications related to the VI Study:

- **Sample Location Addendum:** Due to difficulties in securing access, and the desire to complete the work as soon as possible, the results of the building survey and chemical use inventory, along with selected indoor and outdoor air sample locations were not presented in an addendum submitted to the LARWQCB prior to collecting the indoor air and sub-slab vapor samples. Stantec staff involved in the project's management met with the field staff to discuss the findings of the visual building survey, and considered ongoing business operations when selecting the sampling locations. Accordingly, the deviation is not expected to have a significant impact on the findings from the completed scope of work.
- **Differential Pressure Monitoring:** The Work Plan proposed the collection of differential pressures during the completion of the indoor air sampling activities. Due to the desire to avoid the potential for introducing subsurface vapors into indoor air samples, the sub-slab vapor pins were not installed until after the indoor air sampling work was completed. It should be noted that none of the sub-slab vapor pins exhibited a probe pressure that differed from that within the building space.
- **Sub-Slab Vapor Sampling:** The Work Plan proposed the use of a water dam at each sub-slab vapor sampling location as an additional measure to seal and isolate the sub-slab environment from the indoor air environment. In some instances, the water dam would have interfered with sampling. Therefore, all samples were collected utilizing a helium shroud without the extra precaution of a water dam.

There were no other significant deviations from the Work Plan.



4.0 DISCUSSION OF RESULTS

The following sections summarize the results of the building survey and the subsequent ambient air, indoor air, and sub-slab vapor sampling activities. The Site building is utilized for commercial purposes; accordingly, screening levels established for commercial/industrial land use were utilized in this VI study.

Screening levels are conservative guidelines used as initial screening tools to assess chemical vapor concentrations below and inside buildings. When a chemical is found at a level above its screening level it does not necessarily indicate that VI is occurring or that there is a significant health risk. However, it does suggest further investigation may be beneficial, as the COPCs are also found in many industrial and household products including, cleaners, adhesives, glues, etc.

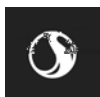
These screening criteria are derived from the following sources:

- The USEPA, Region 9, Regional Screening Levels (RSLs) for Indoor Air for Target Cancer Risk (TR) = $1\text{E-}06$, Target Hazard Quotient (THQ) = 1.0, and industrial land use (November 2020); and
- California Environmental Protection Agency (Cal-EPA), Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO), Human Health Risk Assessment Note Number 3, Modified Screening Levels (SLs) for Indoor Air (June 2020) for commercial/industrial land use.

Sub-slab vapor COPC results were compared to the RSLs and SLs referenced above utilizing a conservative attenuation factor of 0.03 (Table 2). In instances in which a COPC has both an RSL and an SL, the COPC concentrations were compared to the more conservative SL. Similarly, in instances in which a COPC had both carcinogenic and non-carcinogenic RSLs and/or SLs, the more conservative SL value was utilized.

4.1 BUILDING SURVEY

Stantec performed an initial non-invasive visual inspection of the Site building on January 26, 2021. The building space with a footprint of approximately 310 feet by 120 feet, is partitioned into two areas; the partition consists of a wall with one door and one rollup door linking the two spaces. In the main portion of the building, helicopter assembly activities take place; there is a small media blast room in the northwest corner of the building and an office area and restrooms along the south building wall. The media blast room was observed to contain multiple sand blasting stations, two parts cleaning stations, and several drums (placed atop secondary containment structures) containing fuel that had been recovered from the helicopters being serviced. Along the north wall there are two rooms; the northernmost room is a static parts cleaning room using an ultrasound bath and the southernmost room is vacant, containing tables and chairs. The main portion of the building was observed to have a total of 19 passive roof vents, multiple heaters installed near the ceiling (approximately 15 to 20 feet above the interior grade) and no air conditioning units. The media blast room was observed to have one passive roof vent and its own active ventilation system.



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The second portion of the building is utilized as warehouse space for helicopter engines, helicopter bodies, parts, and other related components. The warehouse portion of the building was noted as having four passive roof vents, no heaters, or air conditioning units.

During the January 26, 2021 visual building survey, except as noted above, Stantec staff did not have the opportunity to inspect any chemical storage areas. Based on a 2018 Chemical Use and Storage Questionnaire prepared for the Site by Robinson, the Site does not currently store chemicals, nor does it utilize any degreasers, have any storage tanks, sumps, clarifiers, etc., or possess an industrial use discharge permit. While no large slab penetrations (those greater than 1-foot across) were identified, a determination could not be made as to whether smaller slab penetrations were present; however, a test well was identified at the location of the rollup door between the two spaces. A copy of the completed visual building inspection form is included in Appendix C.

4.2 AMBIENT AIR

Ambient air samples were collected during the indoor air sampling event for comparative purposes to indoor air quality. As presented on Table 1, 12 COPCs were reported above laboratory reporting limits (LRLs) in ambient air: 2-butanone, benzene, carbon tetrachloride, chloromethane, dichlorodifluoromethane, ethylbenzene, methylene chloride, toluene, trichlorofluoromethane, 1,2,4-trimethylbenzene, m,p-xylene, and o-xylene. Only benzene was reported in the ambient air samples above the SL ($0.42 \mu\text{g}/\text{m}^3$) at concentrations ranging from $0.74 \mu\text{g}/\text{m}^3$ to $1.1 \mu\text{g}/\text{m}^3$. Ambient air sampling locations are presented on Figure 3. A copy of the associated laboratory analytical report and H&P's sample collection field notes are included in Appendix D.

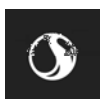
4.3 INDOOR AIR

As presented on Table 1, 14 COPCs were reported above LRLs in indoor air: 2-butanone, benzene, carbon tetrachloride, chloromethane, dichlorodifluoromethane, ethylbenzene, 4-ethyltoluene, methylene chloride, PCE, toluene, trichlorofluoromethane, 1,2,4-trimethylbenzene, m,p-xylene, and o-xylene. Of these COPCs, only benzene, which was reported in the indoor air samples at concentrations ranging from $0.81 \mu\text{g}/\text{m}^3$ to $1.4 \mu\text{g}/\text{m}^3$, exceeded the respective SL of $0.42 \mu\text{g}/\text{m}^3$. Based on the detection of benzene in ambient air samples at similar concentrations (ranging from $0.74 \mu\text{g}/\text{m}^3$ to $1.1 \mu\text{g}/\text{m}^3$), Stantec concludes that indoor benzene concentrations are reflective of ambient air conditions and not the result of VI.

Indoor air data is summarized on Table 1, while a copy of the associated laboratory analytical report and H&P's sample collection field notes are included in Appendix D.

4.4 SUB-SLAB VAPOR

As presented on Table 2, five COPCs were reported above LRLs in sub-slab vapor samples: benzene, PCE, TCE, toluene, and 1,1,2-trichlorotrifluoroethane. Of these COPCs, only PCE, which was reported in the sub-slab vapor samples at concentrations ranging from $670 \mu\text{g}/\text{m}^3$ to $43,000 \mu\text{g}/\text{m}^3$, exceeded the SL of $67 \mu\text{g}/\text{m}^3$ (when applying an attenuation factor of 0.03). While PCE was reported in all collected indoor



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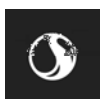
air samples, the concentrations of PCE detected in the collected indoor air samples (ranging from 0.90 $\mu\text{g}/\text{m}^3$ to 1.5 $\mu\text{g}/\text{m}^3$) was below the established SL of 2.0 $\mu\text{g}/\text{m}^3$.

Sub-slab vapor data is summarized on Table 2, while a copy of the associated laboratory analytical report and H&P's sample collection field notes are included in Appendix D.

The ratio of indoor air to sub-slab PCE concentrations ranged from 0.0015 to 0.00003 with a mean ratio of 0.0001. This indicates that using an attenuation factor of 0.03 to assess sub-slab screening levels is extremely conservative.

Based on the collected data, if VI is occurring, PCE concentrations in indoor air do not exceed the chronic SL.

As part of the sampling process, H&P staff also affixed analog pressure gauges to each of the installed sub-slab vapor probes to evaluate the building space for potential differences in sub-slab vapor pressures. In all instances, the sub-slab vapor probes registered a probe pressure of "zero", suggesting differential pressure conditions in sub-slab vapor beneath the Site building are not present.

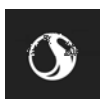


5.0 CONCLUSIONS

The VI Study was conducted pursuant to the investigative order and was performed to evaluate whether the presence of subsurface VOCs potentially posed a vapor intrusion risk to Site workers. Based on a review of the collected ambient air, indoor air, and sub-slab vapor samples, Stantec's conclusions regarding the COPCs identified in one or more samples at concentrations exceeding their respective RSLs or SLs are as follows:

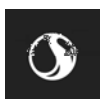
- Benzene is present in indoor and outdoor ambient air at similar concentrations. A comparison of indoor air data to ambient air data suggests the benzene concentrations observed in indoor air are not originating subsurface vapors or from the indoor building space, but rather are reflective of background ambient air conditions in the vicinity of the Site.
- PCE was reported above the SL at all eight sub-slab vapor sample locations; however, PCE was not detected in any of the indoor samples at concentrations exceeding the SL. The ratio of indoor air to sub-slab PCE concentrations ranged from 0.0015 to 0.00003 with a mean ratio of 0.0001.

Based on evaluation of the data, this study did not find evidence of a significant vapor intrusion pathway of concern. The primary COPC for vapor intrusion is PCE. However, PCE was not reported above the chronic SL. Stantec opines that vapor intrusion is not a pathway of exposure of concern for other COPCs detected in indoor air, and that most of these COPCs are likely the result of sources other than intrusion from the subsurface.



6.0 REFERENCES

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TABLES

TABLE 1
Summary of Indoor Air & Ambient Air Sample Analytical Results
East-Adjacent Properties - Property 3
2530 & 2540 Skypark Drive, Torrance, California 90505

Sample Location	Date Sampled	2-Butanone (ug/m ³)	Benzene (ug/m ³)	Carbon tetrachloride (ug/m ³)	Chloromethane (ug/m ³)	Dichlorodifluoromethane (ug/m ³)	Ethylbenzene (ug/m ³)	4-Ethyltoluene (ug/m ³)	Methylene chloride (ug/m ³)	PCE (ug/m ³)	TCE (ug/m ³)	Toluene (ug/m ³)	Trichlorofluoromethane (ug/m ³)	1,1,2-Trichlorotrifluoroethane (ug/m ³)	1,2,4-Trimethylbenzene (ug/m ³)	m,p-Xylene (ug/m ³)	o-Xylene (ug/m ³)	All Other VOCs
EPA Reg. 9 RSL (Industrial) ¹		22,000	1.6	2.0	390	440	4.9	--	1,200	47	3.0	22,000	--	22,000	260	440	440	various
DTSC SL (Commercial/Industrial) ²		--	0.42	2.0	--	--	--	--	12	2.0	--	1,300	5,300	--	--	--	--	various
Indoor Air Samples																		
IA-1	2/5/2021	3.2	0.84	0.57	1.4	1.0	<0.44	<0.50	0.85	1.1	<0.55	7.3	1.5	<0.77	0.60	1.5	0.6	ND
IA-1 REP	2/5/2021	3.3	0.81	0.57	1.3	<1.0	0.44	<0.50	0.78	1.0	<0.55	6.7	1.4	<0.77	0.65	1.5	0.7	ND
IA-2	2/5/2021	3.4	0.84	0.57	1.3	1.1	0.44	<0.50	0.78	1.2	<0.55	3.9	1.1	<0.77	0.75	1.5	0.7	ND
IA-3	2/5/2021	3.3	1.3	0.57	1.3	<1.0	1.1	<0.50	0.88	1.5	<0.55	14	1.3	<0.77	1.4	3.9	1.8	ND
IA-4	2/5/2021	4.0	1.4	0.57	1.3	<1.0	0.88	<0.50	0.88	1.4	<0.55	6.6	1.4	<0.77	1.0	3.2	1.3	ND
IA-5	2/5/2021	4.1	1.2	0.57	1.2	<1.0	0.92	0.50	0.88	1.2	<0.55	7.8	1.1	<0.77	1.4	3.4	1.5	ND
IA-6	2/5/2021	3.4	1.2	0.51	1.2	<1.0	0.88	<0.50	0.88	1.0	<0.55	5.2	1.2	<0.77	1.3	3.1	1.4	ND
IA-7	2/5/2021	3.7	1.3	0.57	1.2	<1.0	0.92	<0.50	0.92	0.90	<0.55	5.6	1.3	<0.77	1.3	3.2	1.4	ND
IA-8	2/5/2021	3.9	1.3	0.51	1.2	<1.0	1.1	<0.50	0.92	1.0	<0.55	7.6	1.3	<0.77	1.5	4.1	1.7	ND
Ambient Air Samples																		
AA-1	2/5/2021	1.3	1.1	0.57	1.3	<1.0	0.57	<0.50	1.1	<0.69	<0.55	2.3	1.4	<0.77	0.90	2.0	0.88	ND
AA-2	2/5/2021	3.0	0.81	0.57	1.4	<1.0	<0.44	<0.50	0.78	<0.69	<0.55	1.7	1.4	<0.77	<0.50	1.1	0.48	ND
AA-3	2/5/2021	2.6	0.74	0.51	1.2	1.0	0.53	<0.50	0.88	<0.69	<0.55	1.8	1.3	<0.77	0.80	1.8	0.75	ND

Notes:

Analysis for full-scan VOCs by USEPA Test Method TO-15.

PCE = Tetrachloroethene

TCE = Trichloroethene

VOC = Volatile organic compound

ug/m³ = Micrograms per cubic meter

ND = Not detected at or above the laboratory's reporting limit

DUP = Duplicate sample

< = Analyte not reported at or above the laboratory's reporting limit

-- = Not analyzed or not applicable

Bold concentrations represent detections exceeding established screening level.

1 = US Environmental Protection Agency Region 9 Regional Screening Levels for Indoor Air (TR=1E-06, HQ=1), November 2020; the lower of the carcinogenic and non-carcinogenic values is listed for each analyte.

2 = Department of Toxic Substances Control HERO Note 3, Table 1 - DTSC Recommended Screening Levels for Indoor Air, June 2020; the lower of the carcinogenic and non-carcinogenic values is listed for each analyte.

TABLE 2
Summary of Sub-Slab Vapor Sample Analytical Results
East-Adjacent Properties - Property 3
2530 & 2540 Skypark Drive, Torrance, California 90505

Sample Location	Date Sampled	2-Butanone (ug/m ³)	Benzene (ug/m ³)	Carbon tetrachloride (ug/m ³)	Chloromethane (ug/m ³)	Dichlorodifluoromethane (ug/m ³)	Ethylbenzene (ug/m ³)	4-Ethyltoluene (ug/m ³)	Methylene chloride (ug/m ³)	PCE (ug/m ³)	TCE (ug/m ³)	Toluene (ug/m ³)	Trichlorofluoromethane (ug/m ³)	1,1,2- Trichlorotrifluoroethane (ug/m ³)	1,2,4-Trimethylbenzene (ug/m ³)	m,p-Xylene (ug/m ³)	o-Xylene (ug/m ³)	All Other VOCs	Helium (LCC)
EPA Reg. 9 RSL (Industrial)¹		733,333	53	67	13,000	14,667	163	--	40,000	1,567	100	733,333	--	733,333	8,667	14,667	14,667	various	--
DTSC SL (Commercial/Industrial)²		--	14	67	--	--	--	--	400	67	--	43,333	176,667	--	--	--	--	various	--
VP-1	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	5,700	75	19	<28	750	<25	<44	<22	ND	<0.10
VP-1 DUP	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	6,000	77	<19	<28	810	<25	<44	<22	ND	<0.10
VP-2	2/10/2021	<300	<32	<64	<21	<50	<44	<50	<35	26,000	<55	63	<56	340	<50	<88	<44	ND	<0.10
VP-3	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	13,000	<27	21	<28	360	<25	<44	<22	ND	<0.10
VP-4	2/10/2021	<600	<65	<130	<41	<100	<88	<100	<71	43,000	<110	<76	<110	220	<100	<180	<88	ND	<0.10
VP-5	2/10/2021	<60	<6.5	<13	<4.1	<10	<8.8	<10	<7.1	3,200	<11	21	<11	260	<10	<18	<8.8	ND	<0.10
VP-6	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	8,500	<27	23	<28	240	<25	<44	<22	ND	<0.10
VP-7	2/10/2021	<60	<6.5	<13	<4.1	<10	<8.8	<10	<7.1	3,600	<11	18	<11	180	<10	<18	<8.8	ND	<0.10
VP-8	2/10/2021	<30	4.8	<6.4	<2.1	<5.0	<4.4	<5.0	<3.5	670	<5.5	14	<5.6	160	<5.0	<8.8	<4.4	ND	<0.10

Notes:

Analysis for full-scan VOCs by USEPA Test Method TO-15, and for helium by ASTM Method D1945M.

PCE = Tetrachloroethene

TCE = Trichloroethene

VOC = Volatile organic compound

LCC = Leak-check compound

ug/m³ = Micrograms per cubic meter

ND = Not detected at or above the laboratory's reporting limit

DUP = Duplicate sample

< = Analyte not reported at or above the laboratory's reporting limit

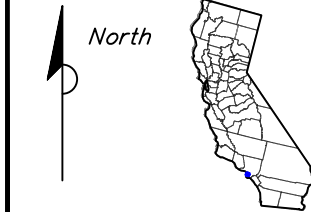
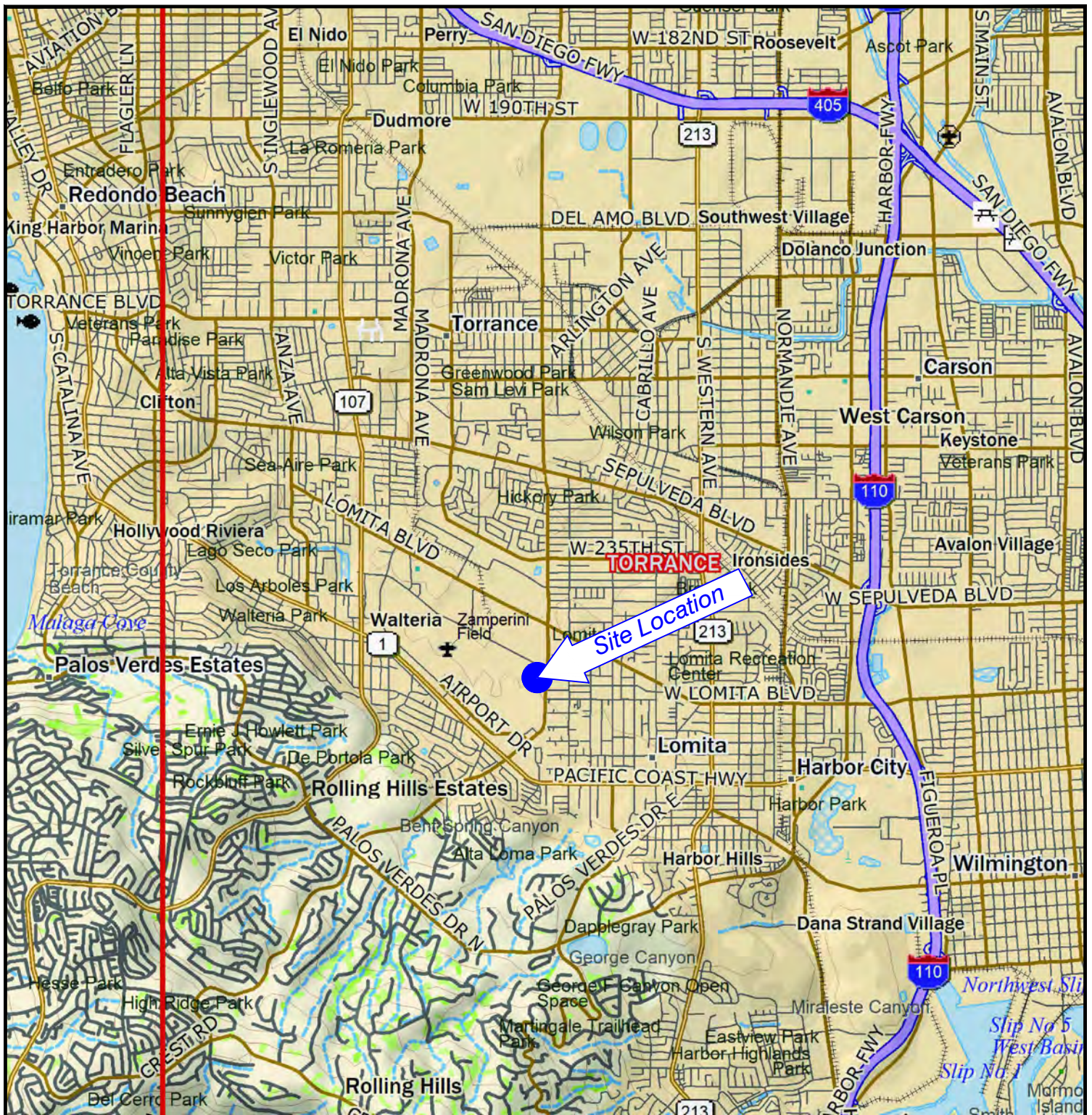
-- = Not analyzed or not applicable

Bold concentrations represent detections exceeding established screening level.

1 = US Environmental Protection Agency Region 9 Regional Screening Levels for Indoor Air (TR=1E-06, HQ=1), November 2020 with an attenuation factor of 0.03 was utilized to calculate the listed values. The lower of the carcinogenic and non-carcinogenic values was utilized for each analyte.

2 = Department of Toxic Substances Control HERO Note 3, Table 1 - DTSC Recommended Screening Levels for Indoor Air, June 2020 with an attenuation factor of 0.03 was utilized to calculate the listed values. The lower of the carcinogenic and non-carcinogenic values was utilized for each analyte.


FIGURES



CALIFORNIA

REFERENCE: DELORME TOPO MAP, TORRANCE, CALIFORNIA

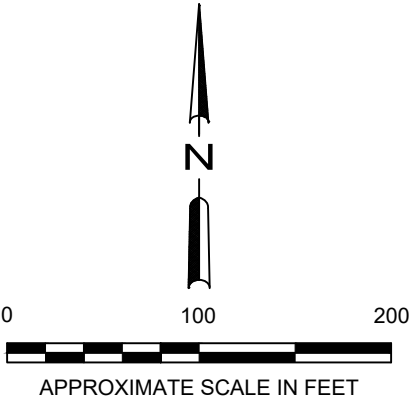
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<div> Stantec</div> <div>290 Conejo Ridge Avenue Thousand Oaks, CA 91361 PHONE: (805) 230-1266 FAX: (805) 230-1277</div>	<div>EAST ADJACENT PROPERTIES PROPERTY 3 2530 AND 2540 SKYPARK DRIVE TORRANCE, CALIFORNIA</div>		<div>SITE LOCATION MAP</div>		<div>FIGURE: 1</div>
	<div>JOB NUMBER: 185804849</div>	<div>DRAWN BY: STA</div>	<div>CHECKED BY: BC</div>	<div>APPROVED BY: BC</div>	<div>DATE: 08/10/20</div>



LEGEND:


----- PROPERTY BOUNDARY



APPROXIMATE SCALE IN FEET

No warranty is made by Stantec Consulting Services Inc. as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

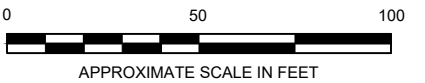
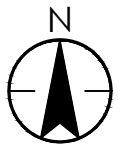
REFERENCE: GOOGLE EARTH PRO AND STANTEC FIELD NOTES.

 290 Conejo Ridge Avenue Thousand Oaks, CA 91361 PHONE: (805) 230-1266 FAX: (805) 230-1277	EAST ADJACENT PROPERTIES PROPERTY 3 2530 AND 2540 SKYPARK DRIVE TORRANCE, CALIFORNIA		SITE PLAN		FIGURE: 2
	JOB NUMBER: 185804849	DRAWN BY: STA	CHECKED BY: BC	APPROVED BY: BC	DATE: 08/10/20




LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- INDOOR AIR/SUB-SLAB VAPOR SAMPLE LOCATION
- AMBIENT AIR SAMPLING LOCATION



NOTE:
INTERIOR FLOOR PLAN DIGITIZED USING A SITE PLAN PROVIDED BY
ROBINSON HELICOPTER COMPANY

No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

 Stantec 290 Conejo Ridge Avenue Thousand Oaks, CA 91361 PHONE: (805) 230-1266 FAX: (805) 230-1277	FOR: EAST ADJACENT PROPERTIES PROPERTY 3 2530 AND 2540 SKYPARK DRIVE TORRANCE, CALIFORNIA		VAPOR INTRUSION STUDY SAMPLE LOCATIONS		FIGURE: 3
	JOB NUMBER: 185804980	DRAWN BY: JBL	CHECKED BY: BC	APPROVED BY: LS	DATE: 02/12/21

APPENDIX A

LARWQCB Correspondences

Los Angeles Regional Water Quality Control Board

INVESTIGATIVE ORDER NO. R4-2020-0035

CALIFORNIA WATER CODE SECTION 13267 ORDER

**ORDER TO PROVIDE A TECHNICAL WORK PLAN TO ASSESS VAPOR
INTRUSION RISK IN INDOOR AIR AND TO IMPLEMENT A VAPOR INTRUSION
RESPONSE PLAN**

DIRECTED TO
THE CITY OF TORRANCE
MAGELLAN AEROSPACE, MIDDLETOWN, INC. (FORMERLY KNOWN AS
AERONCA, INC., FORMERLY KNOWN AS AERONCA MANUFACTURING
CORPORATION)
EXCELLON INDUSTRIES, INC. (ALSO KNOWN AS EXCELLON AUTOMATION
COMPANY AND NOW KNOWN AS EXCELLON TECHNOLOGIES, LLC)
ESTERLINE TECHNOLOGIES CORPORATION
ROBINSON HELICOPTER COMPANY
DASCO ENGINEERING CORPORATION
HI-SHEAR CORPORATION (ALSO KNOWN AS LISI AEROSPACE)

SKYPARK COMMERCIAL PROPERTIES

NORTHEAST PORTION OF CITY OF TORRANCE PARCEL
ASSESSOR PARCEL NO. 7377-006-906
24751 CRENSHAW BOULEVARD, TORRANCE, CALIFORNIA
24777 CRENSHAW BOULEVARD, TORRANCE, CALIFORNIA
24707 CRENSHAW BOULEVARD, TORRANCE, CALIFORNIA
24747 CRENSHAW BOULEVARD, TORRANCE, CALIFORNIA
24701 CRENSHAW BOULEVARD, TORRANCE, CALIFORNIA
2530 SKYPARK DRIVE, TORRANCE, CALIFORNIA
2540 SKYPARK DRIVE, TORRANCE, CALIFORNIA
2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA

(SCP NO. 1499)

ON
MAY 12, 2020

IRMA MUÑOZ, CHAIR | RENEE PURDY, EXECUTIVE OFFICER

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) makes the following findings and issues this Order pursuant to California Water Code (CWC) section 13267 requiring the City of Torrance; Magellan Aerospace, Middletown, Inc. (formerly known as Aeronca, Inc. formerly known as Aeronca Manufacturing Corporation); Excellon Industries, Inc. (also known as Excellon Automation Company and now known as Excellon Technologies, LLC); Esterline Technologies Corporation; Robinson Helicopter Company; Dasco Engineering Corporation; and Hi-Shear Corporation (also known as Lisi Aerospace) (hereinafter collectively referred to as Parties) to assess the vapor intrusion risk to indoor air at the properties located at 24751, 24777, 24707, 24747, and 24701 Crenshaw Boulevard and 2530, 2540, and 2600 Skypark Drive in the City of Torrance (hereinafter collectively referred to as the "Site") and properties off-Site. Volatile organic compounds (VOCs), primarily trichloroethene (TCE) and tetrachloroethene (PCE), are among the chemicals of concern.

1. The Site is approximately 27 acres in size and is located on the northeast portion of assessor parcel number (APN) 7377-006-906 in Torrance, California shown in Attachment 1. The Site envelops existing Regional Board cases Hi-Shear Corporation (Hi-Shear; Global ID No. SL204231523; Site ID No. 2042300; File SCP No. 0218) and East Adjacent Properties of Hi-Shear Corporation (EA Properties; Global ID No. T10000013835; File SCP No. 1481). The entire parcel APN 7377-006-906, including the Site, is owned by the City of Torrance and has been primarily leased to aviation or aerospace-related companies since 1954.
2. The following is a summary of the current and former occupants and the historical property use for the Hi-Shear Corporation property and the EA Properties.
 - A. Hi-Shear Corporation (Hi-Shear) is located at 2600 Skypark Drive and occupies the western half of the Site. Hi-Shear has been an occupant as early as 1954. Activities performed on the property include the manufacture, production, assembly and cleaning of fasteners for the aerospace industry. Wastes generated as part of the activities contained VOCs, primarily TCE and PCE. Maximum historical soil PCE and TCE concentrations detected beneath the Hi-Shear property are 3,200,000 micrograms per kilogram ($\mu\text{g}/\text{kg}$) and 7,200,000 $\mu\text{g}/\text{kg}$, respectively.
 - B. EA Properties are located at 24751, 24777, 24707, 24747, and 24701 Crenshaw Boulevard, and at 2530 and 2540 Skypark Drive and occupy the eastern half of the Site. EA Properties consist of Property 1 (24751 and 24777 Crenshaw Boulevard), Property 2 (24707, 24747 and 24701 Crenshaw Boulevard), and Property 3 (2530 and 2540 Skypark Drive).
 - i. Property 1 occupants include: Aeronca, Inc. (a manufacturer of aircraft, missiles and their components from 1954 to 1987), Excellon

Industries, Inc., an Esterline Company, also known as Excellon Automation Company (a manufacturer of printed circuit board fabrication equipment from 1979 to 2003), and South Bay Lexus (a vehicle dealership from 2006 to present). Wastes generated as part of the historical occupants' activities contained PCE, 1,1,1-trichloroethane (1,1,1-TCA), trichlorotrifluoroethane, alkaline and solvent mixtures, waste oil mixtures, and organic waste mixtures.

- ii. Property 2 occupants include: Aeronca, Inc. (a manufacturer of aircraft, missiles and their components from 1966 to 1973), Robinson Helicopter Company (a manufacturer of rotorcraft and related components from 1978 to 1996), and Dasco Engineering Corporation (a manufacturer of precision mechanical aircraft and space components from 1995 to present).
- iii. Property 3 has been occupied by Robinson Helicopter from 1978 to present. The occupant has used the property to operate paint spray booths and store solvents.

Maximum historical soil PCE and TCE concentrations detected beneath the EA Properties are 3,390 µg/kg and 223 µg/kg, respectively.

- 3. Under the oversight of this Regional Board, Hi-Shear has been implementing onsite and offsite investigations and interim mitigation measures under a Water Code section 13267 Order dated October 29, 2009. The most recent investigations completed are documented in the technical reports titled, "Soil, Soil Vapor, and Groundwater Delineation – Module I" (Module I) dated March 13, 2020 and "Soil, Soil Vapor, and Groundwater Delineation Report – Module II" (Module II) dated March 16, 2020, prepared by Genesis Engineering and Redevelopment, Inc. (Genesis) on behalf of Hi-Shear. Additionally, on March 20, 2020, Genesis submitted the "Vapor Intrusion Response Plan" (VIRP), which proposes response actions to assess vapor intrusion risk based on the VOCs detected in soil vapor in the residential and commercial areas located east of Crenshaw Boulevard. A summary of Module I, Module II and the VIRP is provided below.
 - A. Module I documented the results of the soil vapor assessment east of Crenshaw Boulevard (i.e., off-Site into the City of Torrance and City of Lomita neighborhoods). Soil vapor sample results indicated elevated concentrations of VOCs in the area between Crenshaw Boulevard and Pennsylvania Avenue, and the area between Amsler Avenue and in the vicinity of 247th Street. Additional delineation and the implementation of the VIRP are warranted to fully assess and address potential threats to human health and the environment.

- B. Module II documented the results of the soil and soil vapor assessment on the Hi-Shear property. Soil vapor sample results indicated elevated concentrations of VOCs on the eastern and western portions of the Hi-Shear property, converging towards the center of the property. The restart of the soil vapor extraction system and an indoor air assessment are warranted.
 - C. The VIRP provides the criteria and sequence for response actions and proposed further soil vapor, sub-slab vapor, and indoor air sampling for VOCs at residential and commercial properties east of Crenshaw Boulevard. The Regional Board is in the process of reviewing the VIRP.
- 4. On January 13, 2020, the Regional Board issued a Water Code section 13267 Order to the City of Torrance; Magellan Aerospace, Middletown, Inc. (formerly known as Aeronca, Inc. formerly known as Aeronca Manufacturing Corporation); Excellon Industries, Inc. (also known as Excellon Automation Company and now known as Excellon Technologies, LLC); Esterline Technologies Corporation; Robinson Helicopter Company; and Dasco Engineering Corporation for the EA Properties to submit a technical work plan for the complete delineation of the vertical and lateral extent of VOCs impacts to soil, soil vapor, and groundwater onsite and offsite. This Order discusses the relationship of each of the parties to the various properties and identifies reasons why each is a suspected discharger. To date, the EA Properties have not submitted the required work plan which was due on April 3, 2020.
 - 5. On March 6, 2020, the Regional Board issued an amendment to a Water Code section 13267 Order, requiring Hi-Shear to submit an indoor air sampling and analysis plan to assess the vapor intrusion risk for occupants on the Hi-Shear property. On April 28, 2020, the Regional Board received the "Onsite Indoor Assessment Workplan."
 - 6. California Water Code (CWC) section 13267, subdivision (b)(1) states, in part:

"In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or, discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person

with a written explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports.”

7. The Regional Board has evidence in the case file for the Site and data collected as part of Hi-Shear’s ongoing investigations and interim mitigation measures indicating that there was a discharge of waste at or from the Site that continues to migrate unabated. The discharge of waste poses a potential vapor intrusion risk to on-Site and off-Site occupants that has not been assessed or evaluated. For the purposes of the findings of this Order, pertinent historical report(s) and the most recently available soil vapor data at depths of 5 and 15 feet below ground surface (ft-bgs) from the Module I and Module II reports were reviewed. These depths are consistent with the “Public Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion” (Supplemental Guidance), prepared by Department of Toxic Substances Control (DTSC) and California Water Resources Control Boards dated February 2020. For ease of reference, the soil vapor data is summarized below by the following locations – Hi-Shear, EA Properties, and off-Site in the City of Torrance and City of Lomita neighborhoods.

A. Hi-Shear

- i. Maximum soil vapor PCE and TCE concentrations at 5 ft-bgs are 2,850,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and 684,000 $\mu\text{g}/\text{m}^3$, respectively. Soil vapor samples were collected and analyzed in October and November 2019.
- ii. Maximum soil vapor PCE and TCE concentrations at 15 ft-bgs are 290,000 $\mu\text{g}/\text{m}^3$ and 36,100 $\mu\text{g}/\text{m}^3$, respectively. Soil vapor samples were collected and analyzed in October and November 2019.
- iii. These soil vapor concentrations exceed the commercial soil vapor screening level of 67 $\mu\text{g}/\text{m}^3$ for PCE and 100 $\mu\text{g}/\text{m}^3$ for TCE.

B. EA Properties

- i. Maximum soil vapor PCE and TCE, concentrations at 5 ft-bgs are 17,700,000 $\mu\text{g}/\text{m}^3$ and 791,000 $\mu\text{g}/\text{m}^3$ respectively. Soil vapor samples were collected in August 2014 and June 2016.
- ii. Maximum soil vapor PCE and TCE concentrations at 15 ft-bgs are 27,900,000 $\mu\text{g}/\text{m}^3$ and 899,000 $\mu\text{g}/\text{m}^3$, respectively. Soil vapor samples were collected and analyzed in August 2014 and June 2016.
- iii. These soil vapor concentrations exceed the commercial soil vapor screening level of 67 $\mu\text{g}/\text{m}^3$ for PCE and 100 $\mu\text{g}/\text{m}^3$ for TCE.

C. Off-Site in the City of Torrance and City of Lomita neighborhoods

- i. Maximum soil vapor PCE and TCE concentrations at 5 ft-bgs are 6,070 $\mu\text{g}/\text{m}^3$ and 30,000 $\mu\text{g}/\text{m}^3$, respectively. Soil vapor samples were collected and analyzed in January 2020.
- ii. Maximum soil vapor PCE and TCE concentrations at 15 ft-bgs are 7,710 $\mu\text{g}/\text{m}^3$ and 152,000 $\mu\text{g}/\text{m}^3$, respectively. Soil vapor samples were collected and analyzed in January 2020.
- iii. These soil vapor concentrations exceed both the commercial and residential soil vapor screening levels of 67 $\mu\text{g}/\text{m}^3$ and 15 $\mu\text{g}/\text{m}^3$ for PCE, 100 $\mu\text{g}/\text{m}^3$ and 16 $\mu\text{g}/\text{m}^3$ for TCE, respectively

Based on the available case files, the recent soil vapor PCE and TCE concentrations summarized above and the soil concentrations detected on the Hi-Shear and EA Properties, the VOC soil vapor plumes beneath the Hi-Shear property and EA Properties are commingled. The recent soil vapor concentrations demonstrate that the plumes have migrated off-Site and east of Crenshaw Boulevard.

8. This Order identifies the above suspected dischargers of waste identified in paragraphs one (1) through five (5) and seven (7), because, as described above these entities own(ed) and/or operated the properties on which the waste is or has been discharged and continues to migrate unabated in soil and soil vapor, which is a potential threat to human health.
9. This Order requires the Parties to prepare and submit a technical work plan to completely assess the vapor intrusion risk to indoor air on-Site and off-Site and to implement the VIRP or a substantively similar plan that will assess the vapor intrusion threat to human health and the environment in areas impacted above DTSC Human Health Risk Assessment (HHRA) Note No.3 screening levels or USEPA Regional Screening Levels (RSLs). You are expected to submit a complete work plan as required by this Order. The Regional Board may reject the report if it is deemed incomplete and/or require revisions to the report under this Order.
10. The burdens, including costs, of these reports bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. The information is necessary to adequately determine the extent of discharges of wastes at and from the Site to assure adequate cleanup of the Site, as contaminants at the Site may pose a threat to public health and the environment. The technical reports required by this Order are needed by the Regional Board in order to assess the vapor intrusion risk for occupants on-Site and off-Site resulting

from the discharges of waste, specifically VOCs and identify appropriate on-Site and off-Site interim mitigation measures.

11. The issuance of this Order is an enforcement action by a regulatory agency and is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations, title 14, section 15321, subdivision (a)(2). This Order requires submittal of technical reports, and may require the submittal of including workplans. The scope of activities required to prepare the reports required by this Order are not yet known. It is unlikely that compliance with this Order, including implementation of the work plans, could result in anything more than minor physical changes to the environment. If the implementation of this Order may result in significant impacts on the environment, the appropriate lead agency will address the CEQA requirements prior to approval of any work plan.
12. Any person aggrieved by this action of the Regional Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

THEREFORE, IT IS HEREBY ORDERED that the City of Torrance; Magellan Aerospace, Middletown, Inc. (formerly known as Aeronca, Inc. formerly known as Aeronca Manufacturing Corporation); Excellon Industries, Inc. (also known as Excellon Automation Company and now known as Excellon Technologies, LLC); Esterline Technologies Corporation; Robinson Helicopter Company; Dasco Engineering Corporation; and Hi-Shear Corporation (also known as Lisi Aerospace) pursuant to Water Code section 13267, subdivision (b), are required to submit the following:

1. By **July 10, 2020**, a technical work plan, acceptable to the Executive Officer, to assess the vapor intrusion risk to indoor air at the EA Properties and off-Site. This shall contain but is not limited to items (A) through (D) listed below.
 - A. The technical work plan shall be developed in accordance with the Supplemental Guidance; DTSC's "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air," dated October 2011; DTSC's "Vapor Intrusion Mitigation Advisory," (VIMA) dated October 2011; and other applicable existing California guidance.

- B. A description of the proposed soil vapor, sub-slab vapor and/or indoor air sampling locations. The soil vapor, sub-slab vapor and/or indoor air sampling locations shall consider the available environmental data collected as part of Hi-Shear's onsite and offsite investigations and interim mitigation measures. The sampling locations shall be presented on an accurately scaled map.
 - C. Soil vapor, sub-slab vapor and/or indoor air samples shall be analyzed for VOCs and laboratory reporting limit concentrations shall be sufficiently low to identify risks such that all known or suspected carcinogens are included in the risk assessment. Vapor concentration units shall be reported in $\mu\text{g}/\text{m}^3$.
 - D. A timeline for implementing the work plan. Completion of all indoor air sampling contemplated by the work plan shall occur no later than **October 30, 2020**. This Order contemplates one technical work plan for the EA Properties and the soil vapor plume identified east of Crenshaw Boulevard.
- 2. On March 20, 2020, Genesis submitted the VIRP on behalf of Hi-Shear. The Parties must implement the VIRP (with any conditions of approval by the Regional Board) or a substantively similar work plan designed to assess the vapor intrusion threat to human health and the environment for buildings east of Crenshaw Boulevard, in areas exceeding DTSC HHRA Note No. 3 screening levels or USEPA RSLs. The Parties must complete the VIRP (as conditionally approved) or any substantively similar plan (reviewed and approved by the Regional Board) no later than **October 15, 2020**.
 - 3. The Regional Board recommends the Parties work together to implement the work plan in Item 1 and VIRP (or equivalent plan) to avoid duplication of efforts. If the results of the work plan implementation indicate unacceptable risk to building occupants, the Regional Board further recommends that the Parties develop and implement mitigation measures as soon as possible to reduce vapor intrusion. Refer to the DTSC's VIMA for examples of various mitigation measures.
 - 4. This Order shall not supersede, rescind, nor amend requirements set forth in the existing Hi-Shear Corporation (Global ID No. SL204231523; Site ID No. 2042300; File SCP No. 0218) and East Adjacent Properties of Hi-Shear Corporation (Global ID No. T10000013835; File SCP No. 1481) orders originally dated October 29, 2009 and January 13, 2020, respectively. All aspects of those orders, and their amendments thereto, remain in full force and effect.
 - 5. The above items shall be submitted to:

Kevin Lin, P.E.
Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200

Los Angeles, CA 90013
Phone: (213) 576-6781
Email: kevin.lin@waterboards.ca.gov

6. Pursuant to Water Code section 13268, subdivision (a), any person who fails to submit reports in accordance with the Order is guilty of a misdemeanor. Pursuant to Water Code section 13268, subdivision (b)(1), failure to submit the required technical report described above by the specified due date(s) may result in the imposition of administrative civil liability by the Regional Board in an amount up to one thousand dollars (\$1,000) per day for each day the technical report is not received after the above due date. These civil liabilities may be assessed by the Regional Board for failure to comply, beginning with the date that the violations first occurred, and without further warning.
7. The State Water Resources Control Board adopted regulations (California Code of Regulations, title 23, sections 3891 et seq.) requiring the electronic submittals of information (ESI) for all site cleanup programs, starting January 1, 2005. Currently, all of the information on electronic submittals and GeoTracker contacts can be found on the Internet at the following link: http://www.waterboards.ca.gov/ust/electronic_submittal/index.shtml.

To comply with the above referenced regulation, you are required to upload all technical reports, documents, and well data to GeoTracker by the due dates specified in the Regional Board letters and orders issued to you or for the Site. However, the Regional Board may request that you submit hard copies of selected documents and data in addition to electronic submittal of information to GeoTracker. For your convenience, the GeoTracker Global ID for this site is T10000014333.

8. The Regional Board, under the authority given by Water Code section 13267, subdivision (b)(1), requires you to include a perjury statement in all reports as required by this Order. The perjury statement shall be signed by senior authorized representatives of the City of Torrance; Magellan Aerospace, Middletown, Inc. (formerly known as Aeronca, Inc. formerly known as Aeronca Manufacturing Corporation); Excellon Industries, Inc. (also known as Excellon Automation Company and now known as Excellon Technologies, LLC); Esterline Technologies Corporation; Robinson Helicopter Company; Dasco Engineering Corporation; and Hi-Shear Corporation [also known as Lisi Aerospace] (not by a consultant). The perjury statement shall be in the following format:

"I, [NAME], certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision, in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information

submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

SO ORDERED.

Renee Purdy
Executive Officer

May 12, 2020
Date

Attachment:
Attachment 1 – Site

ATTACHMENT 1 – SITE





Los Angeles Regional Water Quality Control Board

October 6, 2020

CT Corporation System
c/o Esterline Technologies Corporation
500 – 108th Avenue NE,
Suite 1500
Bellevue, Washington 98004

Certified Mail
Return Receipt Requested
Claim No. 7018 2290 0001 8504 0511

Mr. Richard Doyle
Magellan Aerospace, Middletown, Inc.
2320 Wedekind Drive
Middletown, Ohio 45042-2390

Certified Mail
Return Receipt Requested
Claim No. 7018 2290 0001 8504 0528

Mr. Tim A. Goetz
Robinson Helicopter Company
2901 Airport Drive
Torrance, California 90505

Certified Mail
Return Receipt Requested
Claim No. 7018 2290 0001 8504 0535

Mr. Ward Olson
Dasco Engineering Corporation
24747 Crenshaw Boulevard
Torrance, California 90505

Certified Mail
Return Receipt Requested
Claim No. 7018 2290 0001 8504 0542

Mr. Bailey Su
Excellon Technologies, LLC
20001 S. Rancho Way
Rancho Dominguez, California 90220

Certified Mail
Return Receipt Requested
Claim No. 7018 2290 0001 8504 0559

Mr. Christian Darville
Lisi Aerospace/Hi-Shear Corporation
2600 Skypark Drive
Torrance, California 90509-2975

Certified Mail
Return Receipt Requested
Claim No. 7018 2290 0001 8504 0566

IRMA MUÑOZ, CHAIR | RENEE PURDY, EXECUTIVE OFFICER

Mr. Leroy Jackson
City of Torrance
3031 Torrance Boulevard
Torrance, California 90503

Certified Mail
Return Receipt Requested
Claim No. 7018 2290 0001 8504 0573

**SUBJECT: REVIEW OF TECHNICAL WORK PLANS PURSUANT TO CALIFORNIA
WATER CODE SECTION 13267**

**SITE: SKYPARK COMMERCIAL PROPERTIES (ASSESSOR PARCEL NO.
7377-006-906), 24701 – 24777 CRENSHAW BOULEVARD AND 2530,
2540, AND 2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA (SCP
NO. 1499)**

Dear Mr. Doyle, Goetz, Olson, Darville, Su, Jackson, and Representative of Esterline Technologies Corporation:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) staff have reviewed the following work plans:

- “Indoor Air Sampling Work Plan – 24751/24777 Crenshaw Boulevard, Torrance, California,” dated August 25, 2020, prepared by Ramboll US Corporation (Ramboll) on behalf of Esterline Technologies Corporation (Esterline) for Property 1.
- “Indoor Air Sampling Workplan – 24751-24777 Crenshaw Boulevard, Torrance, California,” dated August 25, 2020, prepared by MK Environmental Consulting, Inc. (MK) on behalf of Magellan, Middletown, Inc. (Middletown) for Property 1
- “Vapor Intrusion Investigation Workplan – East Adjacent Properties – Property 2,” dated August 25, 2020, prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Middletown and Robinson Helicopter (RHC) for Property 2 (Property 2 Work Plan).
- “Vapor Intrusion Investigation Workplan – East Adjacent Properties – Property 3,” dated August 25, 2020, prepared by Stantec on behalf of RHC for Property 3 (Property 3 Work Plan).

The two work plans prepared by Ramboll and MK for Property 1 are nearly identical; therefore, for the purposes of this letter those two work plans will be discussed as one (Property 1 Work Plan).

Each work plan was accompanied with cover letters prepared by Cermak & Inglin, LLP (C&I; for Property 1), Lamb and Kawakami, LLP (L&K; for Property 1), and Gordon Rees Scully Mansukhani, LLP (GRSM; for Property 2 and Property 3). C&I and L&K noted that

in submitting the work plans, Esterline and Middletown are not agreeing to implement the work.

Brief summaries of the work plans followed by Regional Board comments and requirements are included below.

SUMMARY OF PROPERTY 1 WORK PLAN

The Property 1 Work Plan proposed the following:

1. Collect up to six indoor air samples in six-liter Summa canisters over an 8-hour period with 1 duplicate sample
2. Collect three outdoor ambient air samples in six-liter Summa canisters over an 8-hour period
3. Install up to six semi-permanent sub-slab soil vapor probes using Cox-Colvin Vapor Pin. Sub-slab soil vapor samples will be collected in Summa canisters collocated with each of the indoor air sample locations
4. Analyze soil vapor samples using USEPA Method TO-15 for volatile organic compounds – tetrachloroethylene (PCE); trichloroethene (TCE); 1,1-dichloroethene (1,1 DCE); and 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)

SUMMARY OF PROPERTY 2 WORK PLAN

The Property 2 Work Plan proposed the following:

1. Collect up to 10 indoor air samples (approximately one for every 5,000 square feet of occupied interior building space) in 6-liter Summa cannisters over an 8- or 10-hour period with 1 duplicate sample.
2. Collect 3 outdoor air samples around the exterior of the buildings with 1 duplicate sample.
3. Install sub-slab vapor monitoring probes using Vapor Pin (or equivalent) with sampling ports collocated with each of the indoor air sample locations. Sub-slab soil vapor samples will be collected in Summa cannisters.
4. Monitor the sampling period with differential pressure meters to assess the role of HVAC operations and building stack effect on vapor migration potential.
5. Analyze samples using USEPA Method TO-15 for the compounds of concern (COCs) – PCE; TCE; and their degradation products cis-1,2 dichloroethene (cis-1,2 DCE); trans-1,2 dichloroethene (trans-1,2 DCE); 1,1 DCE; and vinyl chloride.

6. Compare indoor air, outdoor air, and sub-slab vapor concentrations to the June 2020 update to Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3.

SUMMARY OF PROPERTY 3 WORK PLAN

The Property 3 Work Plan proposed the following:

1. Collect up to 8 indoor air samples (approximately one for every 5,000 square feet of occupied interior building space) in 6-liter Summa cannisters over an 8- or 10-hour period with 1 duplicate sample.
2. Collect 3 outdoor air samples around the exterior of the building with 1 duplicate sample.
3. Install sub-slab vapor monitoring probes using Vapor Pin (or equivalent) with sampling ports collocated with each of the indoor air sample locations. Sub-slab soil vapor samples will be collected in Summa cannisters.
4. Monitor the sampling period with differential pressure meters to assess the role of HVAC operations and building stack effect on vapor migration potential.
5. Analyze samples using USEPA Method TO-15 for the COCs – PCE; TCE; and their degradation products cis-1,2 DCE; trans-1,2 DCE; 1,1 DCE; and vinyl chloride.
6. Compare indoor air, outdoor air, and sub-slab vapor concentrations to the June 2020 update to HERO HHRA Note 3.

REGIONAL BOARD COMMENTS AND REQUIREMENTS

The work plans are approved with the following comments and requirements:

1. The work plans must be conducted in accordance with the methodology outlined in the Department of Toxic Substances Control (DTSC) Vapor Intrusion Guidance titled “Final – Guidance for the Evaluation and Mitigation of subsurface Vapor Intrusion to Indoor Air” (DTSC October 2011), and the “Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion”, prepared by DTSC and California Water Resources Control Boards, dated February 14, 2020.
2. Property 1 Work Plan
 - a. The footprint of the showroom is approximately 40,000 square feet. Consistent with the Property 2 Work Plan and Property 3 Work Plan, eight indoor air samples (approximately one for every 5,000 square feet of occupied interior building space) paired and collocated with sub-slab soil vapor samples, with one duplicate, should be collected within the footprint of the showroom.

- b. The footprint of the existing service portion of the building is approximately 65,000 square feet. Consistent with the Property 2 Work Plan and Property 3 Work Plan, 13 indoor air samples (approximately one for every 5,000 square feet of occupied interior building space) paired and collocated with sub-slab soil vapor samples, with one duplicate, should be collected within the footprint of the existing service portion of the building.
 - c. Although currently unoccupied, the second smaller building shall be sampled to assess and evaluate potential future occupants' risks. The footprint of the second smaller building, located southwest of the larger building on Property 1, is approximately 28,000 square feet. Consistent with the Property 2 Work Plan and Property 3 Work Plan, six indoor air samples (approximately one for every 5,000 square feet of occupied interior building space) paired and collocated with sub-slab soil vapor samples, with one duplicate, should be collected.
3. Property 2 Work Plan
 - a. Consistent with the proposed criteria (one sample for every 5,000 square feet), one indoor air and a collocated sub-slab soil vapor sample located within the footprint of trapezoidal modular building along the northeast facing portion of the main building shall be collected.
4. All indoor air, ambient outdoor air, and sub-slab vapor samples shall be analyzed using USEPA Method TO-15 for the full suite of VOCs. Laboratory reporting limits for each analyte shall be sufficiently low to adequately evaluate and assess risk.
5. Indoor air, ambient outdoor air, and sub-slab vapor samples shall be evaluated in accordance with the June 2020 update to HERO HHRA Note 3 and/or the 2019 San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels.
6. Indoor air data should also be evaluated in accordance with the DTSC HERO HHRA Note 5, which identifies the EPA Region 9 Interim Indoor Air Response Action Levels for indoor air concentrations of TCE under differing exposure scenarios. If necessary, any interim measures and/or response actions should adhere to the DTSC HERO HHRA Note 5.
7. Notify the Regional Board case manager at least ten (10) working days in advance of field work.
8. Submit technical reports for the implementation of the Property 1 Work Plan, Property 2 Work Plan, and Property 3 Work Plan by **January 20, 2021**. The technical reports shall include detailed descriptions of current uses and detailed floor plans and schematics of site buildings. All indoor air, ambient outdoor air, and sub-slab vapor sample concentrations shall be reported in units of microgram per cubic meter.

The above requirement for submittal of technical reports constitutes an amendment to the requirements of the California Water Code section 13267 Order originally dated May 12, 2020. All other aspects of the Order originally dated May 12, 2020, and the amendments thereto, remain in full force and effect. The required technical reports are necessary to investigate the characteristics of and extent of the discharges of waste at the site and to evaluate cleanup alternatives. Therefore, the burden, including costs, of the reports bears a reasonable relationship to the need for the report and benefits to be obtained. Pursuant to section 13268 of the California Water Code, failure to submit the required technical report by the specified due date may result in civil liability administratively imposed by the Regional Board in an amount up to one thousand dollars (\$1000) for each day each technical report is not received.

If you have any questions regarding this letter, please contact Mr. Kevin Lin at (213) 576-6781 or via email at kevin.lin@waterboards.ca.gov, or contact Ms. Jillian Ly, Unit IV Chief, at (213) 576-6664 or via email at jillian.ly@waterboards.ca.gov.

Sincerely,

R Purdy
Digitally signed by R Purdy
Date: 2020.10.05 20:45:58
-07'00'
Water Boards

Renee Purdy
Executive Officer

cc:

Aram Chaparyan, City of Torrance
Travis Van Ligten, Rutan & Tucker, LLP
Richard Montevideo, Rutan & Tucker, LLP
Sonja A. Inglin, Cermak & Inglin, LLC
Patrick L. Rendon, Lamb and Kawakami, LLP
William J. Beverly, Law Offices of William J. Beverly
Brian M. Ledger, Gordon Rees Scully Mansukhani, LLP
Thomas Schmidt, Hamrick & Evans, LLP
David L. Evans, Hamrick & Evans, LLP



Los Angeles Regional Water Quality Control Board

February 24, 2021

Mr. Aram Chaparyan
City Manager
City of Torrance
3031 Torrance Boulevard
Torrance, California 90503

Certified Mail
Return Receipt Requested
Claim No. 7020 1290 0001 8571 7190

Mr. Christian Darville
Lisi Aerospace/Hi-Shear Corporation
2600 Skypark Drive
Torrance, California 90509-2975

Certified Mail
Return Receipt Requested
Claim No. 7020 1290 0001 8571 7206

Mr. Richard Doyle
Magellan Aerospace, Middletown, Inc.
2320 Wedekind Drive
Middletown, Ohio 45042-2390

Certified Mail
Return Receipt Requested
Claim No. 7020 1290 0001 8571 7213

Mr. Bailey Su
Excellon Technologies, LLC
20001 S. Rancho Way
Rancho Dominguez, California 90220

Certified Mail
Return Receipt Requested
Claim No. 7020 1290 0001 8571 7220

CT Corporation System
c/o Esterline Technologies Corporation
500 – 108th Avenue NE,
Suite 1500
Bellevue, Washington 98004

Certified Mail
Return Receipt Requested
Claim No. 7020 1290 0001 8571 7237

Mr. Tim A. Goetz
Robinson Helicopter Company
2901 Airport Drive
Torrance, California 90505

Certified Mail
Return Receipt Requested
Claim No. 7020 1290 0001 8571 7244

Mr. Ward Olson
Dasco Engineering Corporation
24747 Crenshaw Boulevard
Torrance, California 90505

Certified Mail
Return Receipt Requested
Claim No. 7020 1290 0001 8571 7251

LAWRENCE YEE, CHAIR | RENEE PURDY, EXECUTIVE OFFICER

SUBJECT: RESPONSE TO TIME EXTENSION REQUESTS FOR SUBMITTAL OF TECHNICAL REPORTS PURSUANT TO CALIFORNIA WATER CODE SECTION 13267

SITE: SKYPARK COMMERCIAL PROPERTIES (ASSESSOR PARCEL NO. 7377-006-906), 24701 – 24777 CRENSHAW BOULEVARD AND 2530, 2540, AND 2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA (SCP NO. 1499)

Dear Mr. Chaparyan, et al.:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board) staff have reviewed the following letters dated January 19, 2021:

1. "Investigative Order No R4-2020-0035/California Water Code Section 13267 Order ("Order") - Request for Extension of Deadline to Submit Technical Report for Property 1," prepared by Cermak & Inglin, LLP on behalf of Esterline Technologies Corporation for Property 1 of the referenced site (Site).
2. "Request for Extension for Vapor Intrusion Investigation Report Submittal: East Adjacent Properties – Property 2, 24701, 24707, and 24747 Crenshaw Boulevard, Torrance, CA 90505 (Investigative Order No. R4-2020-0035)," prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Magellan Aerospace, Middletown, Inc. and Robinson Helicopter Company (Robinson) for Property 2 of the Site.
3. "Request for Extension for Vapor Intrusion Investigation Report Submittal: East Adjacent Properties – Property 3, 2530 and 2540 Skypark Dr., Torrance, CA 90505 (Investigative Order No. R4-2020-0035)," prepared by Stantec on behalf of Robinson for Property 3 of the Site.

The letters request an extension to submit the indoor air sampling and/or vapor intrusion investigation reports for Property 1, Property 2, and Property 3. The initial due date for the technical reports was January 20, 2021 as required in the Regional Water Board's California Water Code (CWC) Section 13267 Order amended on October 6, 2020.

The letters provide the following reasons for the extension request:

1. To allow for receipt and analysis of the analytical results of the sampling completed in early January, additional time is needed to submit the indoor air sampling report for Property 1.
2. Due to delays in negotiating and securing an access agreement and non-disclosure agreement between Robinson and DASCO (one of the Property 2 building tenants) and coordination efforts to conduct investigation at Property 2 and Property 3 concurrently, additional time is needed to submit the vapor intrusion report for Property 2 and Property 3.

After reviewing your request, additional information and file documents for this Site, the Regional Water Board has made the following determinations:

1. The Regional Water Board approves the extension request for submitting the indoor air sampling report for Property 1 from January 20, 2021 to **February 12, 2021**.
2. The Regional Water Board approves the extension request for the submittal of vapor intrusion reports for Property 2 and Property 3 from January 20, 2021 to **March 31, 2021**.

The above due date extensions for submittal of technical reports constitute an amendment to the requirements of the California Water Code section 13267 Order originally dated May 12, 2020. All other aspects of the Order originally dated May 12, 2020, and the amendments thereto, remain in full force and effect. Pursuant to section 13268 of the California Water Code, failure to submit the required technical report by the specified due date may result in civil liability administratively imposed by the Regional Water Board in an amount up to one thousand dollars (\$1,000) for each day each technical report is not received.

If you have any questions regarding this letter, please contact Mr. Kevin Lin at (213) 576-6781 or via email at kevin.lin@waterboards.ca.gov, or contact Ms. Jillian Ly, Unit IV Chief, at (213) 576-6664 or via email at jillian.ly@waterboards.ca.gov.

Sincerely,

 Digitally signed by R Purdy
Date: 2021.02.24 06:58:00 -08'00'

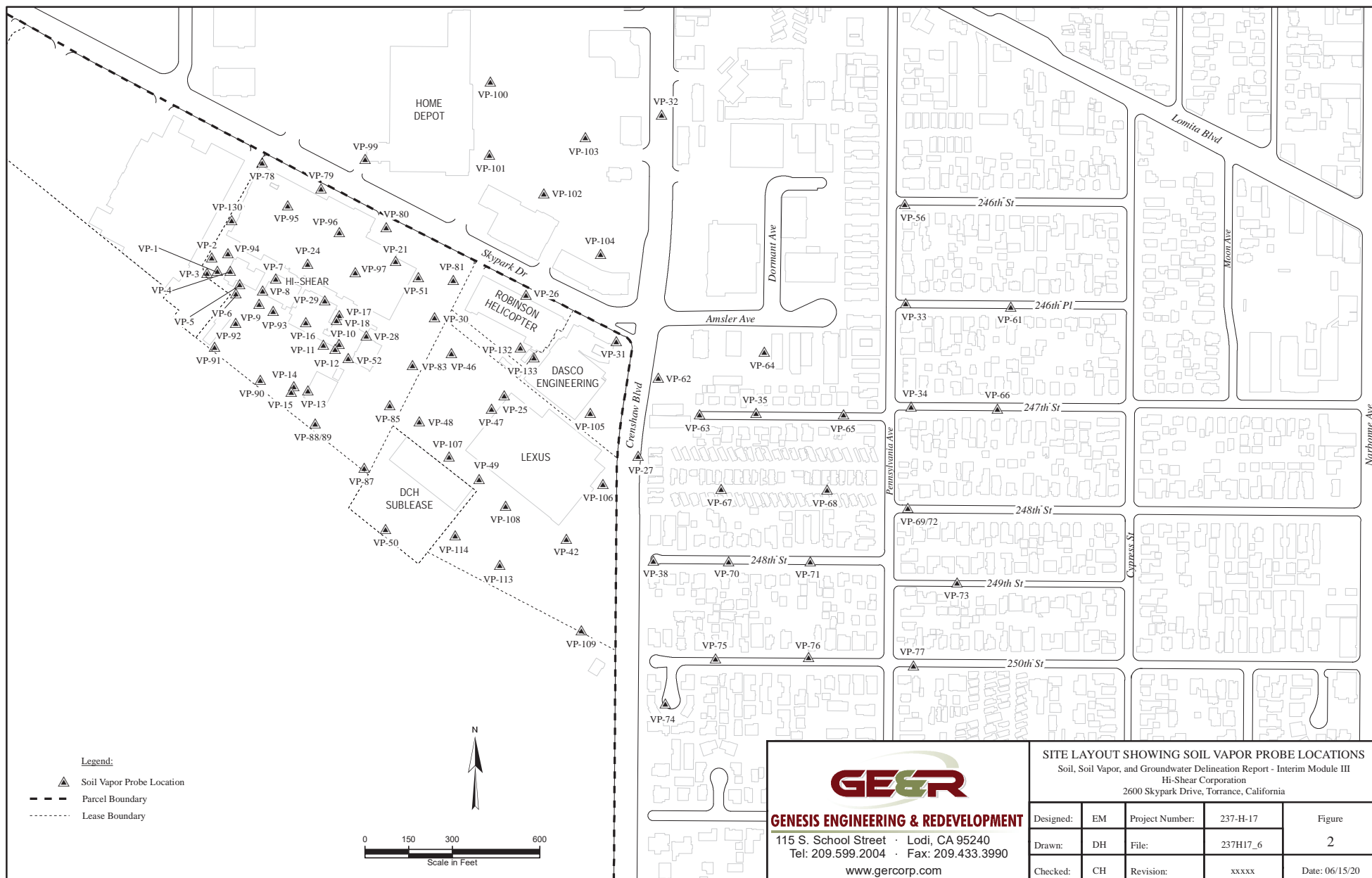
Renee Purdy
Executive Officer


cc:

Dmitriy Ginzburg, State Water Board Division of Drinking Water
Joseph Liles, Water Replenishment District
Carla Dillon, City of Lomita
Ryan Smoot, City of Lomita
Travis Van Ligten, Rutan & Tucker, LLP
Richard Montevideo, Rutan & Tucker, LLP
Sonja A. Inglin, Cermak & Inglin, LLC
Patrick L. Rendon, Lamb and Kawakami, LLP
William J. Beverly, Law Offices of William J. Beverly
Brian M. Ledger, Gordon Rees Scully Mansukhani, LLP
Thomas Schmidt, Hamrick & Evans, LLP
David L. Evans, Hamrick & Evans, LLP
Steve Van der Hoven, Genesis Engineering & Redevelopment

APPENDIX B

Historical Data





GENESIS ENGINEERING & REDEVELOPMENT
 115 S. School Street · Lodi, CA 95240
 Tel: 209.599.2004 · Fax: 209.433.3990
www.gercorp.com

SITE LAYOUT SHOWING SOIL VAPOR PROBE LOCATIONS
 Soil, Soil Vapor, and Groundwater Delineation Report - Interim Module III
 Hi-Shear Corporation
 2600 Skypark Drive, Torrance, California

Designed:	EM	Project Number:	237-H-17	Figure
Drawn:	DH	File:	237H17_6	2
Checked:	CH	Revision:	xxxxx	Date: 06/15/20

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report
COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-25	5	8/9/14	26,200	7,930	<20	<20	472	<20
		3/3/20	34,200	1,560	<20	<20	199	<20
	15	8/9/14	18,600	16,000	1,020	<20	<20	<20
		3/5/20	89,400	11,400	225	<20	169	<20
	25	8/9/14	980,000	403,000	29,200	199	40,300	<20
		3/3/20	NA	132,000	6,850	176	24,200	<20
		Summa	720,000	140,000	4,400	<330	15,000	<330
	45	8/9/14	1,500,000	784,000	40,900	31	59,000	144
		DUP	1,540,000	768,000	40,600	<20	57,300	144
		3/5/20	543,000	238,000	16,200	286	44,300	36
	55	8/9/14	995,000	677,000	28,600	709	90,000	<20
		3/5/20	685,000	377,000	20,400	351	7,180	48
65	8/9/14	1,270,000	874,000	34,900	115	124,000	208	
	3/5/20	548,000	341,000	19,600	347	7,420	47	
85	8/9/14	1,140,000	853,000	21,800	577	113,000	<20	
	3/5/20	475,000	321,000	19,000	344	7,600	49	
VP-26	5	8/9/14	2,620	1,000	<20	<20	<0.020	<20
		5/7/20	2,700	60	<31	<31	<78	<31
	15	8/9/14	13,200	2,880	<20	<20	<0.020	<20
		5/7/20	8,900	490	<34	<34	<84	<34
	25	8/9/14	24,600	14,700	43	<20	1,180	<20
		5/7/20	37,000	30,000	<3,100	<3,100	<7,800	<3,100
	45	8/9/14	19,900	14,100	<20	<20	935	<20
		5/7/20	67,000	100,000	230	20	1,400	<33
65	8/9/14	66,600	134,000	<20	<20	2,020	<20	
	5/7/20	97,000	190,000	<3,300	<3,300	1,600	<3,300	
85	8/9/14	112,000	173,000	260	<20	2,380	<20	
	5/7/20	87,000	330,000	<3,600	<3,600	1,700	<3,600	
	DUP	120,000	450,000	<3,200	<3,200	2,200	<8,000	
Commercial Screening Level (α=0.03)			67	100	NA	NA	10,333	5.3

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report
COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-31	5	8/9/14	3,760	16,000	<20	<20	<0.020	<20
		1/31/20	38	<20	<20	<20	<20	<20
		Summa	<5.2	<5.8	<3.5	<3.1	<3.1	<4.4
	15	8/9/14	2,350	1,660	<20	<20	<0.020	<20
		1/31/20	1,500	1,440	<20	<20	186	<20
	25	8/9/14	3,910	10,900	<20	<20	1,270	<20
		1/31/20	3,560	6,260	<20	<20	918	<20
	45	8/9/14	10,900	43,600	<20	<20	3,780	<20
		1/31/20	14,600	66,400	216	<20	5,270	<20
	65	8/9/14	18,200	50,700	95	<20	6,730	<20
		1/31/20	25,800	119,000	268	15	7,290	<20
	85	8/9/14	22,200	76,900	<20	<20	5,680	<20
		1/31/20	33,300	183,000	393	94	7,220	<20
VP-42	5	6/7/16	53,100	1,510	<8	<8	6,030	<8
		1/22/19	Not Sampled					
	15	6/7/16	8,180	1,110	<8	<8	31,900	<8
		1/22/19	Not Sampled					
	25	6/7/16	13,700	583	<8	<8	71,900	<8
		1/22/19	Not Sampled					
	45	6/7/16	13,000	1,510	<8	<8	85,800	<8
		1/22/19	Not Sampled					
		1/23/20	10,200	377	<20	<20	98,101	<21
	55	6/7/16	3,480	261	<8	<8	97,100	<8
		1/22/19	Not Sampled					
Commercial Screening Level ($\alpha=0.03$)			67	100	NA	NA	10,333	5.3

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report
COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-46	5	6/9/16	18,500	29,600	12,300	3,950	8,670	413
		1/27/20	22,900	42,300	13,100	1,920	854	142
		DUP	23,700	41,900	13,000	2,000	912	131
		15	6/9/16	27,900	45,600	11,000	5,480	7,380
	1/27/20		24,200	18,600	5,650	1,040	671	23
		25	5/31/16	775,000	192,000	15,300	2,530	12,000
	1/27/20		94,300	24,900	5,060	1,370	1,681	31
		45	5/31/16	781,000	170,000	14,100	2,260	11,400
	1/27/20		222,000	71,300	8,320	1,090	7,470	31
		65	5/31/16	1,400,000	348,000	17,200	1,800	13,900
	1/27/20		483,000	170,000	15,800	826	13,500	29
		85	5/31/16	1,430,000	417,000	13,800	1,790	6,990
	1/27/20		494,000	129,000	11,300	701	8,190	<20
	5	6/8/16	6,420	4,920	94	<8	6,450	<8
3/3/20		3,910	1,420	<20	<20	3,400	<20	
VP-47	15	6/8/16	4,780	5,070	<8	<8	9,720	<8
		3/3/20	47,000	21,000	152	22	63,700	<20
		25	6/8/16	242,000	241,000	8,440	154	258,000
	3/3/20		593,000	234,000	6,570	194	229,000	32
		45	6/8/16	886,000	786,000	19,600	827	293,000
	DUP		884,000	773,000	17,900	773	276,000	95
	3/4/20		946,000	584,000	21,500	432	247,000	80
		65	6/8/16	1,180,000	907,000	25,900	847	358,000
	3/4/20		86,500	64,600	3,180	61	45,500	24
		85	6/8/16	1,350,000	1,040,000	29,000	857	400,000
	3/4/20		995,000	642,000	26,600	510	391,000	97
Commercial Screening Level (α=0.03)			67	100	NA	NA	10,333	5.3

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report
COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-48	5	6/1/16	115,000	38,200	88	<8	204,000	<8
		1/22/20	8,230	5,840	<20	<20	12,300	<20
		DUP	7,250	6,000	<20	22	14,700	<20
	15	6/1/16	665,000	203,000	3,000	726	453,000	<8
		1/22/20	18,200	3,820	136	84	58,100	57
	25	6/1/16	927,000	418,000	7,470	3,200	1,470,000	80
		1/22/20	65,000	49,300	2,000	433	515,000	<20
		Summa	520,000	600,000	2,900	600	2,800,000	25
	45	6/3/16	2,170,000	1,080,000	6,960	2,930	2,360,000	111
		1/22/20	321,000	203,000	4,710	1,150	802,000	56
	65	6/3/16	8,770,000	1,150,000	6,890	1,370	3,610,000	120
		1/24/20	11,300,000	846,000	6,960	1,010	3,480,000	104
		DUP	16,000,000	1,160,000	6,430	837	3,880,000	95
	85	6/3/16	25,300,000	1,650,000	8,630	1,260	4,130,000	125
		1/24/20	23,300,000	1,770,000	7,170	940	5,350,000	112
	VP-49	5	6/3/16	17,700,000	79	957	130	5,070,000
1/22/20			593,000	21,700	79	40	1,470,000	70
15		6/7/16	27,900,000	899,000	1,400	<8	6,990,000	88
		1/22/20	1,860,000	89,400	753	137	3,800,000	112
25		6/7/16	11,500,000	729,000	2,980	<8	13,600,000	157
		1/22/20	5,470,000	237,000	3,760	273	9,560,000	171
45		6/7/16	5,880,000	588,000	4,380	<8	13,300,000	146
		1/22/20	3,450,000	63,600	9,880	<20	1,300,000	189
		Summa	300,000	200,000	6,900	<390	1,600,000	<570
65		6/7/16	27,700,000	1,010,000	2,950	<8	9,180,000	175
		DUP	22,000,000	818,000	2,840	<8	7,430,000	168
		1/22/20	6,440,000	53,400	618	147	453,000	58
85		6/7/16	35,900,000	1,100,000	1,800	293	6,100,000	108
		1/22/20	8,040,000	212,000	1,630	278	2,520,000	146
Commercial Screening Level (α=0.03)			67	100	NA	NA	10,333	5.3

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-50	5	6/8/16	36,100	7,140	<0.008	<8	278,000	<8
		1/24/20	5,900	10,100	<20	<20	578,000	<20
		Summa	7,700	<630	<380	<330	100,000	<480
	15	6/8/16	201,000	60,700	156	<8	4,160,000	35
		1/24/20	724,000	86,200	22	46	3,000,000	28
	25	6/8/16	834,000	239,000	146	<8	17,500,000	34
		1/24/20	3,950,000	338,000	81	92	6,650,000	41
	45	6/9/16	1,970,000	322,000	358	<8	12,500,000	61
		1/24/20	5,140,000	444,000	597	246	13,700,000	97
	53	6/9/16	4,940,000	893,000	3,380	<8	20,600,000	76
		DUP	6,060,000	976,000	3,480	<8	22,600,000	113
		1/24/20	71,500,000	4,100,000	3,590	618	86,700,000	301
VP-99	5	4/22/20	<20	<20	<20	<20	<20	<20
	15	4/22/20	125	<20	<20	<20	<20	<20
	30	4/22/20	296	<20	<20	<20	<20	<20
	45	4/22/20	256	<20	<20	<20	<20	<20
	65	4/22/20	486	<20	<20	<20	<20	<20
	80	4/22/20	471	<20	<20	<20	<20	<20
VP-100	5	4/21/20	<20	<20	<20	<20	<20	<20
	15	4/21/20	<20	<20	<20	<20	<20	<20
	30	4/21/20	<20	<20	<20	<20	<20	<20
	45	4/21/20	<20	<20	<20	<20	<20	<20
	65	4/21/20	<20	<20	<20	<20	<20	<20
	80	4/21/20	<20	<20	<20	<20	<20	<20
Commercial Screening Level ($\alpha=0.03$)			67	100	NA	NA	10,333	5.3

Table 2

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-101	5	4/22/20	<20	<20	<20	<20	<20	<20
	15	4/22/20	<20	<20	<20	<20	<20	<20
	30	4/22/20	36	<20	<20	<20	<20	<20
	45	4/22/20	250	317	<20	<20	<20	<20
		REP	262	305	<20	<20	<20	<20
	65	4/22/20	290	315	<20	<20	<20	<20
	80	4/22/20	290	308	<20	<20	<20	<20
VP-102	5	4/21/20	No Flow					
		5/7/20	32	<34	<34	<34	<85	<34
	15	4/21/20	25	<20	<20	<20	<20	<20
	30	4/21/20	1,250	2,370	<20	<20	<20	<20
	45	4/21/20	1,460	2,850	<20	<20	<20	<20
	65	4/21/20	1,770	3,260	<20	<20	<20	<20
	80	4/21/20	1,490	2,670	<20	<20	<20	<20
Commercial Screening Level ($\alpha=0.03$)			67	100	NA	NA	10,333	5.3

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report
COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-103	5	4/21/20	<20	<20	<20	<20	<20	<20
	15	4/21/20	<20	<20	<20	<20	<20	<20
	30	4/21/20	<20	<20	<20	<20	<20	<20
	45	4/21/20	<20	<20	<20	<20	<20	<20
	65	4/21/20 REP	<20 98	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20
	80	4/21/20	38	<20	<20	<20	<20	<20
VP-104	5	4/22/20 5/7/20	79	290	<32	<32	<80	<32
	15	4/22/20	649	8,110	<20	<20	<20	<20
	30	4/22/20	2,550	15,400	<20	<20	<20	<20
	45	4/22/20	5,160	32,600	<20	<20	<20	<20
	65	4/22/20	6,720	58,400	<20	21	<20	<20
	80	4/22/20	6,350	65,600	25	<20	<20	<20
VP-105	5	12/26/19	320	470	7	<2.0	28	<1.3
	15	12/26/19	<3.4	<2.7	<2.0	<2.0	<2.0	<1.3
	30	12/26/19	2,500	3,700	22	<20	6,600	<13
	45	12/26/19 REP	13 3,200	19 3,600	<2.0 <9.9	<2.0 <9.9	21 3,300	<1.3 <6.4
VP-106	5	3/3/20	201	<20	<20	<20	102	<20
	15	3/3/20	582	119	<20	<20	1,100	<20
	30	3/3/20 REP	1,540 1550	89 111	<20 <20	<20 <20	16,900 18,800	<20 <20
	45	3/5/20 REP	2,310 3050	654 582	30.0 <20	<20 <20	11,100 15,100	<20 <20
	53	3/5/20 REP	1,260 9200	293 1200	<20 <320	<20 <320	674 13,000	<20 <320
	Commercial Screening Level ($\alpha=0.03$)		67	100	NA	NA	10,333	5.3

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-107	5	1/28/20	46,700	11,000	<20	<20	53,600	<20
		DUP	49,500	11,400	<20	<20	56,200	<20
	15	1/28/20	46,300	22,000	108	32	29,600	<20
	25	1/28/20	2,310,000	305,000	2,270	425	5,030,000	153
	30	1/28/20	1,820,000	325,000	2,170	459	5,440,000	143
	45	1/28/20	727,000	38,000	1,880	456	469,000	125
65	1/28/20	5,490,000	235,000	1,850	451	2,890,000	138	
VP-108	5	1/27/20	25,400	1,580	60	<20	134,000	<20
		Summa	6,400	<590	<360	<310	140,000	<450
	15	1/27/20	267,000	21,000	531	41	1,880,000	28
	30	1/27/20	10,500,000	120,000	5,450	291	9,790,000	258
	40	1/27/20	1,770,000	22,900	1,440	61	5,710,000	22
	54	1/27/20	83,500	2,770	81	<20	86,200	<20
VP-109	5	1/31/20	5,590	591	<20	<20	46	<20
	15	3/2/20	2,330	47	<20	<20	<20	<20
	25	3/2/20	159	23	72	<20	72	<20
	45	3/2/20	1,260	34	5,860	<20	5,860	<20
Summa		1,500	<320	<320	<320	4,200	<320	
Commercial Screening Level (α=0.03)			67	100	NA	NA	10,333	5.3

Table 2
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-113	5	3/2/20	13,700	237	<20	<20	6,120	<20
		REP	14,500	251	<20	<20	9,090	<20
	15	3/2/20	12,800	1,400	<20	<20	125,000	<20
	30	3/2/20	300,000	20,600	<20	<20	780,000	<20
	45	3/2/20	1,640,000	55,700	179	<20	2,110,000	<20
VP-114	60	3/2/20	7,690,000	150,000	1,440	363	4,630,000	<20
	5	3/3/20	19,800	877	<20	<20	79,000	<20
	15	3/3/20	658,000	16,400	110	<20	3,170,000	<20
		REP	25,800,000	15,800	103	<20	26,100,000	40
	30	3/3/20	14,000,000	126,000	2,000	320	16,800,000	84
VP-132	45	3/3/20	26,800,000	231,000	5,260	737	22,800,000	256
	5	4/23/20	2,200	596	30	<20	<20	<20
	15	4/23/20	18,800	1,630	125	<20	80	<20
	30	4/23/20	484,000	35,800	9,160	230	1,200	<20
		REP	456,000	33,900	8,790	223	1,450	<20
	45	4/23/20	31,200	8,850	2,310	49	1,560	<20
	65	4/23/20	865,000	375,000	10,600	396	16,400	<20
VP-132	80	4/23/20	881,000	424,000	11,200	419	19,500	<20
Commercial Screening Level ($\alpha=0.03$)			67	100	NA	NA	10,333	5.3

Table 2

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

COPC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-133	5	12/26/19	10	18	<2.0	<2.0	<2.0	<1.3
	15	12/26/19	470	300	30	<2.0	26	<1.3
	30	12/26/19	98,000	22,000	13,000	320	1,800	<51
	45	12/26/19	150,000	85,000	12,000	430	7,500	<51
	65	12/26/19	250,000	260,000	7,100	280	19,000	<51
	85	12/26/19	130,000	160,000	4,000	180	12,000	<20
		DUP-1	180,000	280,000	5,700	240	19,000	21
Commercial Screening Level ($\alpha=0.03$)			67	100	NA	NA	10,333	5.3

NOTES:

- "feet bgs" - feet below ground surface
- "PCE" - tetrachloroethene
- "TCE" - trichloroethene
- "cis-1,2-DCE" - cis-1,2-dichloroethene
- "NA" - not analyzed
- "ND" - Non-detect
- "trans-1,2-DCE" - trans-1,2-dichloroethene
- "1,1-DCE" - 1,1-dichloroethene
- **"Bold"** - concentration exceeds the commercial screening level
- Screening levels obtained from HHRA Note No. 3 (April 2019) or EPA Region 9 RSL (April 2019) with attenuation factor of 0.03



GENESIS ENGINEERING & REDEVELOPMENT

Table 2B
Hi-Shear Corporation Project
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report
Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																				
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM	
VP-25	5	8/9/14	<20	187	<20	<20	<20	<20	<20	408	<20	584	<20	<20	<20	<20	<100	<20	<20	<20	<20	<20	
		3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	106	<60	<20	<40	<40	<40	
	15	8/9/14	<20	215	<20	<20	<20	<20	<20	104	<20	66	<20	<20	<20	<20	<100	<20	<20	<20	<20	<20	<20
		3/3/20	<20	36	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	187	<60	<20	<40	<40	<40	<40
	25	8/9/14	<20	763	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,690	<20	<20	<20	<20	<20	<20
		3/3/20	<20	326	<20	43	<20	<20	<20	605	<20	<20	<20	<40	<20	<20	<20	2,430	<60	<20	<40	<40	72
		Summa	<820	220	<1600	<820	<820	<820	<820	390	<820	<820	<820	<820	<820	<820	<820	1,700	<1600	--	<820	<1600	<820
	45	8/9/14	<20	931	<20	<20	133	690	<20	78	<20	<20	<20	<20	<20	<20	3,370	<20	153	<20	<20	<20	<20
		DUP	<20	907	<20	<20	146	690	<20	<20	<20	<20	<20	<20	<20	<20	3,200	<20	151	<20	<20	<20	<20
		3/5/20	22	536	<20	1,260	62	<20	1,010	<20	<20	<20	<40	<20	<20	<20	5,090	<60	103	<40	<40	<40	177
	55	8/9/14	<20	1,020	<20	8,160	518	28,600	87	<20	<20	<20	<20	2,320	<20	<20	<100	<20	140	<20	<20	<20	<20
		3/5/20	37	580	<20	1,040	126	<20	1,050	<20	<20	<20	<40	<20	<20	<20	6,380	<60	127	<40	<40	<40	228
	65	8/9/14	141	884	<20	<20	909	<20	589	77	<20	<20	<20	<20	<20	<20	11,100	<20	185	<20	<20	<20	235
3/5/20		43	575	<20	1,430	148	<20	1,010	<20	<20	<20	<40	<20	<20	<20	6,320	<60	117	<40	<40	<40	234	
85	8/9/14	<20	924	<20	<20	754	<20	81	<20	<20	<20	<20	2,410	<20	<20	9,550	<20	108	<20	<20	<20	28	
	3/5/20	43	564	<20	1,060	186	<20	992	<20	<20	<20	<40	<20	<20	<20	7,260	<60	114	<40	<40	<40	241	
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667	



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Table 2B
Hi-Shear Corporation Project
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-26	5	5/16/11	<20	329	<20	<20	<20	<20	2,530	<20	<20	<20	<20	<20	<20	<20	389	<20	<20	<20	<20	<20
		5/7/20	<78	<78	<160	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78	<78	620	<160	--	--	<160	<78
	15	5/16/11	<20	6,020	<20	<20	16,800	<20	27,800	<20	<20	<20	<20	<20	<20	<20	9,800	<20	<20	<20	<20	<20
		5/7/20	<84	<84	<170	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84	<84	860	<170	--	--	<170	<84
	30	5/16/11	<20	2,270	<20	<20	16,600	<20	4,200	<20	<20	<20	<20	<20	<20	<20	219	<20	<20	<20	<20	<20
		5/7/20	<7,800	<7,800	<10,000	<7,800	<7,800	<7,800	<7,800	<1,000	<1,000	<1,000	<7,800	<1,000	<1,000	<1,000	3,900	<10,000	--	--	<10,000	<7,800
	45	5/16/11	<20	<20	<20	<20	12,900	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
		5/7/20	<82	2,400	<160	<82	<82	<82	<82	<82	<82	<82	<82	<82	<82	<82	7,400	<160	--	--	<160	33
	65	5/16/11	<20	112	<20	<20	3,340	<20	108	<20	<20	<20	<20	<20	<20	<20	106	<20	<20	<20	<20	<20
		5/7/20	<8,400	2,800	<11,000	<8,400	<8,400	<8,400	<8,400	<0,400	<0,400	<0,400	<8,400	<0,400	<0,400	<0,400	11,000	<11,000	--	--	<11,000	<8,400
	85	5/16/11																				
		5/7/20	<9,000	2,100	<10,000	<9,000	<9,000	<9,000	<9,000	<0,000	<0,000	<0,000	<9,000	<0,000	<0,000	<0,000	8,400	<10,000	--	--	<10,000	<9,000
		DUP	<8,000	3,000	<10,000	<8,000	<8,000	<8,000	<8,000	<0,000	<0,000	<0,000	<8,000	<0,000	<0,000	<0,000	11,000	<10,000	--	--	<10,000	<8,000
	Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57



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Table 2B
Hi-Shear Corporation Project
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-31	5	8/9/14	<20	167	<20	<20	<20	<20	<20	132	<20	104	<20	<20	<20	<20	14,800	<20	<20	<20	<20	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	569	<60	<20	<40	<40	<40
		Summa	<5.8	<3.8	<3.7	<4.3	<4.3	<3.2	<4.3	<6.1	<5	<6.6	<5.8	<4.6	<3.5	<4.6	180	<38	NS	<17	<8.9	<4.6
	15	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,770	<20	<20	<20	<20	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	6,930	<60	<20	<40	<40	21
	25	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	12,600	<20	<20	<20	<20	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	11,400	<60	<20	<40	<40	60
	45	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	15,000	<20	<20	<20	<20	<20
		1/31/20	<20	82	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	28,800	<60	<20	<40	<40	134
	65	8/9/14	<20	188	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	29,500	<20	<20	<20	<20	<20
		1/31/20	<20	141	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	37,100	<60	<20	<40	<40	202
	85	8/9/14	<20	270	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	29,400	<20	<20	<20	<20	<20
		1/31/20	<20	157	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	48,300	<60	<20	<40	<40	194
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Table 2B
Hi-Shear Corporation Project
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report
Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-42	5	6/7/16	71	<8	<8	<8	577	<8	<8	<8	<8	<8	<8	<8	<8	<8	892	<8	<8	<8	<8	<8
		6/7/16	<8	<8	<8	<8	186	<8	<8	<8	<8	<8	<8	<8	<8	<8	3,920	<8	<8	<8	<8	324
	25	6/7/16	<8	<8	<8	<8	229	<8	<8	<8	<8	<8	<8	<8	<8	<8	6,090	<8	<8	<8	<8	709
		6/7/16 1/22/20	<8 <20	195 33	<8 <20	<8 <20	459 <20	<8 <20	<8 <20	92 <20	<8 <20	<8 <20	<8 <40	<8 <20	<8 <20	<8 <20	2,630 5,910	<8 <60	<8 <20	<8 <40	<8 <40	233 687
	55	6/7/16	<8	<8	<8	<8	44	<8	<8	<8	<8	<8	<8	<8	<8	<8	3,640	<8	<8	<8	<8	311
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Table 2B
Hi-Shear Corporation Project
Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-46	5	6/9/16	<8	156	<8	<8	116	<8	<8	32	<8	86	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8
		1/27/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	<40	<60	<20	<40	<40	<40
		DUP	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	<40	<60	<20	<40	<40	<40
	15	6/9/16	<8	203	<8	<8	81	<8	<8	38	<8	88	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8
		1/27/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	89	<60	<20	<40	<40	<40
	25	5/31/16	<8	366	<8	<8	49	<8	<8	<8	<8	<8	<8	<8	<8	<8	2,250	<8	100	<8	<8	<8
		1/27/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	548	<60	<20	<40	<40	<40
	45	5/31/16	<8	351	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	2,050	<8	104	<8	<8	<8
		1/27/20	<20	<20	<20	<20	<20	<20	41	<20	<20	<20	<40	<20	<20	<20	2,390	<60	<20	<40	<40	30
	65	5/31/16	<8	673	<8	<8	105	<8	<8	<8	<8	<8	<8	<8	<8	<8	6,400	<8	181	<8	<8	<8
		1/27/20	<20	370	<20	<20	30	<20	156	<20	<20	<20	<40	<20	<20	<20	3,300	<60	174	<40	<40	42
	80	5/31/16	<8	774	<8	<8	121	<8	<8	<8	<8	<8	<8	<8	<8	<8	7,230	<8	220	<8	<8	<8
		1/27/20	<20	298	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	1,600	<60	141	<40	<40	24
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-47	5	6/8/16	<8	128	<8	<8	56	<8	<8	23	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8
		3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	<40	<60	<20	<40	<40	<40
	15	6/8/16	<8	43	<8	<8	20	<8	<8	18	<8	<8	<8	<8	<8	<8	<40	<8	<8	<8	<8	<8
		3/3/20	<20	25	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	1,480	<60	<20	<40	<40	121
	25	6/8/16	26	458	<8	<8	94	<8	10	<8	<8	<8	<8	<8	<8	<8	3,920	<8	22	<8	<8	275
		3/3/20	26	276	23	<20	27	<20	225	<20	<20	<20	<40	<20	<20	<20	3,660	<60	<20	<40	<40	260
	45	6/8/16	140	988	<8	<8	1,600	43	66	<8	<8	<8	<8	<8	<8	<8	6,810	<8	97	<8	<8	316
		DUP	137	932	<8	<8	1,590	40	66	<8	<8	<8	<8	<8	<8	<8	6,450	<8	95	<8	<8	28
		3/4/20	46	698	56	32	167	<20	442	<20	<20	<20	<40	<20	<20	<20	7,430	<60	186	<40	<40	296
	65	6/8/16	209	900	<8	51	3,110	<8	71	<8	<8	<8	<8	<8	<8	<8	7,680	<8	171	<8	<8	341
		3/4/20	<20	81	<20	<20	52	<20	37	<20	<20	<20	<40	<20	<20	<20	383	<60	<20	<40	<40	42
	85	6/8/16	227	908	<8	68	3,510	<8	76	<8	<8	<8	<8	<8	<8	<8	8,020	<8	187	<8	<8	351
		3/4/20	158	801	45	78	468	<20	671	<20	<20	<20	<40	<20	<20	<20	6,590	<60	<20	<40	<40	400
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-48	5	6/1/16	41	<8	<8	<8	3,070	<8	<8	26	<8	<8	<8	<8	<8	<8	2,610	<8	<8	<8	<8	<8
		1/22/20	<20	23	<20	<20	35	<20	<20	<20	<20	<20	<40	<20	<20	<20	114	<60	<20	<40	<40	<40
		DUP	<20	26	<20	<20	46	<20	<20	<20	<20	<20	<40	<20	<20	<20	66	<60	<20	<40	<40	<40
	15	6/1/16	172	<8	<8	<8	14,700	<8	15	<8	<8	<8	<8	<8	<8	<8	2,190	<8	24	<8	<8	<8
		1/22/20	<20	32	<20	<20	299	<20	<20	<20	<20	<20	<40	<20	<20	<20	<40	<60	<20	<40	<40	<40
	25	6/1/16	316	<8	<8	579	11,400	<8	78	15	<8	81	<8	<8	<8	<8	1,380	<8	62	<8	<8	11
		1/22/20	38	116	25	<20	208	<20	112	<20	<20	<20	<40	<20	<20	<20	23	<60	<20	<40	<40	<40
		DUP	46	160	<4.9	330	610	<4.3	170	<8.2	<6.7	<8.8	<7.8	<6.1	<4.7	<6.1	510	<51	NS	<22	<12	43
	45	6/3/16	654	<8	<8	1,910	33,700	15	107	<8	<8	<8	<8	<8	<8	<8	1,410	<8	211	<8	<8	299
		1/22/20	138	397	55	1,410	1,310	<20	396	<20	<20	<20	<40	<20	<20	<20	2,640	<60	123	<40	<40	97
	65	6/3/16	119	<8	152	294	119,000	<8	244	<8	<8	<8	<8	<8	<8	<8	3,920	<8	237	<8	<8	708
		1/24/20	1,320	927	375	<20	93,700	110	2,670	<20	38	<20	<40	<20	<20	<20	6,210	<60	404	<40	<40	847
		DUP	1,240	833	295	<20	92,100	97	2,500	<20	46	<20	<40	<20	<20	<20	5,210	<60	419	<40	<40	833
	85	6/3/16	114	<8	<8	125	149,000	<8	1,770	<8	<8	<8	<8	<8	<8	<8	5,170	<8	295	<8	<8	856
		1/24/20	1,350	963	311	<20	211,000	102	2,970	22	31	<20	<40	<20	<20	<20	7,390	<60	441	<40	<40	982
	Commercial Screening Level (α=0.03)		67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-49	5	6/3/16	1,140	<8	<8	595	764,000	1,350	718	<8	118	70	<8	<8	<8	<8	1,090	<8	1,540	<8	<8	1,150
		1/22/20	65	291	<20	<20	510	<20	896	<20	<20	<20	<40	<20	<20	<20	5,920	<60	<20	<40	<40	870
	15	6/7/16	1,970	<8	<8	813	751,000	1,260	740	<8	162	<8	<8	<8	<8	<8	2,810	<8	1,820	<8	<8	2,870
		1/22/20	716	1,410	40	<20	4,360	<20	4,770	<20	<20	<20	<40	<20	<20	<20	5,140	<60	29	<40	<40	1,460
	25	6/7/16	3,410	<8	<8	971	593,000	1,290	867	<8	122	<8	<8	<8	<8	<8	<40	<8	1,550	<8	<8	5,890
		1/22/20	2,650	2,010	46	<20	75,700	<20	6,920	<20	30	<20	<40	<20	<20	<20	2,480	<60	77	<40	<40	3,570
	45	6/7/16	2,970	<8	<8	193	655,000	769	1,000	<8	<20	<8	<8	<8	<8	<8	1,960	<8	512	<8	<8	3,440
		1/22/20	4,740	4,930	<20	<20	38,900	586	13,500	<20	98	<20	<40	<20	<20	<20	3,180	<60	242	<40	<40	5,270
		Summa	3,200	3,800	<470	<550	400,000	<410	9,700	<780	<640	<840	<740	<580	<450	<580	56,000	<4,900	NS	<2,100	<1,100	4,500
	65	6/7/16	1,660	<8	<8	1,220	985,000	4,070	830	<8	196	<8	<8	<8	<8	<8	412	<8	1,950	<8	<8	1,920
		DUP	2,570	<8	<8	1,200	812,000	3,990	195	<8	194	<8	<8	<8	<8	<8	1,260	<8	2,060	<8	<8	1,950
		1/22/20	22	164	90	<20	2,160	582	433	<20	25	<20	<40	<20	<20	<20	362	<60	<20	<40	<40	131
	85	6/7/16	2,560	<8	<8	1,570	1,200,000	2,860	419	<8	338	<8	<8	<8	<8	<8	1,660	<8	3,490	<8	<8	1,420
		1/22/20	1,460	1,090	255	1,150	36,500	3,500	2,290	<20	207	<20	<40	<20	<20	<20	2,890	<60	2,900	<40	<40	645
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-50	5	6/8/16	16	<8	<8	<8	992	22	<8	<8	<8	<8	<8	<8	<8	<8	4,020	<8	<8	<8	<8	<8
		1/24/20	45	74	<20	<20	137	<20	<20	<20	<20	<20	<40	<20	<20	<20	6,850	<60	<20	<40	<40	617
		Summa	<630	<420	<400	<460	<460	<350	<460	<660	<550	<710	<630	<500	<380	<500	<650	<4,200	NS	<1,800	<960	<500
	15	6/8/16	2,210	<8	<8	110	29,400	717	213	<8	<8	<8	<8	<8	<8	<8	1,660	<8	<8	<8	<8	4,580
		1/24/20	628	330	<20	<20	1,300	<20	157	<20	<20	<20	<40	<20	<20	<20	13,500	<60	<20	<40	<40	2,770
	25	6/8/16	2,100	<8	<8	108	49,200	672	210	<8	<8	<8	<8	<8	<8	<8	1,710	<8	<8	<8	<8	4,420
		1/24/20	910	417	44	<20	2,890	35	366	25	<20	<20	<40	<20	<20	<20	11,600	<60	<20	<40	<40	3,220
	45	6/9/16	3,060	<8	<8	148	84,200	312	361	<8	<8	59	<8	<8	<8	<8	706	<8	49	<8	<8	7,430
		1/24/20	2,420	873	190	<20	68,200	186	2,690	24	<20	<20	<40	<20	<20	<20	6,830	<60	71	<40	<40	4,960
53	6/9/16	3,220	<8	<8	4,210	804,000	12,700	3,980	<8	<8	<8	<8	<8	<8	<8	<40	<8	528	<8	<8	11,400	
	DUP	3,100	<8	<8	4,110	901,000	12,800	3,770	<8	<8	<8	<8	<8	<8	<8	<40	<8	534	<8	<8	11,900	
	1/24/20	2,750	6,460	1,170	<20	2,590,000	7,380	19,500	<20	29	<20	<40	<20	<20	<20	1,760	<60	487	<40	<40	16,600	
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-99	5	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<40	<40	<40	<60	<20	<40	<40	<40
	15	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<40	<40	<40	<60	<20	<40	<40	<40
	30	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<40	<40	<40	<60	<20	<40	<40	<40
45	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<40	<40	<40	<60	<20	<40	<40	<40	
65	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<40	<40	<40	<60	<20	<40	<40	<40	
80	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<40	<40	<40	<60	<20	<40	<40	<40	
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-100	5	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40
	15	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40
	30	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40
	45	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40
65	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40	
80	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40	
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-101	5	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	No Flow
	15	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	74	<60	<20	<40	<40	<40
	30	4/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	260	<60	<20	<40	<40	<40
	45	4/22/20	<20	59	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,350	<60	<20	<40	<40	<40
		DUP	<20	61	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,290	<60	<20	<40	<40	<40
	65	4/22/20	<20	42	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	896	<60	<20	<40	<40	<40
80	4/22/20	<20	51	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,180	<60	<20	<40	<40	<40	
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Table 2B
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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																				
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM	
VP-102	5	4/21/20											No Flow										
		5/7/20	<85	<85	<20	<85	<85	<85	<85	<85	<85	<85	<85	<85	<85	<85	<85	<170	--	--	<170	<85	
	15	4/21/20	<20	47	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	124	<60	<20	<40	<40	<40	
	30	4/21/20	<20	361	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	6,440	<60	<20	<40	<40	<40	
	45	4/21/20	<20	469	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	7,020	<60	<20	<40	<40	<40	
65	4/21/20	<20	557	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	7,970	<60	<20	<40	<40	<40		
	80	4/21/20	<20	444	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	6,750	<60	<20	<40	<40	<40		
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667	



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-103	5	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40
	15	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40
	30	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	658.0	<60	<20	<40	<40	<40
	45	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	710.0	<60	<20	<40	<40	<40
	65	4/21/20 REP	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	810.0 792.0	<60 <60	<20 <20	<40 <40	<40 <40	<40 <40
	80	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	694.0	<60	<20	<40	<40	<40
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-104	5	4/22/20 5/7/20	<80	<80	<20	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	38	<160	--	--	<160	<80
	15	4/22/20	<20	69	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	22,400	<60	<20	<40	<40	<40
	30	4/22/20	<20	113	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	24,500	<60	<20	<40	<40	<40
	45	4/22/20	<20	205	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	23,300	<60	<20	<40	<40	<40
	65	4/22/20	<20	379	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30,700	<60	<20	<40	<40	<40
	80	4/22/20	<20	396	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	23,500	<60	<20	<40	<40	<40
Commercial Screening Level ($\alpha=0.03$)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																				
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM	
VP-105	5	12/26/19	<3.1	<2.4	<17	<2.7	<2.7	<2.0	<2.0	<3.4	<2.3	<4.3	<2.5	<2.3	<2.3	<4.5	17.0	<16	<6.9	<6.9	<15	<5.6	
		12/26/19	<3.1	<2.4	<17	<2.7	<2.7	<2.0	<2.0	<3.4	<2.3	<4.3	2.6	<2.3	<2.3	<4.5	<11	<16	<6.9	<6.9	<15	<5.6	
	30	12/26/19	<31	<24	<170	<27	<27	<20	<20	<34	<23	<43	<25	<23	<23	<45	1,900	<160	<69	<69	<150	240	
	45	12/26/19	<3.1	<2.4	<17	<2.7	<2.7	<2.0	<2.0	<3.4	<2.3	<4.3	2.5	<2.3	<2.3	<4.5	<11	<16	<6.9	<6.9	<15	<5.6	
		DUP	<16	<12	<87	<14	<14	<10	<10	<17	<12	<21	<12	<12	<11	<23	550	<80	<34	<34	<74	67	
	Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-106	5	3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	48.0	<60	<20	<40	<40	<20
	15	3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	98.0	<60	<20	<40	<40	44.0
	30	3/3/20	<20	20.0	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	1,760.0	<60	<20	<40	<40	319.0
		REP	<20	26.0	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	<20	<20	1,840.0	<60	<20	<40	<40	372.0
	45	3/5/20	<20	27.0	<20	64	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,510.0	<60	<20	<40	<40	441.0
		REP	<20	27.0	<20	56	22	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,920.0	<60	<20	<40	<40	505.0
	53	3/5/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	322.0	<60	<20	<40	<40	68.0
		Summa	<800	<800	<1600	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	<800	1,700.0	<1600	--	<800	<1600	<800
	Commercial Screening Level ($\alpha=0.03$)		67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-107	5	1/28/20	<20	95	<20	<20	292	<20	20	<20	<20	<20	<20	<20	<20	<20	929	<60	<20	<40	<40	54
		DUP	<20	99	<20	<20	307	<20	21	<20	<20	<20	<20	<20	<20	<20	1,010	<60	<20	<40	<40	54
	15	1/28/20	72	254	162	<20	1,690	<20	359	<20	<20	<20	<20	<20	<20	<20	1,550	<60	<20	<40	<40	120
	25	1/28/20	22,000	2,810	5,370	<20	29,700	629	8,170	31.0	30	<20	<20	<20	<20	<20	7,330	<60	194	<40	<40	897
	30	1/28/20	1,890	1,350	1,280	<20	23,800	1,120	4,680	<20	133	<20	<20	<20	<20	<20	2,670	<60	1,110	<40	<40	1,160
	45	1/28/20	1,890	1,200	1,170	<20	16,200	963	4,600	<20	109	<20	<20	<20	<20	<20	2,520	<60	921	<40	<40	1,190
65	1/28/20	1,770	1,030	864	<20	27,200	975	4,060	<20	122	<20	<20	<20	<20	<20	2,990	<60	1,130	<40	<40	1,140	
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-108	5	1/27/20 DUP	<20 <590	52 <390	60 <370	<20 <440	180 <440	<20 <330	124 <440	<20 <620	<20 <510	<20 <670	<40 <590	<20 <470	<20 <360	<20 <470	1,150.0 <610	<60 <3,900	<20 NS	<40 <1,700	<40 <900	218 <470
		15	1/27/20	218	374	60	<20	1,930	<20	1,380	<20	<20	<20	<40	<20	<20	<20	7,860.0	<60	<20	<40	<40
	30	1/27/20	2,370	1,080	60	<20	58,400	30	18,700	28	26	<20	<40	<20	<20	<20	5,290.0	<60	<20	<40	<40	10,800
		45	1/27/20	285	265	27	<20	7,500	27	3,140	<20	<20	<20	<40	<20	<20	<20	5,440.0	<60	<20	<40	<40
	54	1/27/20	<20	52	<20	<20	<20	35	36	<20	<20	<20	<40	<20	<20	<20	<40	<60	<20	<40	<40	<40
VP-109	5	1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	59	<60	<20	<40	<40	<40
	15	3/2/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	115	<60	<20	<40	<40	<40
	30	3/2/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	122	<60	<20	<40	<40	<40
	45	3/2/20 DUP	<20 <800	<20 <800	<20 <1600	<20 <800	<20 <800	<20 <800	<20 <800	<20 <800	<20 <800	<20 <800	<20 <800	<20 <800	<20 <800	<20 <800	163 280	<60 <1600	<20 --	<40 <800	<40 <800	<40 <800
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-113	5	3/2/20 REP	<20 <20	<20 <20	<20 <20	<20 <20	24 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	894 1,160	<60 <60	<20 <20	<40 <40	<40 <40	51 82
	15	3/2/20	<20	62	<20	<20	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	1,020	<60	<20	<40	<40	129
	30	3/2/20	401	148	<20	<20	599	<20	91	<20	<20	<20	<20	<20	<20	<20	8,740	<60	<20	<40	<40	1,310
	45	3/2/20	1,070	298	<20	<20	2,880	<20	509	<20	<20	<20	<20	<20	<20	<20	5,060	<60	<20	<40	<40	2,090
	60	3/2/20	648	1,320	59	<20	1,830	414	5,030	<20	<20	<20	<20	<20	<20	<20	4,070	<60	<20	<40	<40	3,690
VP-114	5	3/3/20	<20	34	<20	<20	282	<20	33	<20	<20	<20	<40	<20	<20	<20	<60	<20	<20	<40	<40	<40
	15	3/3/20 REP	169 207	275 292	<20 <20	<20 <20	4,470 4,590	<20 <20	717 773	<20 <20	<20 <20	<20 <20	<40 <40	<20 <20	<20 <20	<20 <20	<60 <60	<20 <20	<20 <20	<40 <40	<40 <40	489 469
	30	3/3/20	1,950	1,500	132	<20	106,000	<20	7,170	<20	<20	<20	<40	<20	<20	<20	<60	132	<20	<40	<40	1,100
	45	3/3/20	8,290	4,730	1,550	<20	1,210,000	308	18,600	<20	49	<20	<40	<20	<20	<20	<60	1,550	167	<40	<40	2,850
	Commercial Screening Level ($\alpha=0.03$)		67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-132	5	4/23/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<60	<20	<40	<40	<40
	15	4/23/20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	43	<60	<20	<40	<40	<40
	30	4/23/20 REP	<20 <20	218 208	<20 <20	<20 <20	<20 <20	<20 <20	962 898	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	<20 <20	893 919	<60 <60	216 213	<40 <40	<40 <40	<40 <40
	45	4/23/20	<20	81	<20	<20	<20	<20	171	<20	<20	<20	<20	<20	<20	<20	1,260	<60	31	<40	<40	<40
	65	4/23/20	<20	480	<20	<20	<20	<20	996	<20	<20	<20	<20	<20	<20	<20	12,000	<60	108	<40	<40	<40
	80	4/23/20	<20	579	<20	<20	<20	<20	1,110	<20	<20	<20	<20	<20	<20	<20	12,000	<60	145	<40	<40	99
Commercial Screening Level (α=0.03)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667



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Other Chlorinated VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)																			
			CT	CF	MC	1,1,2-TCA	1,1,1-TCA	1,2-DCA	1,1-DCA	BDCM	CB	DBCM	DCDFM	1,2-DCP	cis-1,3-DCP	trans-1,3-DCP	Freon 113 (aka 1,1,2-TC-1,2,2-TFA)	HCB	1,1,1,2-PCA	1,1,2,2-PCA	1,2,4-TCB	TCFM
VP-133	5	12/26/19	<3.1	<2.4	<17	<2.7	<2.7	<2.0	<2.0	<3.4	<2.3	<4.3	<2.5	<2.3	<2.3	<4.5	<11	<16	<6.9	<6.9	<15	<5.6
	15	12/26/19	<3.1	3	<17	<2.7	<2.7	<2.0	13	<3.4	<2.3	<4.3	2.9	<2.3	<2.3	<4.5	<11	<16	<6.9	<6.9	<15	<5.6
	30	12/26/19	<130	160	<690	<110	<110	<81	2,400	<130	<92	<170	<99	<92	<91	<180	1,000	<640	<270	<270	<590	<220
	45	12/26/19	<130	260	<690	<110	<110	<81	2,900	830	<92	<170	<99	<92	<91	<180	6,400	<640	<270	<270	<590	<220
	65	12/26/19	<130	410	<690	<110	<110	<81	1,200	<130	<92	<170	<99	<92	<91	<180	14,000	<640	<270	<270	<590	<220
	85	12/26/19 DUP	<50 <50	270 390	<280 <280	<44 <44	<44 <44	<32 <32	750 990	<54 <54	<37 <37	<68 <68	<40 <40	<37 <37	<36 <36	<73 <73	9,500 12,000	<260 <260	<110 <110	<110 <110	<240 <240	94 130
Commercial Screening Level ($\alpha=0.03$)			67	18	400	26	146,667	16	257	11	7,333	NA	14,667	110	103	103	733,333	19	57	7	57	176,667

NOTES:

- "feet bgs" - feet below ground surface
- "**Bold**" - concentration exceeds the commercial screening level
- "ND" - Non-detect
- "****" - Screening levels obtained from HHRA Note No. 3 (April 2019) or EPA Region 9 RSL (April 2019) with attenuation factor of 0.03
- "DBCM" - Dibromochloromethane
- "BDCM" - Bromodichloromethane
- "CT" - Carbon tetrachloride
- "CB" - Chlorobenzene

- "CF" - Chloroform
- "1,2-DCP" - 1,2-dichloropropane
- "cis-1,3-DCP" - cis-1,3-dichloropropane
- "trans-1,3-DCP" - trans-1,3-dichloropropane
- "HCB" - Hexachlorobutadiene
- "MC" - Methylene chloride
- "1,1,1,2-PCA" - 1,1,1,2-tetrachloroethane

- "1,1,2,2-PCA" - 1,1,2,2-tetrachloroethane
- "1,1,1-TCA" - 1,1,1-trichloroethane
- "1,1,2-TCA" - 1,1,2-trichloroethane
- "TCFM" - Trichlorofluoromethane
- "1,2,4-TCB" - 1,2,3-trichlorobenzene
- "1,1-DCA" - 1,1-dichloroethane
- "1,2-TCA" - 1,2-dichloroethane



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)										
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene	
VP-25	5	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20	
		3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	
	15	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20	
		3/5/20	27	<20	<20	<20	<20	<20	<20	<20	<40	<20	
	25	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20	
		3/3/20	143	<20	<20	<20	<20	<20	<20	<20	<40	<20	
		Summa	390	<1600	<820	<820	<820	180	<820	<820	<820	<820	
	45	8/9/14	404	<20	<20	<20	<20	<20	<20	<20	--	<20	
		DUP	390	<20	<20	<20	<20	<20	<20	<20	--	<20	
		3/5/20	242	<20	<20	<20	<20	<20	<20	<20	<40	<20	
	55	8/9/14	604	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		3/5/20	275	<20	<20	<20	<20	<20	<20	<20	<40	<20	
	65	8/9/14	440	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
3/5/20		269	<20	<20	<20	<20	<20	<20	<20	<40	<20		
85	8/9/14	584	<20	<20	<20	<20	<20	<20	<20	<20	--	<20	
	3/5/20	270	<20	<20	<20	<20	<20	<20	<20	<40	<20		
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667	



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-26	5	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		5/7/20	<31	<160	<78	<78	<78	20	<78	<78	23	<78
	15	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		5/7/20	<34	<170	<84	<84	<84	18.0	<84	<84	22	<84
	30	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		5/7/20	<3,100	<16,000	<7,800	<7,800	<7,800	<3,100	<7,800	<7,800	<7,800	<7,800
	45	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		5/7/20	<33	<160	<82	<82	<82	<33	<82	<82	<82	<82
	65	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		5/7/20	<3,300	<17,000	<8,400	<8,400	<8,400	<3,300	<8,400	<8,400	<8,400	<8,400
80	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20	
	5/7/20	<3,600	<18,000	<9,000	<9,000	<9,000	<3,600	<9,000	<9,000	<9,000	<9,000	
	DUP	<3,200	<16,000	<8,000	<8,000	<8,000	<3,200	<8,000	<8,000	<8,000	<8,000	
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-31	5	8/9/14	<20	1,100	<20	<20	<20	<20	<20	<20	--	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
		Summa	<2.4	<11	<6.3	<5.5	<5.8	17.0	<9.8	<23	14	<8.1
	15	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	25	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		1/31/20	<20	21	<20	<20	<20	<20	<20	<20	<40	<20
	45	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	65	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	85	8/9/14	<20	<20	<20	<20	<20	<20	<20	<20	--	<20
		1/31/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-42	5	6/7/16	<8	<8	<8	<8	<8	70	<8	<8	--	<8
	15	6/7/16	<8	<8	<8	<8	<8	60	42	<8	--	<8
	25	6/7/16	<8	<8	<8	<8	<8	58	47	<8	--	<8
	45	6/7/16	<8	<8	<8	<8	<8	25	30	<8	--	<8
		1/22/20	<20	<20	<20	33	<20	<20	<20	<20	84	<20
	55	6/7/16	<8	<8	<8	<8	<8	38	38	<8	--	<8
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2- Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-46	5	6/9/16	51	<8	<8	<8	<8	56	135	<8	--	<8
		1/27/20	124	<20	<20	<20	<20	<20	<20	<20	<40	<20
		DUP	129	<20	<20	<20	<20	<20	<20	<20	<40	<20
	15	6/9/16	38	<8	<8	<8	<8	43	134	<8	--	<8
		1/27/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	25	5/31/16	<8	<8	<8	<8	<8	32	<8	<8	--	<8
		1/27/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	45	5/31/16	<8	<8	<8	<8	<8	22	<8	<8	--	<8
		1/27/20	80	<20	<20	<20	33	<20	<20	<20	<40	<20
	65	5/31/16	<8	<8	<8	<8	<8	32	<8	<8	--	<8
		1/27/20	120	<20	<20	<20	<20	<20	<20	<20	<40	<20
	85	5/31/16	<8	<8	<8	<8	<8	30	<8	<8	--	<8
		1/27/20	111	<20	<20	160	<20	38	75	43	353	51
	Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-47	5											
		6/8/16	<8	<8	<8	<8	<8	38	38	<8	--	<8
		3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	15											
		6/8/16	<8	<8	<8	<8	<8	26	32	<8	--	<8
		3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	25											
		6/8/16	<8	<8	<8	<8	<8	66	51	<8	--	<8
		3/3/20	166	<20	<20	<20	<20	<20	<20	<20	<40	<20
	45											
		6/8/16	331	<8	<8	52	<8	295	61	<8	--	115
		DUP	290	<8	<8	51	<8	294	56	<8	--	98
	3/4/20	384	<20	<20	<20	<20	29	<20	<20	<40	<20	
	65											
		6/8/16	343	<8	<8	<8	<8	141	50	<8	--	<8
3/4/20		47	<20	<20	<20	<20	<20	<20	<20	<40	<20	
85												
	6/8/16	351	<8	<8	<8	<8	127	44	<8	--	<8	
	3/4/20	398	<20	<20	<20	<20	23	<20	<20	<40	<20	
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-48	5	6/1/16	<8	<8	<8	<8	<8	61	60	<8	--	<8
		1/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
		DUP	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	15	6/1/16	<8	<8	<8	45	<8	147	95	<8	--	174
		1/22/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	25	6/1/16	<8	<8	<8	46	<8	207	82	<8	--	123
		1/22/20	23	<20	<20	<20	<20	<20	<20	<20	<40	<20
		Summa	29	<14	<8.4	<7.3	<7.8	<3.9	<13	<31	<17	<11
	45	6/3/16	<8	<8	<8	<8	<8	202	56	<8	--	<8
		1/22/20	55	<20	<20	<20	<20	45	<20	<20	<40	<20
	65	6/3/16	<8	<8	<8	<8	<8	644	43	<8	--	<8
		1/24/20	130	<20	<20	<20	<20	998	<20	<20	<40	<20
DUP		121	<20	<20	<20	<20	955	<20	<20	<40	<20	
85	6/3/16	<8	<8	<8	<8	<8	786	40	<8	--	<8	
	1/24/20	145	<20	<20	<20	<20	916	<20	<20	<40	<20	
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-49	5	6/3/16	<8	<8	<8	11	<8	1,140	39	<8	--	<8
		1/22/20	111	<20	<20	<20	<20	<20	<20	<20	<40	<20
	15	6/7/16	<8	<8	<8	46	<8	1,540	61	<8	--	<8
		1/22/20	133	<20	<20	<20	<20	102	<20	<20	<40	<20
	25	6/7/16	<8	<8	<8	37	<8	1,280	46	<8	--	14
		1/22/20	227	<20	<20	<20	<20	107	<20	<20	<40	<20
	45	6/7/16	101	<8	<8	12	<8	658	34	<8	--	<8
		1/22/20	443	<20	<20	30	<20	82	<20	<20	<40	<20
		Summa	<310	<780	<800	<700	<740	<370	<1,200	<2,900	<1,600	<1,000
	65	6/7/16	<8	<8	<8	54	<8	2,730	58	<8	--	<8
		DUP	<8	<8	<8	53	<8	2,660	58	<8	--	<8
		1/22/20	26	<20	<20	<20	<20	618	<20	<20	<40	<20
	85	6/7/16	<8	<8	<8	15	<8	2,000	30	<8	--	<8
		1/22/20	91	<20	<20	<20	<20	734	<20	<20	<40	<20
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-50	5	6/8/16	<8	<8	<8	<8	<8	16	<8	<8	--	<8
		1/24/20	24	<20	<20	<20	<20	<20	<20	<20	<40	<20
		Summa	<270	<1,200	<680	<600	<630	<320	<1,100	<2,500	<1,400	<880
	15	6/8/16	<8	<8	<8	<8	<8	258	30	<8	--	<8
		1/24/20	30	<20	<20	<20	<20	<20	<20	<20	<40	<20
	25	6/8/16	<8	<8	<8	<8	<8	253	30	<8	--	<8
		1/24/20	<20	<20	<20	<20	<20	22	<20	<20	<40	<20
	45	6/9/16	<8	<8	<8	<8	<8	212	131	<8	--	<8
		1/24/20	21	<20	<20	<20	<20	26	<20	<20	<40	<20
	53	6/9/16	<8	<8	<8	62	<8	709	129	<8	--	<8
		DUP	<8	<8	<8	62	<8	660	129	<8	--	<8
1/24/20		164	<20	<20	232	<20	103	75	37	302	53	
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-99	5	4/22/20	<20	<20	<20	<20	<20	112	<20	<20	<40	<20
	15	4/22/20	26	<20	<20	<20	<20	1,830	<20	<20	62	22
	30	4/22/20	<20	<20	<20	<20	<20	1,790	<20	<20	<40	<20
	45	4/22/20	<20	<20	<20	<20	<20	3,250	<20	<20	<40	<20
	65	4/22/20	<20	<20	<20	<20	<20	1,160	<20	<20	<40	<20
	80	4/22/20	<20	<20	<20	<20	<20	2,220	<20	<20	<40	<20
Commercial Screening Level ($\alpha=0.03$)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-100	5	4/21/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	15	4/21/20	<20	<20	<20	<20	<20	379	<20	<20	<40	<20
	30	4/21/20	144	<20	<20	116	<20	6,330	142	42	310	174
	45	4/21/20	<20	<20	<20	<20	<20	360	<20	<20	<40	<20
	65	4/21/20	<20	<20	<20	<20	<20	251	<20	<20	<40	<20
	80	4/21/20	<20	<20	<20	<20	<20	230	<20	<20	<40	<20
Commercial Screening Level ($\alpha=0.03$)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

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Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-101	5	4/22/20	47	<20	<20	<20	<20	218	<20	<20	<40	<20
	15	4/22/20	183	<20	<20	<20	<20	411	149	<20	<40	<20
	30	4/22/20	76	<20	<20	<20	<20	211	<20	<20	<40	<20
	45	4/22/20	<20	<20	<20	<20	<20	346	<20	<20	<40	<20
		REP	<20	<20	<20	<20	<20	335	<20	<20	<40	<20
	65	4/22/20	<20	<20	<20	<20	<20	2,450	<20	<20	<40	<20
	80	4/22/20	<20	<20	<20	<20	<20	84	<20	<20	<40	<20
	Commercial Screening Level ($\alpha=0.03$)		14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



GENESIS ENGINEERING & REDEVELOPMENT

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)										
			Benzene	Bromoform	1,2- Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene	
VP-102	5												
		4/21/20	No Flow										
		5/7/20	<34	<170	<8,000	<85	<20	1,140	30	<85	140	57	
	15												
		4/21/20	<20	<20	<20	<20	<20	1,140	<20	<20	<40	<20	
	30												
		4/21/20	144	<20	<20	<20	<20	850	28	<20	41	<20	
	45												
		4/21/20	<20	<20	<20	<20	<20	167	<20	<20	<40	<20	
	65												
		4/21/20	<20	<20	<20	<20	<20	178	<20	<20	<40	<20	
	80												
		4/21/20	<20	<20	<20	<20	<20	33	<20	<20	<40	<20	
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667	



Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-103	5	4/21/20	<20	<20	<20	<20	<20	79	<20	<20	<40	<20
	15	4/21/20	<20	<20	<20	<20	<20	653	<20	<20	<40	<20
	30	4/21/20	<20	<20	<20	<20	<20	529	<20	<20	<40	<20
	45	4/21/20	<20	<20	<20	<20	<20	578	<20	<20	<40	<20
	65	4/21/20	<20	<20	<20	<20	<20	2,410	<20	<20	<40	<20
		REP	<20	<20	<20	<20	<20	4,750	<20	<20	<40	<20
	80	4/21/20	<20	<20	<20	<20	<20	407	<20	<20	<40	<20
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



GENESIS ENGINEERING & REDEVELOPMENT

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)										
			Benzene	Bromoform	1,2- Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene	
VP-104	5	4/22/20											
			Tracer in Probe										
		<32	<160	<80	<80	<80	41	31	<80	83	31		
	15	4/22/20	31	<20	<20	<20	<20	4,050	<20	<20	72	<20	
		30	4/22/20	<20	<20	<20	<20	<20	2,250	<20	<20	25	<20
	45	4/22/20	<20	<20	<20	<20	<20	1,960	<20	<20	<40	<20	
	65	4/22/20	<20	<20	<20	<20	<20	887	<20	<20	<40	<20	
	80	4/22/20	<20	<20	<20	<20	<20	1,100	<20	<20	<40	<20	
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667	

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2- Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-105	5	12/26/19	<1.6	<5.2	<3.8	<2.2	<6.4	<1.9	<7.4	<2.5	<8.7	<2.2
	15	12/26/19	<1.6	<5.2	<3.8	<2.2	<6.4	3.4	<7.4	<2.5	<8.7	<2.2
	30	12/26/19	<16	<52	<38	<22	<64	<19	<74	<25	<87	<22
	45	12/26/19	<1.6	<5.2	<3.8	<2.2	<6.4	3.3	<7.4	<2.5	<8.7	<2.2
		DUP	<8.0	<26	<19	<11	<32	73	<37	<12	<43	<41
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)										
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene	
VP-106	5	3/3/20	190	<20	<20	<20	<20	39.0	<20	<20	<40	<20	
	15	3/3/20	62	<20	<20	<20	<20	91.0	<20	<20	<40	<20	
	30	3/3/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20	
		REP	<20	<20	<20	<20	<20	83	<20	<20	<40	<20	
	45	3/5/20	25	<20	<20	<20	<20	55	<20	<20	<40	<20	
		REP	33	<20	<20	<20	<20	220	<20	<20	<40	<20	
	53	3/5/20	<20	<20	<20	<20	<20	116	<20	<20	<40	<20	
		Summa	<320	<1600	<800	<800	<800	200	<800	<800	<800	<800	
	Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



GENESIS ENGINEERING & REDEVELOPMENT

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampl ing Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-107	5	1/28/20	158	<20	<20	<20	<20	128	23	<20	71	27
		DUP	153	<20	<20	<20	<20	133	23	<20	74	24
	15	1/28/20	197	<20	<20	31	<20	248	36	<20	112	35
	25	1/28/20	207	<20	<20	25	<20	456	<20	<20	22	<20
	30	1/28/20	122	<20	<20	27	<20	1,660	<20	<20	32	<20
	45	1/28/20	114	<20	<20	25	<20	1,570	<20	37	<40	<20
	65	1/28/20	120	<20	<20	29	<20	3,440	<20	<20	<40	<20
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration ($\mu\text{g}/\text{m}^3$)									
			Benzene	Bromoform	1,2- Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-108	5	1/27/20	194	<20	<20	34	<20	223	35	<20	<40	<20
		Summa	<250	<1,100	<640	<560	<590	<300	<1,000	<2,300	<1,300	<830
	15	1/27/20	121	<20	<20	<20	<20	162	<20	<20	<40	<20
	30	1/27/20	328	<20	<20	<20	<20	165	<20	<20	<40	<20
	40	1/27/20	81	<20	<20	28	<20	285	<20	<20	86	<20
	54	1/27/20	<20	<20	<20	<20	<20	207	<20	<20	<40	<20
Commercial Screening Level ($\alpha=0.03$)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-109	5	1/31/20	<20	<20	<20	43.0	<20	92.0	34.0	214	<40	180
	15	3/2/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	30	3/2/20	<20	<20	<20	<20	<20	20.0	<20	<20	<40	<20
	45	3/2/20	<20	<20	<20	<20	<20	32.0	<20	<20	<40	<20
		Summa	<320	<1600	<800	<800	<800	140	<800	<800	<800	<800
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Samplin g Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-113	5	3/2/20	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
		REP	<20	<20	<20	<20	<20	<20	<20	<20	<40	<20
	15	3/2/20	155	<20	<20	<20	<20	54	<20	<20	<40	<20
	30	3/2/20	108	<20	<20	<20	<20	63	<20	<20	<40	<20
	45	3/2/20	59	<20	<20	<20	<20	41	<20	<20	<40	<20
	60	3/2/20	148	<20	<20	37	<20	761	<20	<20	<40	<20
	Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667



Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-114	5	3/3/20	63	<20	<20	<20	<20	283	<20	<20	<40	<20
	15	3/3/20	293	<20	<20	<20	<20	294	<20	<20	<40	<20
		REP	290	<20	<20	<20	<20	246	<20	<20	<40	<20
	30	3/3/20	333	<20	<20	100	<20	2,450	<20	41	<40	74
	45	3/3/20	188	<20	<20	108	<20	321	<20	<20	<40	27
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667



Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration ($\mu\text{g}/\text{m}^3$)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-132	5	4/23/20	44	<20	<20	<20	<20	434	<20	<20	<40	<20
	15	4/23/20	<20	<20	<20	<20	<20	573	<20	<20	<40	<20
	30	4/23/20	50	<20	<20	<20	<20	131	36	<20	<40	<20
		REP	46	<20	<20	<20	<20	125	41	<20	<40	<20
	45	4/23/20	<20	<20	<20	<20	<20	336	<20	<20	<40	<20
	65	4/23/20	61	<20	<20	<20	<20	86	<20	<20	<40	<20
	80	4/23/20	70	<20	<20	<20	<20	288	<20	<20	<40	<20
	Commercial Screening Level ($\alpha=0.03$)		14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

Table 2C

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

Other VOC Concentrations in Soil Vapor

Boring	Sample Depth	Sampling Date	Concentration (µg/m³)									
			Benzene	Bromoform	1,2-Dibromoethane	Ethylbenzene	Styrene	Toluene	1,2,4-TMB	1,3,5-TMB	m,p-Xylene	o-Xylene
VP-133	5	12/26/19	2	<5.2	<3.8	2	<6.4	12	<7.4	<2.5	9	3
	15	12/26/19	13	<5.2	<3.8	18	<6.4	41	<7.4	4	19	22
	30	12/26/19	<64	<210	<150	<87	<260	130	<290	<98	<350	<87
	45	12/26/19	67	<210	<150	140	<260	190	<290	<98	<350	<87
	65	12/26/19	<64	<210	<150	<87	<260	<75	<290	<98	<350	<87
	85	12/26/19	43	<83	<61	<35	<100	<30	<120	<39	<140	<35
		DUP	56	<83	<61	<35	<100	<30	<120	<39	<140	<35
Commercial Screening Level (α=0.03)			14	367	0.67	163	130,000	43,333	8,667	8,667	14,667	14,667

NOTES:

- "feet bgs" - feet below ground surface
- "**Bold**" - concentration exceeds the residential screening level
- "ND" - Non-detect
- "*" - Screening levels obtained from HHRA Note No. 3 (April 2019) or EPA Region 9 RSL (April 2019) with attenuation factor of 0.03

Table 3A

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

COPC Concentrations in Soil

Sample ID	Depth (ft bgs)	Sampling Date	Concentration (mg/kg)					
			PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-107	27	1/15/20	0.0099	<0.0022	<0.0018	<0.0019	0.0032	<0.0018
	39	1/16/20	0.11	0.021	<0.0018	<0.0019	0.026	<0.0019
	45.5	1/16/20	0.15	0.047	<0.0018	<0.0019	0.076	<0.0019
VP-108	26	1/8/20	0.0035	<0.0022	<0.0018	<0.0019	<0.0021	<0.0019
	33	1/8/20	<0.0022	<0.0022	<0.0018	<0.0019	<0.0021	<0.0019
	40	1/8/20	0.079	0.0028	<0.0018	<0.0019	<0.0021	<0.0019
VP-114	50	1/8/20	0.003	<0.0022	<0.0018	<0.0019	<0.0021	<0.0019
	60	1/8/20	0.02	<0.0022	<0.0018	<0.0019	<0.0021	<0.0019
VP-133	5	12/7/19	<0.0022	<0.0022	<0.0018	<0.0019	<0.0021	<0.0019
	15	12/7/19	<0.0015	<0.0015	<0.0012	<0.0013	<0.0014	<0.0013
	15	DUP-1	<0.0015	<0.0015	<0.0013	<0.0013	<0.0015	<0.0013
	30	12/7/19	0.002	0.0035	<0.0015	<0.0015	<0.0017	<0.0015
	45	12/7/19	0.0029	<0.0016	<0.0013	<0.0014	<0.0015	<0.0014
	65	12/7/19	0.0074	0.0073	<0.0016	<0.0017	<0.0019	<0.0017
	85	12/7/19	0.01	0.013	<0.0018	<0.0019	<0.0021	<0.0019
Commercial Screening Level*			2.7	6.0	84	600	1,000	0.15

Notes:

- "PCE" - tetrachloroethene
- "TCE" - trichloroethene
- "1,1-DCE" - 1,1-dichloroethene
- "mg/kg" - milligrams per kilogram
- "*" - Screening levels obtained from HHRA Note No. 3 (April 2019), EPA Region 9 RSL (April 2019)
- "cis-1,2-DCE" - cis-1,2-dichloroethene
- "trans-1,2-DCE" - trans-1,2-dichloroethene
- "feet bgs" - feet below the ground surface
- "ND" - Not Detected

Table 3B

**Soil, Soil Vapor, and Groundwater Delineation - Interim Module III
Report**

Historical COPC Concentrations in Soil

Sample ID	Depth (ft bgs)	Sampling Date	Concentration (mg/kg)				
			PCE	TCE	cis-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-35	5	4/26/16	<0.002	<0.001	<0.005	<0.005	<0.005
	35	4/28/16	<0.002	<0.001	<0.005	<0.005	<0.005
	75	4/28/16	<0.002	<0.001	<0.005	<0.005	<0.005
VP-42	5	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	10	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	15	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	20	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	25	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	30	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	35	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	40	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	45	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	50	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	55	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	60	5/18/16	0.012	<0.001	<0.005	<0.005	<0.005
	65	5/18/16	0.004	0.006	<0.005	0.013	<0.005
VP-46	5	5/17/16	0.011	0.006	<0.005	<0.005	<0.005
	10	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	15	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	20	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	25	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	30	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	35	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	40	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	45	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	50	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	55	5/17/16	0.006	0.002	<0.005	<0.005	<0.005
	60	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	65	5/17/16	0.002	<0.001	<0.005	<0.005	<0.005
	70	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	75	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	80	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	85	5/17/16	0.008	0.002	<0.005	<0.005	<0.005
Commercial Screening Level*			2.7	6.0	84	1,000	0.15

Table 3B

**Soil, Soil Vapor, and Groundwater Delineation - Interim Module III
Report**

Historical COPC Concentrations in Soil

Sample ID	Depth (ft bgs)	Sampling Date	Concentration (mg/kg)				
			PCE	TCE	cis-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-47	5	5/16/16	0.017	0.002	<0.005	<0.005	<0.005
	10	5/16/16	0.003	<0.001	<0.005	<0.005	<0.005
	15	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	20	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	25	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	30	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	35	5/16/16	0.020	0.010	<0.005	<0.005	<0.005
	45	5/16/16	0.024	0.026	<0.005	<0.005	<0.005
	50	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	55	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	60	5/16/16	0.027	0.030	<0.005	<0.005	<0.005
	65	5/16/16	0.010	0.009	<0.005	<0.005	<0.005
	70	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	75	5/16/16	0.013	0.008	<0.005	<0.005	<0.005
	80	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
	85	5/16/16	<0.002	<0.001	<0.005	<0.005	<0.005
VP-48	5	5/17/16	<0.002	0.003	<0.005	<0.005	<0.005
	10	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	15	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	20	5/17/16	<0.002	0.002	<0.005	<0.005	<0.005
	25	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	30	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	35	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	40	5/17/16	<0.002	<0.001	<0.005	<0.005	<0.005
	45	5/17/16	<0.002	0.005	<0.005	<0.005	<0.005
	60	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	70	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	75	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
	80	5/18/16	<0.002	<0.001	<0.005	<0.005	<0.005
VP-49	5	5/12/16	0.025	<0.001	<0.005	<0.005	<0.005
	10	5/12/16	0.071	0.003	<0.005	0.021	<0.005
	15	5/12/16	0.017	<0.001	<0.005	<0.005	<0.005
	20	5/12/16	0.025	0.002	<0.005	0.008	<0.005
	25	5/12/16	<0.002	<0.001	<0.005	<0.005	<0.005
	30	5/12/16	0.002	<0.001	<0.005	<0.005	<0.005
	35	5/12/16	0.032	0.003	<0.005	0.041	<0.005
	40	5/12/16	0.077	0.003	<0.005	0.017	<0.005
	45	5/12/16	0.117	0.006	<0.005	0.052	<0.005
	50	5/12/16	0.635	0.078	0.007	1.170	<0.005
	55	5/12/16	0.852	0.073	0.006	0.181	<0.005
	60	5/12/16	0.747	0.067	0.005	0.168	<0.005
	65	5/12/16	0.441	0.042	<0.005	0.304	<0.005
	70	5/12/16	0.039	0.002	<0.005	0.009	<0.005
	75	5/12/16	0.034	0.002	<0.005	<0.005	<0.005
	80	5/12/16	0.085	0.004	<0.005	0.011	<0.005
	85	5/12/16	0.047	0.002	<0.005	0.005	<0.005
Commercial Screening Level*			2.7	6.0	84	1,000	0.15

Table 3B

**Soil, Soil Vapor, and Groundwater Delineation - Interim Module III
Report**

Historical COPC Concentrations in Soil

Sample ID	Depth (ft bgs)	Sampling Date	Concentration (mg/kg)				
			PCE	TCE	cis-1,2-DCE	1,1-DCE	Vinyl Chloride
VP-50	5	5/11/16	0.011	0.002	<0.005	<0.005	<0.005
	10	5/11/16	0.027	0.005	<0.005	0.022	<0.005
	15	5/11/16	0.004	<0.001	<0.005	<0.005	<0.005
	20	5/11/16	0.010	0.002	<0.005	<0.005	<0.005
	25	5/11/16	0.014	0.004	<0.005	<0.005	<0.005
	30	5/11/16	0.113	0.026	<0.005	0.229	<0.005
	35	5/11/16	0.006	0.002	<0.005	0.008	<0.005
	40	5/11/16	0.005	<0.001	<0.005	0.008	<0.005
	45	5/11/16	0.005	<0.005	<0.005	0.006	<0.005
	50	5/11/16	0.018	0.004	<0.005	0.022	<0.005
	55	5/11/16	3.390	0.083	<0.005	6.320	<0.005
	60	5/11/16	0.450	0.089	<0.005	0.392	<0.005
Commercial Screening Level*			2.7	6.0	84	1,000	0.15

Notes:

- "PCE" - tetrachloroethene
- "TCE" - trichloroethene
- "1,1-DCE" - 1,1-dichloroethene
- "cis-1,2-DCE" - cis-1,2-dichloroethene
- "mg/kg" - milligrams per kilogram
- "feet bgs" - feet below the ground surface
- *** - Screening levels obtained from HHRA Note No. 3 (April 2019), EPA Region 9 RSL (April 2019)



GENESIS ENGINEERING & REDEVELOPMENT

Table 4

Soil, Soil Vapor, and Groundwater Delineation - Interim Module III Report

VOC Concentrations in Perched Groundwater

Well ID	Sampling Date	Concentration (µg/L)											
		PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Benzene	CT	1,2-DCA	MC	1,1,1-TCA	1,1,2-TCA
VP-42-GW	5/19/16	2,550	90	<25	<25	1,680	--	<25	--	--	--	<25	--
VP-50-GW	5/11/16	36,600	2,870	<250	<250	56,000	--	<250	--	--	--	22,600	--
VP-106-GW	1/14/20	<0.13	1.0	<0.085	<0.15	1.0	<0.12	<0.083	<0.18	<0.17	<0.48	<0.11	<0.16
VP-108-GW	1/8/20	1,900	110	10	0.87	2,400	0.2	0.54	0.64	3.5	<0.48	7.2	2.1
VP-109-GW	1/2/20	0.39	<0.085	<0.085	<0.15	0.52	<0.12	0.18	<0.18	<0.17	<0.48	<0.11	<0.16
VP-113-GW	1/6/20	5,200	600	67	4.6	4,800	1.3	1.7	2.9	33	0.84	4.1	9.8
VP-114-GW	1/8/20	15,000	1,000	59	5.9	16,000	0.51	0.96	8.1	30	54	230	9.9
MCL*		5	5	6	10	6	0.5	1	0.5	5	5	200	5

NOTES:

- "feet bgs" - feet below ground surface
- "PCE" - tetrachloroethene
- "TCE" - trichloroethene
- "cis-1,2-DCE" - cis-1,2-dichloroethene
- "trans-1,2-DCE" - trans-1,2-dichloroethene
- "CT" - carbon tetrachloride
- "MC" - methylene chloride
- "1,1-DCA" - 1,1-dichloroethane
- "1,1,1-TCA" - 1,1,1-trichloroethane
- "1,1,2-TCA" - 1,1,2-trichloroethane
- "-" - not analyzed
- **"Bold"** - concentration exceeds the residential screening level
- *** - State Water Resources Control Board Maximum Contaminant Level (Oct. 2019)

APPENDIX C

Initial Building Survey

Building Survey Form

Type in or select answers from drop-down lists in the righthand column.

Upload answers to GeoTracker database for criteria marked with an asterisks (*).

See Table 1 in the *Guidance on Uploading Vapor Intrusion Information into GeoTracker (Attachment 4 of Supplemental Vapor Intrusion Guidance)* for a description of Building Design Type input choices.

Person Conducting Survey	Input
Name:	Kelly C. Brown
Company:	Stantec Consulting Services Inc.
Phone Number:	714 470-6494
Email:	kelly.brown@stantec.com

Building Contact Information	Input
Name:	Joel Chaves
Contact Title:	Manager
Phone Number:	310-539-0508 x264
Email:	rs3@robinsonheli.com
Building Occupant Interviewed?	Yes

Building Information	Input
Date of Building Survey (dd/mm/yy):	January 26, 2021
*Building Name:	Robinson Helicopter
*Building Address (Street, City):	2530/2540 Skypark Dr. Torrance, CA
Coordinates for Center of Building (Latitude, Longitude; decimal degrees to 0.00000):	33.802197 -118.329845
*Building Location Onsite/Offsite with respect to Site/Facility:	Onsite
*Year Built (yyyy; approximate if unsure):	Unknown
*Building Occupants:	Onsite

Building was formerly warehouse. Remodeled a number of years ago to current configuration. Removed second story offices and relocated bathrooms.

Building Survey Form

Building Dimensions	Input
*Building Footprint Area (within enclosed space; square feet [Ft2]):	37,200 ft2
Building Dimensions (at grade; feet by feet):	310' x 120'
*Ceiling Height of Ground Floor (Feet):	~15-20'; 20' in center
*Number of Floors (excluding the basement):	1

Building Design	Input
*Building Design Type:	Manufacturing facility
Has the design been modified?	Yes
*Foundation Type:	Slab-on-Grade
*Building Vapor Intrusion Mitigation System:	None
*Heating, Ventilation, & Air Conditioning (HVAC) System:	Heating only
Type of Energy Used in Building?	More Than One Type
Energy Primarily Used For?	Other
Number of Units for Multi-Unit Buildings:	N/A
Number of Rooms (average per unit for multi-unit buildings):	N/A
Number of Exterior Doors:	Main - 4, Warehouse - 6
Number of Elevators:	0
Number of Active Exhaust Fans (e.g., kitchen/bathroom):	1 in media blast room
Chimney or Other Vertical Draft Source?	Yes

Building Slab	Input
Slab Thickness (inches; approximate if unsure):	~4-6"
Large Slab Penetrations (> 1 Foot Diameter):	None
Soil Type 0 to 3 Feet Below Building:	Unknown
Evidence of moisture intrusion from Below Slab?	N/A

Active ventilation unit is Media Blast Room. Warehouse has 4 passive vents on roof. Main building as 19 passive vents on roof. Media Blast unit has 1 passive vent on roof.

Two interior doors between main building and warehouse.

Building Survey Form

Building Windows	Input
Number of Windows:	9 - warehouse: 5 along N side, 4 along S side
Weather Sealed Windows and Exterior Doors?	Some Sealed
Average Area of Window Open to Outside Air (Feet ²):	3'9"x13'2" = 49.5 ft ²
Ventilation During Sampling:	-

Building Crawl Space	Input
Crawl Space Height (Feet):	N/A
Number Crawl Space Vents:	N/A
Average Area per Crawl Space Vent (Feet ²):	N/A
Evidence of moisture intrusion into Crawl Space from Soil?	N/A

Building Basement	Input
Basement Height (Feet):	N/A
Basement Footprint Area (Feet ²):	N/A
Basement Wall Area Below Ground Surface (Feet ²):	N/A
Exposed Basement above grade?	N/A
Vents or Windows above-grade in exposed basement?	N/A
Unfinished Basement?	N/A
Evidence of moisture intrusion into Basement from Soil?	N/A

Building Survey Form

Factors Potentially Influencing Indoor Air Quality	Input
Is there an attached garage?	No
Is there smoking in the building?	No
Is there new carpet or furniture?	No
Have clothes or drapes been recently dry cleaned?	N/A
Has painting or staining been done within the last six months?	No
Has the building been recently remodeled?	No
Has the building ever had a fire?	No
Is there a hobby or craft area in the building?	No
Are cleaning solvents stored in the building (e.g., spot cleaner, gun cleaner)?	Yes
Is there a fuel oil tank on the property?	No
Is there a septic tank on the property?	No
Has the building been fumigated or sprayed for pests recently?	No
Historically the building was primarily used for?	Manufacturing
Do current building occupants use solvents at another location (e.g., work, hobby)?	Industrial Degreasing/Cleaning

Meteorological Conditions	Input
Weather:	
Outdoor Temperature - High (°F):	
Outdoor Temperature - Low (°F):	
Indoor Temperature (°F):	
Barometric Pressure Reading (mmHg):	
Wind Direction:	-
Average Wind Speed (mph):	
HVAC Setting for Current Season:	-

(End of Form)

Two parts cleaning stations and fuel storage drums are located in Media Blast Room. Fuel is removed from helicopters and stored in drums. Drums have small secondary containment skids.

APPENDIX D

Laboratory Analytical and Data Validation Reports



16 February 2021

Ben Chevlen
Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

H&P Project: ST020821-12
Client Project: 185804979 / Skypark Dr

Dear Ben Chevlen:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 05-Feb-21 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,



Lisa Eminhizer
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC) for the fields of proficiency and analytes listed on those certificates. H&P is approved as an Environmental Testing Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs for the fields of proficiency and analytes included in the certification process and to the extent offered by the accreditation agency. Unless otherwise noted, accreditation certificate numbers, expiration of certificates, and scope of accreditation can be found at: www.handpmg.com/about/certifications. Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.



Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IA-1	E102028-01	Vapor	05-Feb-21	05-Feb-21
IA-1 REP	E102028-02	Vapor	05-Feb-21	05-Feb-21
IA-2	E102028-03	Vapor	05-Feb-21	05-Feb-21
IA-3	E102028-04	Vapor	05-Feb-21	05-Feb-21
IA-4	E102028-05	Vapor	05-Feb-21	05-Feb-21
IA-5	E102028-06	Vapor	05-Feb-21	05-Feb-21
IA-6	E102028-07	Vapor	05-Feb-21	05-Feb-21
IA-7	E102028-08	Vapor	05-Feb-21	05-Feb-21
IA-8	E102028-09	Vapor	05-Feb-21	05-Feb-21
AA-1	E102028-10	Vapor	05-Feb-21	05-Feb-21
AA-2	E102028-11	Vapor	05-Feb-21	05-Feb-21
AA-3	E102028-12	Vapor	05-Feb-21	05-Feb-21

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

DETECTIONS SUMMARY

Sample ID: IA-1

Laboratory ID: E102028-01

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Dichlorodifluoromethane (F12)	1.0	1.0	ug/m3	EPA TO-15	
Chloromethane	1.4	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.5	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.85	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	3.2	0.60	ug/m3	EPA TO-15	
Benzene	0.84	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32	ug/m3	EPA TO-15	
Toluene	7.3	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	1.1	0.69	ug/m3	EPA TO-15	
m,p-Xylene	1.5	0.44	ug/m3	EPA TO-15	
o-Xylene	0.66	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.60	0.50	ug/m3	EPA TO-15	

Sample ID: IA-1 REP

Laboratory ID: E102028-02

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.3	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.78	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	3.3	0.60	ug/m3	EPA TO-15	
Benzene	0.81	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32	ug/m3	EPA TO-15	
Toluene	6.7	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	1.0	0.69	ug/m3	EPA TO-15	
Ethylbenzene	0.44	0.44	ug/m3	EPA TO-15	
m,p-Xylene	1.5	0.44	ug/m3	EPA TO-15	
o-Xylene	0.70	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.65	0.50	ug/m3	EPA TO-15	

Sample ID: IA-2

Laboratory ID: E102028-03

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Dichlorodifluoromethane (F12)	1.1	1.0	ug/m3	EPA TO-15	
Chloromethane	1.3	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.1	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.78	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	3.4	0.60	ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Sample ID: IA-2

Laboratory ID: E102028-03

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Benzene	0.84	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32		ug/m3	EPA TO-15	
Toluene	3.9	0.76		ug/m3	EPA TO-15	
Tetrachloroethene	1.2	0.69		ug/m3	EPA TO-15	
Ethylbenzene	0.44	0.44		ug/m3	EPA TO-15	
m,p-Xylene	1.5	0.44		ug/m3	EPA TO-15	
o-Xylene	0.70	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.75	0.50		ug/m3	EPA TO-15	

Sample ID: IA-3

Laboratory ID: E102028-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.3	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.3	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.88	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	3.3	0.60		ug/m3	EPA TO-15	
Benzene	1.3	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32		ug/m3	EPA TO-15	
Toluene	14	0.76		ug/m3	EPA TO-15	
Tetrachloroethene	1.5	0.69		ug/m3	EPA TO-15	
Ethylbenzene	1.1	0.44		ug/m3	EPA TO-15	
m,p-Xylene	3.9	0.44		ug/m3	EPA TO-15	
o-Xylene	1.8	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.4	0.50		ug/m3	EPA TO-15	

Sample ID: IA-4

Laboratory ID: E102028-05

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.3	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.88	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	4.0	0.60		ug/m3	EPA TO-15	
Benzene	1.4	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32		ug/m3	EPA TO-15	
Toluene	6.6	0.76		ug/m3	EPA TO-15	
Tetrachloroethene	1.4	0.69		ug/m3	EPA TO-15	
Ethylbenzene	0.88	0.44		ug/m3	EPA TO-15	
m,p-Xylene	3.2	0.44		ug/m3	EPA TO-15	
o-Xylene	1.3	0.44		ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Sample ID: IA-4

Laboratory ID: E102028-05

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,2,4-Trimethylbenzene	1.0	0.50	ug/m3	EPA TO-15	

Sample ID: IA-5

Laboratory ID: E102028-06

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.2	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.1	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.88	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	4.1	0.60	ug/m3	EPA TO-15	
Benzene	1.2	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32	ug/m3	EPA TO-15	
Toluene	7.8	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	1.2	0.69	ug/m3	EPA TO-15	
Ethylbenzene	0.92	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.4	0.44	ug/m3	EPA TO-15	
o-Xylene	1.5	0.44	ug/m3	EPA TO-15	
4-Ethyltoluene	0.50	0.50	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.4	0.50	ug/m3	EPA TO-15	

Sample ID: IA-6

Laboratory ID: E102028-07

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.2	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.2	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.88	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	3.4	0.60	ug/m3	EPA TO-15	
Benzene	1.2	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32	ug/m3	EPA TO-15	
Toluene	5.2	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	1.0	0.69	ug/m3	EPA TO-15	
Ethylbenzene	0.88	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.1	0.44	ug/m3	EPA TO-15	
o-Xylene	1.4	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.3	0.50	ug/m3	EPA TO-15	

Sample ID: IA-7

Laboratory ID: E102028-08

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.2	0.21	ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
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Sample ID: IA-7

Laboratory ID: E102028-08

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Trichlorofluoromethane (F11)	1.3	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.92	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	3.7	0.60	ug/m3	EPA TO-15	
Benzene	1.3	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32	ug/m3	EPA TO-15	
Toluene	5.6	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	0.90	0.69	ug/m3	EPA TO-15	
Ethylbenzene	0.92	0.44	ug/m3	EPA TO-15	
m,p-Xylene	3.2	0.44	ug/m3	EPA TO-15	
o-Xylene	1.4	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.3	0.50	ug/m3	EPA TO-15	

Sample ID: IA-8

Laboratory ID: E102028-09

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.2	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.3	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.92	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	3.9	0.60	ug/m3	EPA TO-15	
Benzene	1.3	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32	ug/m3	EPA TO-15	
Toluene	7.6	0.76	ug/m3	EPA TO-15	
Tetrachloroethene	1.0	0.69	ug/m3	EPA TO-15	
Ethylbenzene	1.1	0.44	ug/m3	EPA TO-15	
m,p-Xylene	4.1	0.44	ug/m3	EPA TO-15	
o-Xylene	1.7	0.44	ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	1.5	0.50	ug/m3	EPA TO-15	

Sample ID: AA-1

Laboratory ID: E102028-10

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
Chloromethane	1.3	0.21	ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	0.56	ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	1.1	0.35	ug/m3	EPA TO-15	
2-Butanone (MEK)	1.3	0.60	ug/m3	EPA TO-15	
Benzene	1.1	0.16	ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32	ug/m3	EPA TO-15	
Toluene	2.3	0.76	ug/m3	EPA TO-15	
Ethylbenzene	0.57	0.44	ug/m3	EPA TO-15	

Stantec - Thousand Oaks
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Project: ST020821-12
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Project Manager: Ben Chevlen

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Sample ID: AA-1

Laboratory ID: E102028-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
m,p-Xylene	2.0	0.44		ug/m3	EPA TO-15	
o-Xylene	0.88	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.90	0.50		ug/m3	EPA TO-15	

Sample ID: AA-2

Laboratory ID: E102028-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Chloromethane	1.4	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.4	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.78	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	3.0	0.60		ug/m3	EPA TO-15	
Benzene	0.81	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.57	0.32		ug/m3	EPA TO-15	
Toluene	1.7	0.76		ug/m3	EPA TO-15	
m,p-Xylene	1.1	0.44		ug/m3	EPA TO-15	
o-Xylene	0.48	0.44		ug/m3	EPA TO-15	

Sample ID: AA-3

Laboratory ID: E102028-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Dichlorodifluoromethane (F12)	1.0	1.0		ug/m3	EPA TO-15	
Chloromethane	1.2	0.21		ug/m3	EPA TO-15	
Trichlorofluoromethane (F11)	1.3	0.56		ug/m3	EPA TO-15	
Methylene chloride (Dichloromethane)	0.88	0.35		ug/m3	EPA TO-15	
2-Butanone (MEK)	2.6	0.60		ug/m3	EPA TO-15	
Benzene	0.74	0.16		ug/m3	EPA TO-15	
Carbon tetrachloride	0.51	0.32		ug/m3	EPA TO-15	
Toluene	1.8	0.76		ug/m3	EPA TO-15	
Ethylbenzene	0.53	0.44		ug/m3	EPA TO-15	
m,p-Xylene	1.8	0.44		ug/m3	EPA TO-15	
o-Xylene	0.75	0.44		ug/m3	EPA TO-15	
1,2,4-Trimethylbenzene	0.80	0.50		ug/m3	EPA TO-15	

Stantec - Thousand Oaks
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Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-1 (E102028-01) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	1.0	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.4	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.5	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.85	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.2	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.84	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	7.3	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.1	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.5	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.66	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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IA-1 (E102028-01) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Bromoform	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.60	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

108 % 76-134

" " " "

Surrogate: Toluene-d8

108 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

94.7 % 77-127

" " " "

IA-1 REP (E102028-02) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.4	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.78	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.3	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.81	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

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Reported:
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-1 REP (E102028-02) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	6.7	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.0	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.44	0.44	"	"	"	"	"	"	
m,p-Xylene	1.5	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.70	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.65	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		102 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	77-127		"	"	"	"	

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Reported:
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-2 (E102028-03) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	1.1	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.1	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.78	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.4	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.84	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	3.9	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.2	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.44	0.44	"	"	"	"	"	"	
m,p-Xylene	1.5	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.70	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-2 (E102028-03) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromoform	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.75	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.2 %	77-127		"	"	"	"	
IA-3 (E102028-04) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.3	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.88	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.3	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	1.3	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-3 (E102028-04) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	14	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.5	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	1.1	0.44	"	"	"	"	"	"	
m,p-Xylene	3.9	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	1.8	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.4	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		104 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
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Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-4 (E102028-05) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.4	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.88	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	4.0	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	1.4	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	6.6	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.4	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.88	0.44	"	"	"	"	"	"	
m,p-Xylene	3.2	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	1.3	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-4 (E102028-05) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromoform	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.0	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.3 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.1 %	77-127		"	"	"	"	
IA-5 (E102028-06) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.1	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.88	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	4.1	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	1.2	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Reported:
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-5 (E102028-06) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	7.8	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.2	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.92	0.44	"	"	"	"	"	"	
m,p-Xylene	3.4	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	1.5	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	0.50	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.4	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

94.9 % 76-134 " " " "
101 % 78-125 " " " "
114 % 77-127 " " " "

Stantec - Thousand Oaks
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Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-6 (E102028-07) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.2	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.88	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.4	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	1.2	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	5.2	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.0	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.88	0.44	"	"	"	"	"	"	
m,p-Xylene	3.1	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	1.4	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
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16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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IA-6 (E102028-07) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Bromoform	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.3	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

92.6 % 76-134

" " " "

Surrogate: Toluene-d8

101 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

109 % 77-127

" " " "

IA-7 (E102028-08) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.3	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.92	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.7	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	1.3	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

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16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-7 (E102028-08) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	5.6	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	0.90	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.92	0.44	"	"	"	"	"	"	
m,p-Xylene	3.2	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	1.4	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.3	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

93.4 % 76-134 " " " "
101 % 78-125 " " " "
110 % 77-127 " " " "

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
IA-8 (E102028-09) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.3	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.92	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.9	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	1.3	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	7.6	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	1.0	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	1.1	0.44	"	"	"	"	"	"	
m,p-Xylene	4.1	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	1.7	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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IA-8 (E102028-09) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Bromoform	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.5	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

92.9 % 76-134

" " " "

Surrogate: Toluene-d8

100 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

127 % 77-127

" " " "

AA-1 (E102028-10) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.3	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.4	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	1.1	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	1.3	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	1.1	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA-1 (E102028-10) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	2.3	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.57	0.44	"	"	"	"	"	"	
m,p-Xylene	2.0	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.88	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.90	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		102 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA-2 (E102028-11) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Dichlorodifluoromethane (F12)	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
Chloromethane	1.4	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.4	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.78	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	3.0	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.81	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.57	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	
Bromodichloromethane	ND	0.68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.7	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	ND	0.44	"	"	"	"	"	"	
m,p-Xylene	1.1	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.48	0.44	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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AA-2 (E102028-11) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Bromoform	ND	1.0	ug/m3	1	EB11106	11-Feb-21	11-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

95.7 % 76-134

" " " "

Surrogate: Toluene-d8

101 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

99.4 % 77-127

" " " "

AA-3 (E102028-12) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21

Dichlorodifluoromethane (F12)	1.0	1.0	ug/m3	1	EB11106	11-Feb-21	12-Feb-21	EPA TO-15	
Chloromethane	1.2	0.21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	0.71	"	"	"	"	"	"	
Vinyl chloride	ND	0.13	"	"	"	"	"	"	
Bromomethane	ND	0.39	"	"	"	"	"	"	
Chloroethane	ND	0.27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	1.3	0.56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	0.88	0.35	"	"	"	"	"	"	
Carbon disulfide	ND	0.32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.41	"	"	"	"	"	"	
2-Butanone (MEK)	2.6	0.60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.40	"	"	"	"	"	"	
Chloroform	ND	0.25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.41	"	"	"	"	"	"	
Benzene	0.74	0.16	"	"	"	"	"	"	
Carbon tetrachloride	0.51	0.32	"	"	"	"	"	"	
Trichloroethene	ND	0.55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
AA-3 (E102028-12) Vapor Sampled: 05-Feb-21 Received: 05-Feb-21									
Bromodichloromethane	ND	0.68	ug/m3	1	EB11106	11-Feb-21	12-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	0.83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.46	"	"	"	"	"	"	
Toluene	1.8	0.76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	0.83	"	"	"	"	"	"	
Dibromochloromethane	ND	1.7	"	"	"	"	"	"	
Tetrachloroethene	ND	0.69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
Chlorobenzene	ND	0.47	"	"	"	"	"	"	
Ethylbenzene	0.53	0.44	"	"	"	"	"	"	
m,p-Xylene	1.8	0.44	"	"	"	"	"	"	
Styrene	ND	0.43	"	"	"	"	"	"	
o-Xylene	0.75	0.44	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.70	"	"	"	"	"	"	
4-Ethyltoluene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.80	0.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.7	"	"	"	"	"	"	
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Surrogate: 1,2-Dichloroethane-d4		96.6 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		102 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		132 %	77-127		"	"	"	"	S-GC

Stantec - Thousand Oaks
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Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB11106 - TO-15

Blank (EB11106-BLK1)

Prepared & Analyzed: 11-Feb-21

Dichlorodifluoromethane (F12)	ND	1.0	ug/m3
Chloromethane	ND	0.21	"
Dichlorotetrafluoroethane (F114)	ND	0.71	"
Vinyl chloride	ND	0.13	"
Bromomethane	ND	0.39	"
Chloroethane	ND	0.27	"
Trichlorofluoromethane (F11)	ND	0.56	"
1,1-Dichloroethene	ND	0.40	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	0.77	"
Methylene chloride (Dichloromethane)	ND	0.35	"
Carbon disulfide	ND	0.32	"
trans-1,2-Dichloroethene	ND	0.40	"
1,1-Dichloroethane	ND	0.41	"
2-Butanone (MEK)	ND	0.60	"
cis-1,2-Dichloroethene	ND	0.40	"
Chloroform	ND	0.25	"
1,1,1-Trichloroethane	ND	0.55	"
1,2-Dichloroethane (EDC)	ND	0.41	"
Benzene	ND	0.16	"
Carbon tetrachloride	ND	0.32	"
Trichloroethene	ND	0.55	"
1,2-Dichloropropane	ND	0.47	"
Bromodichloromethane	ND	0.68	"
cis-1,3-Dichloropropene	ND	0.46	"
4-Methyl-2-pentanone (MIBK)	ND	0.83	"
trans-1,3-Dichloropropene	ND	0.46	"
Toluene	ND	0.76	"
1,1,2-Trichloroethane	ND	0.55	"
2-Hexanone (MBK)	ND	0.83	"
Dibromochloromethane	ND	1.7	"
Tetrachloroethene	ND	0.69	"
1,2-Dibromoethane (EDB)	ND	0.78	"
1,1,1,2-Tetrachloroethane	ND	0.70	"
Chlorobenzene	ND	0.47	"

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB11106 - TO-15

Blank (EB11106-BLK1)

Prepared & Analyzed: 11-Feb-21

Ethylbenzene	ND	0.44	ug/m3
m,p-Xylene	ND	0.44	"
Styrene	ND	0.43	"
o-Xylene	ND	0.44	"
Bromoform	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	0.70	"
4-Ethyltoluene	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.61	"
1,4-Dichlorobenzene	ND	0.61	"
1,2-Dichlorobenzene	ND	0.61	"
1,2,4-Trichlorobenzene	ND	1.9	"
Hexachlorobutadiene	ND	2.7	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>43.0</i>	<i>"</i>	<i>42.7</i>	<i>101</i>	<i>76-134</i>
<i>Surrogate: Toluene-d8</i>	<i>43.5</i>	<i>"</i>	<i>41.6</i>	<i>105</i>	<i>78-125</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>65.1</i>	<i>"</i>	<i>72.6</i>	<i>89.7</i>	<i>77-127</i>

LCS (EB11106-BS1)

Prepared & Analyzed: 11-Feb-21

Dichlorodifluoromethane (F12)	17.9	1.0	ug/m3	20.2	88.6	59-128
Vinyl chloride	9.5	0.13	"	10.4	91.2	64-127
Chloroethane	12.1	0.27	"	10.7	113	63-127
Trichlorofluoromethane (F11)	19.3	0.56	"	22.6	85.2	62-126
1,1-Dichloroethene	13.3	0.40	"	16.2	82.2	61-133
1,1,2-Trichlorotrifluoroethane (F113)	26.4	0.77	"	31.0	85.0	66-126
Methylene chloride (Dichloromethane)	10.5	0.35	"	14.2	74.4	62-115
trans-1,2-Dichloroethene	12.7	0.40	"	16.2	78.7	67-124
1,1-Dichloroethane	13.1	0.41	"	16.5	79.2	68-126
cis-1,2-Dichloroethene	13.0	0.40	"	16.0	81.2	70-121
Chloroform	16.6	0.25	"	19.8	83.8	68-123
1,1,1-Trichloroethane	19.0	0.55	"	22.2	85.6	68-125
1,2-Dichloroethane (EDC)	13.8	0.41	"	16.5	83.5	65-128
Benzene	10.6	0.16	"	13.0	81.6	69-119

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB11106 - TO-15

LCS (EB11106-BS1)

Prepared & Analyzed: 11-Feb-21

Carbon tetrachloride	21.9	0.32	ug/m3	25.6		85.6	68-132			
Trichloroethene	19.3	0.55	"	21.9		88.0	71-123			
Toluene	13.1	0.76	"	15.4		85.2	66-119			
1,1,2-Trichloroethane	18.7	0.55	"	22.2		84.1	73-119			
Tetrachloroethene	22.8	0.69	"	27.6		82.6	66-124			
1,1,1,2-Tetrachloroethane	24.8	0.70	"	28.0		88.6	67-129			
Ethylbenzene	14.6	0.44	"	17.7		82.3	70-124			
m,p-Xylene	13.2	0.44	"	17.7		74.6	61-134			
o-Xylene	14.3	0.44	"	17.7		80.8	67-125			
1,1,2,2-Tetrachloroethane	18.6	0.70	"	28.0		66.4	65-127			

Surrogate: 1,2-Dichloroethane-d4	44.1		"	42.7		103	76-134			
Surrogate: Toluene-d8	42.9		"	41.6		103	78-125			
Surrogate: 4-Bromofluorobenzene	70.8		"	72.6		97.6	77-127			

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST020821-12
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

LCC Leak Check Compound

ND Analyte NOT DETECTED at or above the reporting limit

MDL Method Detection Limit

%REC Percent Recovery

RPD Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJA, accreditation number 69070 for EPA Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

Lab Client and Project Information			
Lab Client/Consultant: <u>Stantec</u>		Project Name / #: <u>185804979</u>	
Lab Client Project Manager: <u>Ben Chevien</u>		Project Location: <u>2530/2540 Skypark Dr. Torrance</u>	
Lab Client Address: <u>290 Conejo Ridge Ave</u>		Report E-Mail(s): <u>lewis.simons@stantec.com</u>	
Lab Client City, State, Zip: <u>Thousand Oaks, CA 91361</u>		<u>ben.chevien@stantec.com</u>	
Phone Number: <u>562-799-9866</u>			
Reporting Requirements		Turnaround Time	
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____		<input checked="" type="checkbox"/> Standard (7 days for preliminary report, 10 days for final report) <input type="checkbox"/> Rush (specify): _____	
		Sampler Information	
		Sampler(s): <u>J. Arellano, B. Villa</u>	
		Signature: <u>[Signature]</u>	
		Date: <u>02/05/21</u>	

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>2/8/21</u>	Control #: <u>210085.03</u>
H&P Project #: <u>STD20821-12</u>	
Lab Work Order #: <u>E102028</u>	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: <u>60206</u>	Temp: <u>RT</u>
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: <u>UB</u>	

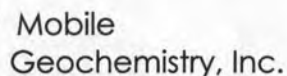
Additional Instructions to Laboratory:

* Preferred VOC units (please choose one):

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac														
								VOCs Standard Full List	VOCs Short List / Project List	Oxygenates	Naphthalene	TPHV as Gas	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945					
IA-1		02/05/21	1749	IA	6L	490	-2.05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-1 REP			1749	IA	6L	486	-2.21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-2			1748	IA	6L	502	-3.35	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-3			1747	IA	6L	489	-3.64	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-4			1746	IA	6L	485	-5.42	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-5			1753	IA	6L	488	-4.46	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-6			1745	IA	6L	487	-3.86	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-7			1742	IA	6L	504	-2.24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
IA-8			1754	IA	6L	501	-5.22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
AA-1			1818	AA	6L	503	-7.76	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Approved/Relinquished by: <u>Emily Medler</u>	Company: <u>Stantec</u>	Date: <u>2/5/21</u>	Time: <u>1925</u>	Received by: <u>[Signature]</u>	Company: <u>H&P</u>	Date: <u>02/05/21</u>	Time: <u>1925</u>
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:



2470 Impala Drive, Carlsbad, CA 92010
 & Field Office - Signal Hill, CA
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 P 760.804.9678 F 760.804.9159

DATE: 02/05/21
Page 2 of 4

Lab Client and Project Information		
Lab Client/Consultant:	Stantec	Project Name / #:
Lab Client Project Manager:	Lewis Simons	Project Location:
Lab Client Address:	290 Conejo Ridge Ave	Report E-Mail(s):
Lab Client City, State, Zip:	Thousand Oaks, CA 91361	
Phone Number:	562-799-9866	
Reporting Requirements	Turnaround Time	Sampler Information
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____	<input checked="" type="checkbox"/> Standard (7 days for preliminary report, 10 days for final report) <input type="checkbox"/> Rush (specify): _____	Sampler(s): J. Arellano B. Villa Signature: [Signature] Date: 02/05/24

Sample Receipt (Lab Use Only)		
Date Rec'd: 2/8/21	Control #: 210085.02	
H&P Project #	STD20821-12	
Lab Work Order #	E 102028	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below		
Receipt Gauge ID: W0204	Temp: RT	
Outside Lab:		
Receipt Notes/Tracking #:		
Lab PM Initials:		WLB

* Preferred VOC units (please choose one):

☐ $\mu\text{g/L}$ ☒ $\mu\text{g/m}^3$ ☐ ppbv ☐ ppmv[illegible]

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Appendix 6A1, Rev 1/9/2019, Effective 1/21/2019

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 2530/2540 skyports Dr

Consultant: stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villanueva Scanned: T. L...

		SAMPLE ID: IA-1							
Summa ID #:	490	Start Date:	02-05-21	Check Date:	02-05-21	Check Date:	02-05-21	End Date:	02-05-21
Flow Cont ID #:	F242	Start Time:	0748	Check Time:	1117	Check Time:	1424	End Time:	1749
Flow Rate (hrs or cc/min):	10Hr	Start Vacuum ("Hg):	-30	Check Vac ("Hg):	-27	Check Vac ("Hg):	-14	End Vac ("Hg):	-4

Summa Canister Height above Ground (ft): 5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30 inHg</u>	Weather Conditions: <u>A.M. - Overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 2570/2540 Leypark Dr

Consultant: Stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano P. Villareal Scanned: Thomas

		SAMPLE ID: <u>IA-1 Pup</u>							
Summa ID #:	<u>486</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	End Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F222</u>	Start Time:	<u>0748</u>	Check Time:	<u>1117</u>	Check Time:	<u>1424</u>	End Time:	<u>1748</u> <u>1749</u> <u>(SV)</u>
Flow Rate (hrs or cc/min):	<u>10 Hr</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-20</u>	Check Vac ("Hg):	<u>-11</u>	End Vac ("Hg):	<u>-4</u> <u>(SV)</u> <u>-2</u>

Summa Canister Height above Ground (ft): 5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30 in Hg</u>	Weather Conditions: <u>A.M. - overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020921-TECH
Site Address: 2530/2540 Skypark Dr

Consultant: stater
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano, B.V. Narvaiz Scanned: TLW

		SAMPLE ID: IA-2							
Summa ID #:	502	Start Date:	02-05-21	Check Date:	02-05-21	Check Date:	02-05-21	End Date:	02-05-21
Flow Cont ID #:	F239	Start Time:	0747	Check Time:	1116	Check Time:	1423	End Time:	1748
Flow Rate (hrs or cc/min):	104.	Start Vacuum ("Hg):	-30	Check Vac ("Hg):	-22	Check Vac ("Hg):	-14	End Vac ("Hg):	-4

Summa Canister Height above Ground (ft): 5'
Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):
Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30.1 inHg</u>	Weather Conditions: <u>A.M. - Overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020921-TECH
Site Address: 2530/2540 sky park Dr

Consultant: Stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano, P. Villanueva Scanned: Thomas

		SAMPLE ID: <u>IA-3</u>							
Summa ID #:	<u>489</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	End Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F235</u>	Start Time:	<u>0752</u>	Check Time:	<u>1120</u>	Check Time:	<u>1425</u>	End Time:	<u>1747</u>
Flow Rate (hrs or cc/min):	<u>10 Hr</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-22</u>	Check Vac ("Hg):	<u>-14</u>	End Vac ("Hg):	<u>-5</u>

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30.1 in Hg</u>	Weather Conditions: <u>A.M. - Overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: 5T020621-TECH
Site Address: 2530/2840 Skyway Dr

Consultant: stater
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano, D. Villareale Scanned: Thoms

		SAMPLE ID: IA-2 ¹ IA-4							
Summa ID #:	485	Start Date:	02-05-21	Check Date:	02-05-21	Check Date:	02-05-21	End Date:	02-09-21
Flow Cont ID #:	F213	Start Time:	0746	Check Time:	1114	Check Time:	1423	End Time:	1746
Flow Rate (hrs or cc/min):	10 Hr	Start Vacuum ("Hg):	-30	Check Vac ("Hg):	-22	Check Vac ("Hg):	-14	End Vac ("Hg):	-6

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):
Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30 inHg</u>	Weather Conditions: <u>AM. - overcast</u> <u>P.M. - sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 257012540 S/lyparks Dr

Consultant: Startec
Consultant Rep: Emily Medler Reviewed: EL
H&P Rep: J. Arellano, B. Villanarosa Scanned: T6-5

		SAMPLE ID: <u>IA-5</u>							
Summa ID #:	<u>488</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	End Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F227</u>	Start Time:	<u>0756</u>	Check Time:	<u>1120</u>	Check Time:	<u>1426</u>	End Time:	<u>1753</u>
Flow Rate (hrs or cc/min):	<u>10Hr</u>	Start Vacuum ("Hg):	<u>-30+</u>	Check Vac ("Hg):	<u>-23</u>	Check Vac ("Hg):	<u>-15</u>	End Vac ("Hg):	<u>-6</u>

Summa Canister Height above Ground (ft): 5
Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):
Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30.1 inHg</u>	Weather Conditions: <u>A.M. - overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 2570/2540 skyport Dr

Consultant: stater
Consultant Rep: Emily Medlar Reviewed: EC
H&P Rep: J. Arellano, B. Villanueva Scanned: Thurs

SAMPLE ID: <u>IA-6</u>							
Summa ID #:	<u>487</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F227</u>	Start Time:	<u>0744</u>	Check Time:	<u>1113</u>	Check Time:	<u>1422</u>
Flow Rate (hrs or cc/min):	<u>10 Hr</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-24</u>	Check Vac ("Hg):	<u>-16</u>
						End Vac ("Hg):	<u>-4</u>

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30.1 inHg</u>	Weather Conditions: <u>A.M. - Overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH

Consultant: Stantec

Site Address: 2530/2540 skipper Dr

Consultant Rep: Emily Medler

Reviewed: EC

H&P Rep: S. Arellano, B. Villanueva Scanned: Thomas

		SAMPLE ID: <u>IA-7</u>					
Summa ID #:	<u>504</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F245</u>	Start Time:	<u>0743</u>	Check Time:	<u>1113</u>	Check Time:	<u>1421</u>
Flow Rate (hrs or cc/min):	<u>10 Hr</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-23</u>	Check Vac ("Hg):	<u>-13</u>
						End Vac ("Hg):	<u>-4</u>

Summa Canister Height above Ground (ft): 5'

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F): <u>64</u>	Barometric Pressure: <u>30 in Hg</u>	Weather Conditions: <u>A.M. - Overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F): <u>48</u>	Wind Speed: <u>4 mph</u>	
Indoor Temp Avg (F): <u>70</u>	Wind Direction: <u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 2570/2540 Skypark Dr

Consultant: Stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano/B. Villareal Scanned: Floral

SAMPLE ID: <u>IA-8</u>					
Summa ID #:	<u>501</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F231</u>	Start Time:	<u>0754</u>	Check Time:	<u>1121</u>
Flow Rate (hrs or cc/min):	<u>10 Hr</u>	Start Vacuum ("Hg):	<u>-26</u>	Check Vac ("Hg):	<u>-18</u>
				Check Vac ("Hg):	<u>-10</u>
				End Vac ("Hg):	<u>-4</u>

Summa Canister Height above Ground (ft): 5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30 in Hg</u>	Weather Conditions: <u>A.M. - overcast</u> <u>P.M. - sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 2530/2540 Skyhawk Dr

Consultant: Stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villanueva Scanned: Flors

		SAMPLE ID: <u>AA-1</u>					
Summa ID #:	<u>503</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F215</u>	Start Time:	<u>0813</u>	Check Time:	<u>1126</u>	Check Time:	<u>1439</u>
Flow Rate (hrs or cc/min):	<u>10 Hr</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-23</u>	Check Vac ("Hg):	<u>-15</u>
						End Date:	<u>02-05-21</u>
						End Time:	<u>1818</u>
						End Vac ("Hg):	<u>-9</u>

Summa Canister Height above Ground (ft): 5.5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30 in Hg</u>	Weather Conditions: <u>A.M. - overcast</u> <u>P.M. - Sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020541-TECH
Site Address: 2520/2540 Skypark Dr

Consultant: stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano, B. Villarreal Scanned: T6-S

SAMPLE ID: <u>AA-2</u>					
Summa ID #:	<u>505</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F214</u>	Start Time:	<u>0803</u>	Check Time:	<u>1108</u>
Flow Rate (hrs or cc/min):	<u>10 Hr</u>	Start Vacuum ("Hg):	<u>-30+</u>	Check Vac ("Hg):	<u>-24</u>
				Check Vac ("Hg):	<u>-14</u>
				End Vac ("Hg):	<u>-7</u>

Summa Canister Height above Ground (ft): 5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30.1 inHg</u>	Weather Conditions: <u>A.M. - overcast</u> <u>P.M. - sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals
<u>N/A</u>	<u>No / know</u>

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location
<u>Traffic</u>	<u>Parking lot</u>

Log Sheet: Indoor/Ambient Air Sampling

H&P Project #: ST020521-TECH
Site Address: 257012540 shypark Dr

Consultant: stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Amellano, D. Villareal Scanned: thms

SAMPLE ID: <u>AA-3</u>							
Summa ID #:	<u>851</u>	Start Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>	Check Date:	<u>02-05-21</u>
Flow Cont ID #:	<u>F224</u>	Start Time:	<u>0808</u>	Check Time:	<u>1110</u>	Check Time:	<u>1435</u>
Flow Rate (hrs or cc/min):	<u>10 Hr.</u>	Start Vacuum ("Hg):	<u>-30+</u>	Check Vac ("Hg):	<u>-25</u>	Check Vac ("Hg):	<u>-14</u>
						End Date:	<u>02-05-21</u>
						End Time:	<u>1812</u>
						End Vac ("Hg):	<u>-5</u>

Summa Canister Height above Ground (ft): 5

Description of Summa Canister Placement:

DIAGRAM (and/or send photo to H&P PM):

Photo sent to pm

Outdoor Temp Hi (F):	<u>64</u>	Barometric Pressure:	<u>30.1 in Hg</u>	Weather Conditions: <u>A.M - overcast</u> <u>P.M - sunny</u>
Outdoor Temp Low (F):	<u>48</u>	Wind Speed:	<u>4 mph</u>	
Indoor Temp Avg (F):	<u>70</u>	Wind Direction:	<u>NW</u>	

PRODUCT INVENTORY (nearby products that may contain chemicals of concern; continue on back if needed):

Name of Product	List of Chemicals

OUTDOOR SOURCES (possible sources of chemicals of concern from outdoor activities; continue on back if needed):

Source	Location

24 February 2021

Lewis Simons
Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

H&P Project: ST021221-12
Client Project: 185804979 / Skypark Dr

Dear Lewis Simons:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 10-Feb-21 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody
- Sampling Logs (if applicable)

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,



Lisa Eminhizer
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP and the National Environmental Laboratory Accreditation Conference (NELAC) for the fields of proficiency and analytes listed on those certificates. H&P is approved as an Environmental Testing Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs for the fields of proficiency and analytes included in the certification process and to the extent offered by the accreditation agency. Unless otherwise noted, accreditation certificate numbers, expiration of certificates, and scope of accreditation can be found at: www.handpmg.com/about/certifications. Fields of services and analytes contained in this report that are not listed on the certificates should be considered uncertified or unavailable for certification.



Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-7	E102047-01	Vapor	10-Feb-21	10-Feb-21
VP-6	E102047-02	Vapor	10-Feb-21	10-Feb-21
VP-4	E102047-03	Vapor	10-Feb-21	10-Feb-21
VP-2	E102047-04	Vapor	10-Feb-21	10-Feb-21
VP-1	E102047-05	Vapor	10-Feb-21	10-Feb-21
VP-1 Dup	E102047-06	Vapor	10-Feb-21	10-Feb-21
VP-3	E102047-07	Vapor	10-Feb-21	10-Feb-21
VP-5	E102047-08	Vapor	10-Feb-21	10-Feb-21
VP-8	E102047-09	Vapor	10-Feb-21	10-Feb-21

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

DETECTIONS SUMMARY

Sample ID: **VP-7**

Laboratory ID: **E102047-01**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	180	15	ug/m3	EPA TO-15	
Toluene	18	7.6	ug/m3	EPA TO-15	
Tetrachloroethene	3600	14	ug/m3	EPA TO-15	

Sample ID: **VP-6**

Laboratory ID: **E102047-02**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	240	39	ug/m3	EPA TO-15	
Toluene	23	19	ug/m3	EPA TO-15	
Tetrachloroethene	8500	34	ug/m3	EPA TO-15	

Sample ID: **VP-4**

Laboratory ID: **E102047-03**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	220	150	ug/m3	EPA TO-15	
Tetrachloroethene	43000	140	ug/m3	EPA TO-15	

Sample ID: **VP-2**

Laboratory ID: **E102047-04**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	340	77	ug/m3	EPA TO-15	
Toluene	63	38	ug/m3	EPA TO-15	
Tetrachloroethene	26000	69	ug/m3	EPA TO-15	

Sample ID: **VP-1**

Laboratory ID: **E102047-05**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	750	39	ug/m3	EPA TO-15	
Trichloroethene	75	27	ug/m3	EPA TO-15	
Toluene	19	19	ug/m3	EPA TO-15	
Tetrachloroethene	5700	34	ug/m3	EPA TO-15	

Sample ID: **VP-1 Dup**

Laboratory ID: **E102047-06**

Analyte	Result	Reporting	Units	Method	Notes
		Limit			
1,1,2-Trichlorotrifluoroethane (F113)	810	39	ug/m3	EPA TO-15	
Trichloroethene	77	27	ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Sample ID: **VP-1 Dup**

Laboratory ID: **E102047-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	6000	34	ug/m3	EPA TO-15	

Sample ID: **VP-3**

Laboratory ID: **E102047-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2-Trichlorotrifluoroethane (F113)	360	39	ug/m3	EPA TO-15	
Toluene	21	19	ug/m3	EPA TO-15	
Tetrachloroethene	13000	34	ug/m3	EPA TO-15	

Sample ID: **VP-5**

Laboratory ID: **E102047-08**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2-Trichlorotrifluoroethane (F113)	260	15	ug/m3	EPA TO-15	
Toluene	21	7.6	ug/m3	EPA TO-15	
Tetrachloroethene	3200	14	ug/m3	EPA TO-15	

Sample ID: **VP-8**

Laboratory ID: **E102047-09**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1,2-Trichlorotrifluoroethane (F113)	160	7.7	ug/m3	EPA TO-15	
Benzene	4.8	3.2	ug/m3	EPA TO-15	
Toluene	14	3.8	ug/m3	EPA TO-15	
Tetrachloroethene	670	6.9	ug/m3	EPA TO-15	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Soil Vapor/Air Analysis by ASTM D1945M

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-7 (E102047-01) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-6 (E102047-02) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-4 (E102047-03) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-2 (E102047-04) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-1 (E102047-05) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-1 Dup (E102047-06) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-3 (E102047-07) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-5 (E102047-08) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	
VP-8 (E102047-09) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Helium (LCC)	ND	0.10	%	1	EB11714	17-Feb-21	17-Feb-21	ASTM D1945M	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-7 (E102047-01) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Dichlorodifluoromethane (F12)	ND	10	ug/m3	2	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	4.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	14	"	"	"	"	"	"	
Vinyl chloride	ND	5.2	"	"	"	"	"	"	
Bromomethane	ND	32	"	"	"	"	"	"	
Chloroethane	ND	16	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	11	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	180	15	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	7.1	"	"	"	"	"	"	
Carbon disulfide	ND	13	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	16	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.2	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
Chloroform	ND	9.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	8.2	"	"	"	"	"	"	
Benzene	ND	6.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	11	"	"	"	"	"	"	
1,2-Dichloropropane	ND	19	"	"	"	"	"	"	
Bromodichloromethane	ND	14	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	9.2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	17	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	9.2	"	"	"	"	"	"	
Toluene	18	7.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	11	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	17	"	"	"	"	"	"	
Dibromochloromethane	ND	17	"	"	"	"	"	"	
Tetrachloroethene	3600	14	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	16	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	14	"	"	"	"	"	"	
Chlorobenzene	ND	9.4	"	"	"	"	"	"	
Ethylbenzene	ND	8.8	"	"	"	"	"	"	
m,p-Xylene	ND	18	"	"	"	"	"	"	
Styrene	ND	8.6	"	"	"	"	"	"	
o-Xylene	ND	8.8	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-7 (E102047-01) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Bromoform	ND	21	ug/m3	2	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	14	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

105 % 76-134

" " " "

Surrogate: Toluene-d8

105 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

88.7 % 77-127

" " " "

VP-6 (E102047-02) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	79	"	"	"	"	"	"	
Chloroethane	ND	40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	240	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-6 (E102047-02) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Bromodichloromethane	ND	34	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
Toluene	23	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	43	"	"	"	"	"	"	
Tetrachloroethene	8500	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	22	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	52	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
4-Ethyltoluene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		106 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		104 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.4 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
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Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-4 (E102047-03) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Dichlorodifluoromethane (F12)	ND	100	ug/m3	20	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	41	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	140	"	"	"	"	"	"	
Vinyl chloride	ND	52	"	"	"	"	"	"	
Bromomethane	ND	320	"	"	"	"	"	"	
Chloroethane	ND	160	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	110	"	"	"	"	"	"	
1,1-Dichloroethene	ND	80	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	220	150	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	71	"	"	"	"	"	"	
Carbon disulfide	ND	130	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	"	"	"	"	"	"	
1,1-Dichloroethane	ND	82	"	"	"	"	"	"	
2-Butanone (MEK)	ND	600	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	80	"	"	"	"	"	"	
Chloroform	ND	99	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	110	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	82	"	"	"	"	"	"	
Benzene	ND	65	"	"	"	"	"	"	
Carbon tetrachloride	ND	130	"	"	"	"	"	"	
Trichloroethene	ND	110	"	"	"	"	"	"	
1,2-Dichloropropane	ND	190	"	"	"	"	"	"	
Bromodichloromethane	ND	140	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	92	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	170	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	92	"	"	"	"	"	"	
Toluene	ND	76	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	110	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	170	"	"	"	"	"	"	
Dibromochloromethane	ND	170	"	"	"	"	"	"	
Tetrachloroethene	43000	140	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	140	"	"	"	"	"	"	
Chlorobenzene	ND	94	"	"	"	"	"	"	
Ethylbenzene	ND	88	"	"	"	"	"	"	
m,p-Xylene	ND	180	"	"	"	"	"	"	
Styrene	ND	86	"	"	"	"	"	"	
o-Xylene	ND	88	"	"	"	"	"	"	

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24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-4 (E102047-03) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Bromoform	ND	210	ug/m3	20	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	140	"	"	"	"	"	"	
4-Ethyltoluene	ND	100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	100	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	240	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	240	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	240	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	750	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1100	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

108 % 76-134

" " " "

Surrogate: Toluene-d8

105 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

86.3 % 77-127

" " " "

VP-2 (E102047-04) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Dichlorodifluoromethane (F12)	ND	50	ug/m3	10	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	26	"	"	"	"	"	"	
Bromomethane	ND	160	"	"	"	"	"	"	
Chloroethane	ND	80	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
1,1-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	340	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	63	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	80	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	300	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Chloroform	ND	49	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	55	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	41	"	"	"	"	"	"	
Benzene	ND	32	"	"	"	"	"	"	
Carbon tetrachloride	ND	64	"	"	"	"	"	"	
Trichloroethene	ND	55	"	"	"	"	"	"	
1,2-Dichloropropane	ND	94	"	"	"	"	"	"	

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Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-2 (E102047-04) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Bromodichloromethane	ND	68	ug/m3	10	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	83	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	63	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	83	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	26000	69	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	78	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	47	"	"	"	"	"	"	
Ethylbenzene	ND	44	"	"	"	"	"	"	
m,p-Xylene	ND	88	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	ND	44	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	380	"	"	"	"	"	"	
Hexachlorobutadiene	ND	540	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		102 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-1 (E102047-05) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	79	"	"	"	"	"	"	
Chloroethane	ND	40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	750	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	75	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
Toluene	19	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	43	"	"	"	"	"	"	
Tetrachloroethene	5700	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	22	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	

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Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-1 (E102047-05) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Bromoform	ND	52	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
4-Ethyltoluene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	76-134	"	"	"	"
Surrogate: Toluene-d8	104 %	78-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	87.8 %	77-127	"	"	"	"

VP-1 Dup (E102047-06) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	79	"	"	"	"	"	"	
Chloroethane	ND	40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	810	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	77	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	

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Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-1 Dup (E102047-06) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Bromodichloromethane	ND	34	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
Toluene	ND	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	43	"	"	"	"	"	"	
Tetrachloroethene	6000	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	22	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	52	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
4-Ethyltoluene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		103 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.9 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-3 (E102047-07) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Dichlorodifluoromethane (F12)	ND	25	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	10	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	35	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	79	"	"	"	"	"	"	
Chloroethane	ND	40	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	28	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	360	39	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	18	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
1,1-Dichloroethane	ND	21	"	"	"	"	"	"	
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	20	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	32	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	34	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	23	"	"	"	"	"	"	
Toluene	21	19	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	28	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	43	"	"	"	"	"	"	
Tetrachloroethene	13000	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	22	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	

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24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
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VP-3 (E102047-07) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Bromoform	ND	52	ug/m3	5	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	35	"	"	"	"	"	"	
4-Ethyltoluene	ND	25	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	190	"	"	"	"	"	"	
Hexachlorobutadiene	ND	270	"	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4

108 % 76-134

" " " "

Surrogate: Toluene-d8

102 % 78-125

" " " "

Surrogate: 4-Bromofluorobenzene

86.5 % 77-127

" " " "

VP-5 (E102047-08) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21

Dichlorodifluoromethane (F12)	ND	10	ug/m3	2	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	4.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	14	"	"	"	"	"	"	
Vinyl chloride	ND	5.2	"	"	"	"	"	"	
Bromomethane	ND	32	"	"	"	"	"	"	
Chloroethane	ND	16	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	11	"	"	"	"	"	"	
1,1-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	260	15	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	7.1	"	"	"	"	"	"	
Carbon disulfide	ND	13	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	16	"	"	"	"	"	"	
1,1-Dichloroethane	ND	8.2	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
Chloroform	ND	9.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	11	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	8.2	"	"	"	"	"	"	
Benzene	ND	6.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Trichloroethene	ND	11	"	"	"	"	"	"	
1,2-Dichloropropane	ND	19	"	"	"	"	"	"	

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Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-5 (E102047-08) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Bromodichloromethane	ND	14	ug/m3	2	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
cis-1,3-Dichloropropene	ND	9.2	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	17	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	9.2	"	"	"	"	"	"	
Toluene	21	7.6	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	11	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	17	"	"	"	"	"	"	
Dibromochloromethane	ND	17	"	"	"	"	"	"	
Tetrachloroethene	3200	14	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	16	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	14	"	"	"	"	"	"	
Chlorobenzene	ND	9.4	"	"	"	"	"	"	
Ethylbenzene	ND	8.8	"	"	"	"	"	"	
m,p-Xylene	ND	18	"	"	"	"	"	"	
Styrene	ND	8.6	"	"	"	"	"	"	
o-Xylene	ND	8.8	"	"	"	"	"	"	
Bromoform	ND	21	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	14	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	24	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		105 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.4 %	77-127		"	"	"	"	

Stantec - Thousand Oaks
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Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-8 (E102047-09) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Dichlorodifluoromethane (F12)	ND	5.0	ug/m3	1	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
Chloromethane	ND	2.1	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	7.1	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
Bromomethane	ND	16	"	"	"	"	"	"	
Chloroethane	ND	8.0	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	5.6	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	160	7.7	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	3.5	"	"	"	"	"	"	
Carbon disulfide	ND	6.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	8.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
2-Butanone (MEK)	ND	30	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
Chloroform	ND	4.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.5	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	4.1	"	"	"	"	"	"	
Benzene	4.8	3.2	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	9.4	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	8.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
Toluene	14	3.8	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.5	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	8.3	"	"	"	"	"	"	
Dibromochloromethane	ND	8.6	"	"	"	"	"	"	
Tetrachloroethene	670	6.9	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
Styrene	ND	4.3	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VP-8 (E102047-09) Vapor Sampled: 10-Feb-21 Received: 10-Feb-21									
Bromoform	ND	10	ug/m3	1	EB12316	23-Feb-21	23-Feb-21	EPA TO-15	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	12	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	38	"	"	"	"	"	"	
Hexachlorobutadiene	ND	54	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	76-134		"	"	"	"	
Surrogate: Toluene-d8		104 %	78-125		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	77-127		"	"	"	"	

Stantec - Thousand Oaks	Project: ST021221-12	
290 Conejo Ridge Avenue, Suite 200	Project Number: 185804979 / Skypark Dr	Reported:
Thousand Oaks, CA 91361	Project Manager: Lewis Simons	24-Feb-21 12:00

Soil Vapor/Air Analysis by ASTM D1945M - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB11714 - GC

Blank (EB11714-BLK1)	Prepared & Analyzed: 17-Feb-21									
Helium (LCC)	ND	0.10	%							

Stantec - Thousand Oaks
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Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB12316 - TO-15

Blank (EB12316-BLK1)

Prepared & Analyzed: 23-Feb-21

Dichlorodifluoromethane (F12)	ND	5.0	ug/m3
Chloromethane	ND	2.1	"
Dichlorotetrafluoroethane (F114)	ND	7.1	"
Vinyl chloride	ND	2.6	"
Bromomethane	ND	16	"
Chloroethane	ND	8.0	"
Trichlorofluoromethane (F11)	ND	5.6	"
1,1-Dichloroethene	ND	4.0	"
1,1,2-Trichlorotrifluoroethane (F113)	ND	7.7	"
Methylene chloride (Dichloromethane)	ND	3.5	"
Carbon disulfide	ND	6.3	"
trans-1,2-Dichloroethene	ND	8.0	"
1,1-Dichloroethane	ND	4.1	"
2-Butanone (MEK)	ND	30	"
cis-1,2-Dichloroethene	ND	4.0	"
Chloroform	ND	4.9	"
1,1,1-Trichloroethane	ND	5.5	"
1,2-Dichloroethane (EDC)	ND	4.1	"
Benzene	ND	3.2	"
Carbon tetrachloride	ND	6.4	"
Trichloroethene	ND	5.5	"
1,2-Dichloropropane	ND	9.4	"
Bromodichloromethane	ND	6.8	"
cis-1,3-Dichloropropene	ND	4.6	"
4-Methyl-2-pentanone (MIBK)	ND	8.3	"
trans-1,3-Dichloropropene	ND	4.6	"
Toluene	ND	3.8	"
1,1,2-Trichloroethane	ND	5.5	"
2-Hexanone (MBK)	ND	8.3	"
Dibromochloromethane	ND	8.6	"
Tetrachloroethene	ND	6.9	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,1,1,2-Tetrachloroethane	ND	7.0	"
Chlorobenzene	ND	4.7	"

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Reported:
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Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB12316 - TO-15

Blank (EB12316-BLK1)

Prepared & Analyzed: 23-Feb-21

Ethylbenzene	ND	4.4	ug/m3
m,p-Xylene	ND	8.8	"
Styrene	ND	4.3	"
o-Xylene	ND	4.4	"
Bromoform	ND	10	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
4-Ethyltoluene	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	12	"
1,4-Dichlorobenzene	ND	12	"
1,2-Dichlorobenzene	ND	12	"
1,2,4-Trichlorobenzene	ND	38	"
Hexachlorobutadiene	ND	54	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>43.0</i>		<i>"</i>	<i>42.7</i>	<i>101</i>	<i>76-134</i>
<i>Surrogate: Toluene-d8</i>	<i>42.8</i>		<i>"</i>	<i>41.6</i>	<i>103</i>	<i>78-125</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>61.8</i>		<i>"</i>	<i>72.6</i>	<i>85.2</i>	<i>77-127</i>

LCS (EB12316-BS1)

Prepared & Analyzed: 23-Feb-21

Dichlorodifluoromethane (F12)	100	5.0	ug/m3	101	100	59-128
Vinyl chloride	59	2.6	"	52.0	114	64-127
Chloroethane	58	8.0	"	53.6	109	63-127
Trichlorofluoromethane (F11)	110	5.6	"	113	96.6	62-126
1,1-Dichloroethene	73	4.0	"	80.8	90.4	61-133
1,1,2-Trichlorotrifluoroethane (F113)	140	7.7	"	155	91.6	66-126
Methylene chloride (Dichloromethane)	58	3.5	"	70.8	81.5	62-115
trans-1,2-Dichloroethene	68	8.0	"	80.8	84.0	67-124
1,1-Dichloroethane	69	4.1	"	82.4	83.8	68-126
cis-1,2-Dichloroethene	70	4.0	"	80.0	87.6	70-121
Chloroform	92	4.9	"	99.2	92.4	68-123
1,1,1-Trichloroethane	110	5.5	"	111	98.1	68-125
1,2-Dichloroethane (EDC)	78	4.1	"	82.4	94.7	65-128
Benzene	57	3.2	"	64.8	87.5	69-119

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Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB12316 - TO-15

LCS (EB12316-BS1)

Prepared & Analyzed: 23-Feb-21

Carbon tetrachloride	130	6.4	ug/m3	128		98.5	68-132			
Trichloroethene	110	5.5	"	110		97.7	71-123			
Toluene	70	3.8	"	76.8		90.8	66-119			
1,1,2-Trichloroethane	100	5.5	"	111		90.8	73-119			
Tetrachloroethene	130	6.9	"	138		93.8	66-124			
1,1,1,2-Tetrachloroethane	140	7.0	"	140		97.0	67-129			
Ethylbenzene	81	4.4	"	88.4		92.1	70-124			
m,p-Xylene	76	8.8	"	88.4		85.6	61-134			
o-Xylene	82	4.4	"	88.4		92.6	67-125			
1,1,2,2-Tetrachloroethane	110	7.0	"	140		79.7	65-127			

Surrogate: 1,2-Dichloroethane-d4	46.4		"	42.7		109	76-134			
Surrogate: Toluene-d8	41.5		"	41.6		99.8	78-125			
Surrogate: 4-Bromofluorobenzene	69.2		"	72.6		95.4	77-127			

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, CA 91361

Project: ST021221-12
Project Number: 185804979 / Skypark Dr
Project Manager: Lewis Simons

Reported:
24-Feb-21 12:00

Notes and Definitions

LCC Leak Check Compound
ND Analyte NOT DETECTED at or above the reporting limit
MDL Method Detection Limit
%REC Percent Recovery
RPD Relative Percent Difference

All soil results are reported in wet weight.

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP Program and ISO/IEC 17025:2005 programs through PJLA, accreditation number 69070 for EPA Method TO-15, EPA Method 8260B and H&P 8260SV.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743 & 2745.

H&P is approved by the State of Louisiana Department of Environmental Quality under the National Environmental Laboratory Accreditation Conference (NELAC) certification number 04138

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpimg.com/about/certifications.

Lab Client and Project Information			
Lab Client/Consultant: <u>Stantec</u>		Project Name / #: <u>185804979</u>	
Lab Client Project Manager: <u>Lewis Sinons</u>		Project Location: <u>2530/2540 skip park Dr</u>	
Lab Client Address: <u>290 Conejo Ridge Ave</u>		Report E-Mail(s): <u>Lewis.sinons@stantec.com</u> <u>ben.cheulen@stantec.com</u>	
Lab Client City, State, Zip: <u>Thousand Oaks, CA 91361</u>			
Phone Number: <u>(562) 799-9866</u>			
Reporting Requirements		Turnaround Time	
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____ <input type="checkbox"/> CA Geotracker Global ID: _____		<input checked="" type="checkbox"/> Standard (7 days for preliminary report, 10 days for final report) <input type="checkbox"/> Rush (specify): _____	
Sampler Information		Sampler(s): <u>J. Arellano</u>	
		Signature: <u>[Signature]</u>	
		Date: <u>02-10-21</u>	

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>2/12</u>	Control #: <u>210085.07</u>
H&P Project # <u>ST021221-12 12 2121</u>	
Lab Work Order # <u>EA 6102047</u>	
Sample Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: <u>60206</u>	Temp: <u>RT</u>
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: <u>UB</u>	

Additional Instructions to Laboratory:

* Preferred VOC units (please choose one): verify with ben cheulen per client

☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa, Tedlar, Tube, etc.	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List		VOCs Short List / Project List		Oxygenates	Naphthalene	TPHv as Gas	Aromatic/Aliphatic Fractions	Leak Check Compound	Methane by EPA 8015m	Fixed Gases by ASTM D1945				
								<input type="checkbox"/> 8260SV	<input checked="" type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SVm	<input type="checkbox"/> TO-15m	<input type="checkbox"/> 8260SVm	<input type="checkbox"/> TO-15m	<input type="checkbox"/> CO2	<input type="checkbox"/> O2	<input type="checkbox"/> N2		
VP-7		02-10-21	1115	SV	450 mL	624	0.25	/								/						
VP-6			1127			602	0.30	/								/						
VP-4			1141			608	0.33	/								/						
VP-2			1155			629	0.41	/								/						
VP-1			1207			630	0.35	/								/						
VP-1 Dup			1207			603	0.38	/								/						
VP-3			1222			633	0.36	/								/						
VP-5			1243			631	0.39	/								/						
VP-8			1304			635	0.26	/								/						

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>STANTEC</u>	Date: <u>2/10/21</u>	Time: <u>1415</u>	Received by: <u>J. Arellano</u>	Company: <u>H&P</u>	Date: <u>02-10-21</u>	Time: <u>1415</u>
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

Log Sheet: Soil Vapor Sampling with Helium Shroud

H&P Project #: STO21021-TECH/H&P

Date: 02-10-21

Site Address: 2570/2540 skypark Dr (Robinson building)

Page: 1 of 1

Consultant: Stantec

H&P Rep(s): J. Arellano

Reviewed: EC

Consultant Rep(s): Bon

Scanned: Thoms

Equipment Info	
Inline Gauge ID#:	<u>TOF</u>
Pump ID#:	
He Meter ID#:	<u>017</u>
Shroud ID#:	<u>047</u>

Purge Volume	
PV Amount:	<u>300 mL</u>
PV Includes:	<input checked="" type="checkbox"/> Tubing <input type="checkbox"/> Sand 40% <input type="checkbox"/> Dry Bent 50%

MGD 2002 Helium Detector Calibration		
	Time	Helium (%)
Calibration Standard	n/a	2.5
Opening Calibration	<u>1050</u>	<u>2.7</u>
Closing Calibration	<u>1330</u>	<u>2.4</u>
Acceptable Range	n/a	2.1 - 2.9

Shroud Procedure:

H&P SOP

Sample and Summa Information							Probe Specs							Purge & Collection Information						Shroud Info			Probe Pressure
Point ID	Summa ID #	Sample Kit ID #	Start Time	Initial Vac ("Hg)	End / Sample Time	End Vac ("Hg)	Probe Depth (ft)	Tube Length (ft)	Tube OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min: sec)	Sample Flow Rate (mL/min)	ProbeVac <input type="checkbox"/> Hg <input checked="" type="checkbox"/> H ₂ O	He % Before	He % After	Probe ppmv	
1	VP-7	624 259	1111	-27	1119	0	VP	2'						✓	300	200	-	200	0	57.3	55.2	0	0
2	VP-6	602 342	1123	-28	1127	0	VP	2'						✓	300	200	-	200	0	58.7	52.9	0	0
3	VP-4	608 188	1137	-25.5	1141	0	VP	2						✓	300	200	-	200	0	61.8	57.0	0	0
4	VP-2	629 334	1151	-27	1155	0	VP	2						✓	300	200	-	200	0	57.4	54.2	1350	0
5	VP-1	630 341	1204	-28	1207	0	VP	2						✓	300	200	-	200	0	56.5	51.7	50	0
6	VP-1 Dup	603 282	1204	-27.5	1207	0	VP	2						✓	300	200	-	200	0	56.5	51.7	50	0
7	VP-3	633 096	1218	-29	1222	0	VP	2						✓	300	200	-	200	0	66.2	59.8	0	0
8	VP-5	631 131	1239	-28	1243	0	VP	2						✓	300	200	-	200	0	64.7	61.2	0	0
9	VP-8	635 345	1301	-27	1304	0	VP	2						✓	300	200	-	200	0	61.3	57.4	750	0
10																							

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):

*VP = Vapor Pin

*Client requested probe pressure reading before purge

*Attached 2' of nyla flow with 1-way valve termination to Vapor pin