

**SCREENING LEVEL VAPOR INTRUSION
HUMAN HEALTH RISK ASSESSMENT
REPORT**

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



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Executive Summary

This report was prepared on behalf of Robinson Helicopter Company (Robinson) by Stantec Consulting Services Inc. (Stantec) to estimate potential vapor intrusion (VI) risks based on a recent VI study (Stantec 2020) at a property addressed as 2530 and 2540 Skypark Drive (the Subject Property; 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 Subject Property, is one of the EA Properties.

Stantec evaluated potential vapor intrusion risks at this Property using nine indoor air samples including one duplicate sample and nine collocated sub-slab soil vapor samples including one duplicate sample collected across the entire building footprint in February 2021. (**Figure 2**). Analytical results were used to evaluate a reasonable maximum exposure (RME) scenario under the current and reasonably likely future commercial/industrial use scenarios following recent guidance from the California Environmental Protection Agency (Cal-EPA) [2020] using:

1. Indoor air sample results to estimate *current* vapor intrusion risk resulting from inhalation of COPCs in indoor air
2. sub-slab soil vapor results to estimate potential *future* vapor intrusion risk should building conditions change (e.g., the building slab integrity is compromised).

Current Inhalation Risks

The following table presents a summary of building-wide estimated *current* cancer risks and non-cancer hazards using a composite of maximum concentrations for each COPC attributable to possible vapor intrusion (e.g., chemicals detected in indoor air and sub-slab soil vapor) including PCE, and TCE for commercial/industrial receptors based on indoor air sampling and analysis. Note, TCE was not detected in indoor air or outdoor and one-half the laboratory reporting limit was used to estimate risks (see **Table 5**) because it is a degradation product of PCE, was detected in sub-slab soil vapor and because of its toxicity.

Receptor	Cancer Risk	Non-Cancer Hazard
Current Commercial/Industrial Receptor	8E-07	3.96E-02

The largest contributor to current cancer risk is PCE which was not detected above screening levels in any of the samples. It is noted that 14 volatile organic compound (VOC) analytes were reported in at least one indoor air sample. Of these, only PCE is most likely attributable to potential vapor intrusion. While not detected in indoor air samples, TCE is a known degradation product of PCE and was included based on its toxicity. Data for the remaining 14 VOCs indicate that these are from outdoor air or indoor sources and are unrelated to vapor intrusion.

Future Vapor Intrusion Risks

Four VOCs were reported above laboratory reporting limits: PCE, TCE, toluene and 1,1,2-trichlorotrifluoroethane (1,1,2-TCTFA). Of these only PCE was reported above screening levels using an attenuation factor of 0.03. In the case of toluene and 1,1,2-TCTFA the reported concentrations are three orders of magnitude below the screening level. The assessment of health risks to the future worker included PCE and TCE. In the case of TCE, which was reported below the laboratory reporting limit, one half the reporting limit was used to estimate risk. The following table presents a summary of the range of estimated cancer risks and non-cancer hazards for commercial/industrial receptors based on use of 0.03 attenuation factor (see Section 3.17 Uncertainty Assessment):

Depth and Receptor	Cancer Risk		Non-Cancer Hazard	
	Low	High	Low	High
Sub-Slab Soil Vapor Commercial/Industrial Receptor	1E-05	6E-04	1.3E-01	7.6E+00

The largest contributor to cancer risk is PCE detected above screening levels, based on an attenuation factor of 0.03.

DISCUSSION

Use of a composite sample containing the maximum concentrations of chemicals attributable to potential vapor intrusion (detected in both indoor air and sub-slab soil vapor with no evidence of other sources), PCE and TCE, yielded an estimated maximum potential cancer risk for the *current* worker of 8E-07 which is below the point of departure of 1E-06.

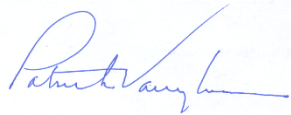
A range of potential *future* vapor intrusion risks was estimated by comparing all results against human health risk-based soil vapor screening levels derived by dividing indoor air screening levels representing no unacceptable cancer risk or non-cancer hazards of less than 1 established either by DTSC or the U.S. Environmental Protection Agency for commercial use properties, by an overly conservative attenuation factor of 0.03.

Use of the 0.03 attenuation factor to simulate estimated potential *future* cancer risks to commercial/industrial workers indicates that cancer risks for PCE range from **1E-05 to 7E-04** and were above the target non-cancer hazard of 1 in five of nine locations. For TCE, estimated potential *future* site-wide risks to a commercial/industrial receptor ranged from **6E-08** to 8E-07. In no case did the concentrations of PCE and TCE reported in sub-slab soil vapor result in levels in indoor air predicted by the 0.03 attenuation factor thus showing that the attenuation factor of 0.03 is excessively conservative at this Site.

It is Stantec's opinion that vapor intrusion is a potentially complete exposure pathway for COPCs detected in both indoor air and sub-slab soil vapor but if occurring is occurring at levels representing no unacceptable potential human health risk.

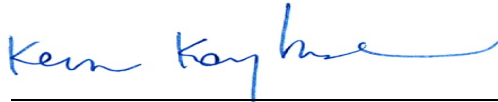
The estimated risks presented here are based on numerous conservative assumptions to be protective of human health and to ensure that the risks presented are more likely to be overestimated rather than underestimated. Please see Section 3.12 for a discussion of the uncertainties associated with these findings.

This SCREENING LEVEL VAPOR INTRUSION HUMAN HEALTH RISK ASSESSMENT REPORT was prepared by Stantec Consulting Services Inc. (Stantec) for Magellan Aerospace. The material in it reflects Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.



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Abbreviations

%R	Percent recovery
AA	Ambient air
bgs	Below ground surface
Cal-EPA	California Environmental Protection Agency
COC	Chain-of-custody
COPCs	Chemicals of potential concern
CR	Cancer risk
Dasco	Dasco Engineering Corporation
DCE	Dichloroethene
DTSC	California Department of Toxic Substances Control
EA Properties	East-Adjacent Properties of Hi-Shear Corporation
EPC	Exposure Point Concentration
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
IRIS	Integrated Risk Information System
IUR	Inhalation Unit Risk
LARWQCB	Los Angeles Regional Water Quality Control Board
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate
LRL	Laboratory Reporting Limit
Middletown	Magellan Aerospace, Middletown, Inc.
mL	Milliliter
msl	Mean seal level
µg/m ³	Micrograms per cubic meter
PCE	Tetrachloroethene
RfC	Reference Concentration
RME	Reasonable Maximum Exposure
RSLs	USEPA Region 9 Regional Screening Levels
Robinson	Robinson Helicopter Company
SCP	Site Cleanup Program
Stantec	Stantec Consulting Services, Inc.

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SLs	Cal-EPA, DTSC, HERO, HHRA Note Number 3, Screening Levels (June 2020)
TCA	Trichloroethane
TCE	Trichloroethylene
TCDB	Toxicity Criteria Database
USEPA	United States Environmental Protection Agency
VOCs	Volatile organic compounds
VI	Vapor intrusion
VP	Sub-slab vapor probe
µg/L	Micrograms per liter
µg/m ³	Micrograms per cubic meter

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1.0 INTRODUCTION

Stantec Consulting Services Inc (Stantec) has prepared this Human Health Risk Assessment (HHRA) for Property 3 located at 2530 and 2540 Skypark Drive Torrance, California 90505, in response to the Los Angeles Water Board issued Cleanup and Abatement Order No. R4-2021-0079 (Order).

1.1 OVERVIEW OF APPROACH

The risk assessment (RA) approach used to conduct this human health risk assessment (HHRA) is consistent with guidance within the state of California (DTSC 2014) with consideration of recent draft guidance (DTSC 2020) and is conservative in order to minimize the possibility of underestimating potential human health risks. To ensure a health protective (i.e., conservative) approach, a reasonable maximum exposure (RME) scenario was evaluated for the identified receptors. Risks and hazards were estimated using a deterministic approach developed based on site information that identifies potential receptors and potentially complete exposure pathways for risk characterization.

1.2 ORGANIZATION OF REPORT

The remainder of the HHRA Report is organized as follows:

- ☐ Section 2.0 Background
- ☐ Section 3.0 Human Health Risk Assessment
- ☐ Section 4.0 References

2.0 BACKGROUND

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 in a predominantly commercial and light industrial area. 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.

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

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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.*
- *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.*

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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 PAST ASSESSMENTS

- 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):
- 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

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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.

In 2020, based on previous work performed by others, Stantec conducted a vapor intrusion assessment to evaluate the primary constituents of potential concern (COPCs), PCE, TCE, cis-1,2 dichloroethene (DCE), trans-1,2 DCE, 1,1-DCE, and vinyl chloride, as defined and determined by GER's *Soil, Soil Vapor, and Groundwater Evaluation Delineation Module III – Interim Report* (GER, 2020).

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 VI Study scope of work proposed:

- Conducting a non-intrusive visual building survey
- Collecting three outdoor ambient air samples
- Collecting nine indoor air samples
- Installing and sampling nine sub-slab vapor probes

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- 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 a report summarizing the VI Study procedures and findings.

The following modifications were made 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 proposed scope of work.

Stantec compared the ambient (outdoor) 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.
- Sub-slab vapor COPC results were compared to the RSLs, and SLs referenced above established utilizing a conservative attenuation factor of 0.03 (see Section 3.12 of this report-Uncertainty Assessment). In instances in which a COPC has both an RSL and an SL, the COPC concentrations were compared to the more protective RSL or SL.

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Four VOCs were reported above laboratory reporting limits in sub-slab samples: PCE, TCE, toluene and 1,1,2-trichlorotrifluoroethane (1,1,2-TCTFA). Of these, only tetrachloroethene [PCE], was reported above sub-slab screening levels using a conservative attenuation factor of 0.03. In the case of toluene and 1,1,2-TCTFA the reported concentrations are three orders of magnitude below their screening levels. Fourteen (14) VOCs were reported in at least one indoor air sample. Of these, only benzene, chloroform, and ethylbenzene were reported above the commercial industrial screening level (PCE was not detected above its screening level). Based on the data collected by Stantec, the following conclusions were made with respect to the analytes detected in indoor air and/or sub-slab vapor samples at concentrations above 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 COPC for vapor intrusion is PCE. However, PCE was not reported above the chronic SL in indoor air.

3.0 CONCEPTUAL SITE MODEL

A key step in the HHRA process is the development of a CSM that identifies the likely contaminant source areas, exposure pathways, and potential receptors. The CSM for human health presents potentially complete and incomplete current and future exposure pathways for the Site. The CSM is a dynamic model that is used to include or exclude sources of COPCs, receptors, or exposure pathways based on site history and current information.

3.1 SURROUNDING PROPERTY USE

The Property is in an area of mixed commercial and industrial use with Skypark Drive to the north and Property 3 to the east. Properties to the south and west are developed as surface parking lots.

3.2 POTENTIAL SOURCES

Potential sources of subsurface impacts have been identified at the Hi-Shear Corporation facility located at 2600 Skypark Drive in Torrance, California and the LARWQCB has required evaluation of possible additional sources at East Adjacent Properties (EA Properties) which includes Property 3. 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

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beneath Property 3 are restricted 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 Subject Property building.

3.3 POTENTIALLY EXPOSED POPULATIONS

The Subject Property is in use as a manufacturing facility and there are no known plans for a change in use given the industrialized uses in the vicinity. As such, commercial workers are the potentially exposed population under the current and reasonably likely future uses.

3.4 POTENTIAL EXPOSURE PATHWAYS

An exposure pathway is the route that a chemical takes from the source to an exposed individual. An exposure pathway generally consists of the following four elements (EPA, 1989):

- A source and mechanism of chemical release to the environment
- An environmental transport medium (e.g., soil, water, or soil vapor)
- An exposure point, or point of potential human contact, with the contaminated medium
- An exposure route (e.g., ingestion) at the point of human contact

If any of the above elements are missing, the pathway is considered incomplete and exposure does not occur.

Exposures via the inhalation pathway consist of COPCs in air eventually reaching a receptor who inhales airborne vapor and gases. The following inhalation pathways relevant to soil vapor sources were reviewed for inclusion in the risk assessment and consist of:

- Transport and inhalation of chemicals in soil vapor that migrate to indoor air.

The inhalation of chemicals migrating to outdoor air from the subsurface, though a potentially complete pathway, was deemed to be insignificant as a potential exposure pathway.

3.5 POTENTIALLY EXPOSED POPULATIONS

Based on the current and reasonably likely future use of the building, this risk assessment has evaluated the potential health effects to only one RME receptor: the on-site commercial worker. The commercial worker is assumed to be at the Site for 8 hours a day, 5 days a week, 250 days/year, for 25 years.

3.6 EXPOSURE ASSESSMENT

Exposure is defined in the USEPA risk assessment guidelines as the contact of a receptor with a chemical or physical agent (USEPA, 1989 and 1992). The goal of the exposure assessment is to identify and quantify known and hypothetical exposure pathways relevant to an assessment of human health risk

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at a Site, and to determine the quantities or exposure doses or exposure concentrations of COPCs received by the potentially exposed populations.

3.6.1 RISK ASSESSMENT DATASETS

Nine indoor air samples including one duplicate sample and nine collocated sub-slab soil vapor samples including one duplicate sample were collected across the building footprint in February 2021. Indoor and sub-slab soil vapor datasets are provided in **Tables 1 and 2**.

3.6.2 SELECTION OF CHEMICALS OF POTENTIAL CONCERN (COPCS)

Although the DTSC-approved work plans specified analytical methods capable of detecting potential COPCs below their respective screening levels, sample preparation or analytical adjustments, such as dilution of a sample to allow for quantitation of an extremely high level of one compound, could result in elevated detection limits for other compounds. Therefore, before eliminating chemicals because they are not detected, the VIHHA compared the laboratory reporting limit for a chemical to its corresponding screening level. If the reporting limit is higher than the corresponding screening level, the chemical may be present at levels greater than the corresponding reference concentrations, which may result in undetected risk. For chemicals reported as not detected above the laboratory reporting limit (LRL) where the LRL was below the screening level, one-half the LRL was used for evaluation.

Only PCE was detected at concentrations above screening levels in sub-slab soil vapor samples; however, PCE was reported below screening levels in indoor air. PCE is the primary COPC and was selected as a chemical of potential concern (COPCs) for potential vapor intrusion and carried forward for quantitative evaluation (see **Table 3**). Even though it was not detected in indoor air or in sub-slab vapor samples above screening levels, TCE was also selected as a COPC because it is a degradation product of PCE and because of its toxicity. Toluene although detected in both sub-slab soil vapor and indoor air, was excluded as a COPC since concentrations in indoor air are primarily attributable to either outdoor air or indoor sources. All other VOCs were below screening levels for indoor air and sub-slab, or, in the case of benzene, reported at concentrations consistent with background ambient air.

3.6.3 EXPOSURE POINT CONCENTRATIONS

The Exposure Point Concentration (EPC) is the concentration of a COPC that could be contacted by a receptor during the assumed duration of exposure. EPCs for soil vapor represent either the chemical concentration or for chemicals reported as not-detect, the laboratory reporting limit, on a sample point-by-point.

3.6.4 DATA USABILITY ASSESSMENT

All laboratory data underwent a Stage 2 data verification and validation process. The major findings are as follows:

- H&P Mobile Geochemistry Report-ST021221-12. Nine sub-slab soil vapor samples including one duplicate sample were analyzed by US EPA Method TO-15 as part of the data package. There

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were no identified modifications to the method; no analytes were detected in the laboratory method blanks; and all surrogate recoveries were within method acceptance limits.

- H&P Mobile Geochemistry Report-ST020821-12. Nine indoor and 3 outdoor air samples were analyzed as part of the data package. No data qualifiers were assigned by the laboratory. No exceptions to the method were noted; no analytes were detected in the laboratory method blanks; all surrogate recoveries were within method acceptance limits; and %Rec for all analytes was within acceptance limits in the LCS sample.

Based on this information all laboratory data are considered usable for their intended use.

3.7 SELECTION OF TOXICITY VALUES

Potential toxic effects of chemicals are generally classified as carcinogenic (i.e., cancer causing), or non-carcinogenic (i.e., non-cancer health effects). These endpoints are separately quantified in HHRAs as cancer risks and non-cancer health effects, respectively. Toxicity values numerically express the magnitude of potential toxic effects of chemicals. Reference doses (RfDs) and reference concentrations (RfCs) are used to quantify non-cancer health effects, and cancer slope factors (SFs) and inhalation unit risks (IURs) are used to quantify cancer risks. Both cancer and non-cancer endpoints may be evaluated for carcinogenic chemicals depending on the chemicals' toxic effects and availability of RfDs/RfCs.

In accordance with the September 4, 2018, *Toxicity Criteria for Human Health Risk Assessments, Screening Levels, and Remediation Goals* rule, (California Code of Regulations, title 22, Chapter 50 Section 68400.5 and Chapter 51 Sections 69020, 69021, and 69022 [the Rule]), individual chemical screening levels in this SLHHRA were based on:

- Table 1 Toxicity Criteria required by the Rule.
- USEPA Integrated Risk Information System (IRIS).
- Table 2 DTSC-recommended toxicity criteria for analytes with more than one non-IRIS toxicity value.
- For COPCs, listed in more than source, the more protective toxicity values from the most current version of the USEPA RSL tables (U.S. EPA May 2021) or the Toxicity Criteria Database (TCDB; CalEPA, last searched in September 2021) were used.

3.8 HUMAN HEALTH RISK-BASED SCREENING LEVELS

3.8.1 Vapor Intrusion Screening Levels

This HHRA used screening levels calculated using standardized equations that combine conservative exposure assumptions with U.S. EPA or Cal/EPA toxicity data. USEPA Regional Screening Levels (RSLs) are concentrations that the USEPA considers to be protective of human health (including sensitive groups) over a lifetime. These values are intended to be protective; however, they are calculated without site-specific information and are not always applicable for every site.

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The USEPA maintains a list of RSLs which are updated semi-annually (i.e., spring and fall). RSLs are risk-based concentrations derived from standardized equations developed for USEPA's Superfund program.

Cal/EPA Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) maintains a list of screening levels established for ambient (indoor) air that are presented in Human Health Risk Assessment Notes (HHRA Note 3). The most recent version, released in June 2020, makes recommendations on the use of U.S. EPA RSLs for tap water, soil and air (both for residential and industrial/commercial use) and provides alternate values to be used in lieu of RSLs for some compounds (Cal/EPA 2019). HERO Note 3 includes tables for compounds with air screening levels specific to California. For chemicals not listed, the EPA RSLs were used.

Screening levels for soil vapor are not provided by DTSC in HERO Note 3 but were calculated by dividing the indoor air screening level by the DTSC default sub-slab and "near source" soil vapor to indoor air attenuation factor of 0.03

Soil vapor screening levels are provided by the California Regional Water Quality Control Board-San Francisco Bay Region (RWQCB-SFBR) however, except for use of TPH soil vapor Environmental Screening Levels (ESLs) DTSC recommends against use of the ESLs.

3.9 RISK CHARACTERIZATION

For this HHRA, since current information indicates worker occupancy and exposure conditions are aligned with exposure assumptions used to develop DTSC (DTSC 2019) and USEPA screening levels for current and reasonably likely future commercial/industrial receptors, potential vapor intrusion risks were estimated using a comparison of the concentration of each chemical to the most protective carcinogenic or non-carcinogenic screening levels (SLs) as discussed in Section 3.7 and 3.8. All screening levels are based on a target Cancer Risk (CR) of 1E-06 and a hazard index (HI) = 1.

Theoretical cancer risks and non-cancer hazard quotients (HQs) for each chemical were estimated as follows:

For carcinogenic chemicals:

$$Cancer\ Risk = \frac{EPC}{SL} \times 0.000001$$

For non-carcinogenic chemicals or carcinogens with non-cancer screening levels:

$$Hazard\ Quotient = \frac{EPC}{SL}$$

Ratios of the concentration of a particular chemical in soil vapor to its human health risk-based concentration were calculated and then summed regardless of toxic endpoint across all chemicals to estimate a total CR and non-cancer HI.

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Stantec collected nine paired indoor air/sub-slab samples across the building footprint in addition to three ambient (outdoor air samples). Consistent with the *Draft Supplemental Guidance: Screening and Evaluating Vapor Intrusion* (DTSC 2020), the results of the indoor air sampling were used to estimate *current* potential inhalation risks but only for those chemicals detected in both sub-slab soil vapor and indoor air. The results of the sub-slab soil vapor sampling and analysis were used to estimate potential *future* vapor intrusion risks based on use of an extremely conservative generic soil vapor to indoor air attenuation factor of 0.03. The uncertainties associated with that approach are discussed in Section 3.12.

3.10 RISK CHARACTERIZATION SUMMARY

This section presents the results of the risk characterization which integrates the results of the toxicity and exposure assessments to estimate potential cancer risk (CR) and non-cancer hazard index (HI) associated with exposure to COPCs at the Site.

Various demarcations of acceptable risk have been established by regulatory agencies. USEPA considers that under most situations, cancer risks in the range of one-in-one million (1×10^{-6} or $1\text{E-}06$) to one-in-ten thousand (1×10^{-4} or $1\text{E-}04$) may be considered acceptable with cancer risks less than $1\text{E-}06$ considered *de minimis*. For vapor intrusion, Cal-EPA guidance (Cal-EPA, 2011) indicates that cumulative risk between $1\text{E-}06$ and $1\text{E-}04$ fall within a risk management range where further evaluation, remediation or mitigation may be considered. A CR greater than $1\text{E-}04$ indicates that mitigation and/or remediation is needed. Agencies within California may also consider, on a site-specific basis, a CR of $1\text{E-}05$ (one-in-one hundred thousand) as representing an acceptable risk threshold for commercial/industrial receptors.

Current Inhalation Risks

The following table presents a summary of estimated *current* building-wide cancer risks and non-cancer hazards for commercial/industrial receptors based on indoor air sampling and analysis of PCE, and TCE as the sole COPCs. Note, TCE was not detected in indoor air or outdoor and one-half the laboratory reporting limit was used to estimate risks (see **Table 5**).

Receptor	Cancer Risk		Non-Cancer Hazard	
	Low	High	Low	High
Current Commercial/Industrial Receptor	9E-08	8E-07	7.26E-05	3.96E-02

The largest contributor to current cancer risk is PCE which was not detected in any of the samples above current indoor air screening levels.

Future Vapor Intrusion Risks

Four VOCs were reported above laboratory reporting limits: PCE, TCE, toluene and 1,1,2-trichlorotrifluoroethane (1,1,2-TCTFA). Of these only PCE was reported above screening levels using an attenuation factor of 0.03. In the case of toluene and 1,1,2-TCTFA the reported concentrations are three orders of magnitude below the screening level. The assessment of health risks to the future worker included PCE and TCE. In the case of TCE, which was reported below the laboratory reporting limit, one half the reporting limit was used to estimate risk. The following table presents a summary of the range of

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estimated cancer risks and non-cancer hazards for commercial/industrial receptors based on use of 0.03 attenuation factor (see Section 3.17 Uncertainty Assessment):

Depth and Receptor	Cancer Risk		Non-Cancer Hazard	
	Low	High	Low	High
Sub-Slab Soil Vapor Commercial/Industrial Receptor	1E-05	6E-04	1.3E-01	7.6E+00

The largest contributor to cancer risk is PCE detected above screening levels, based on an attenuation factor of 0.03.

3.11 DISCUSSION

Nine sub-slab soil vapor samples including one duplicate sample and nine collocated indoor air samples including one duplicate were collected at 9 locations across the entire building footprint in February 2021. Analytical results were used to evaluate a reasonable maximum exposure (RME) scenario under the current commercial/industrial use in two ways: 1) indoor air sample results were used to estimate *current* vapor intrusion risk, and 2) sub-slab soil vapor results were used to estimate potential *future* vapor intrusion risk should building conditions change (e.g., the building slab integrity is compromised).

Based on the ratio of indoor air to sub-slab concentrations suggests that PCE is the only COPC that can be reasonably attributed to vapor intrusion. All other analytes appear to be from sources other than vapor intrusion. Use of a composite sample containing the maximum concentrations of chemicals detected in both indoor air and sub-slab soil vapor yielded an estimated potential cancer risk of **8E-07** which is below the point of departure of 1E-06 and below an acceptable risk of 1E-05 used on a site-specific basis for industrial use properties. Similarly, noncancer hazards were estimated to be 3.96E-02 which is below the target HI of one. These results indicate no unacceptable risk to the current and reasonably foreseeable workers.

A range of potential *future* vapor intrusion risks was estimated by comparing all results against human health risk-based soil vapor screening levels derived by dividing indoor air screening levels representing no unacceptable cancer risk or non-cancer hazards of less than 1 established either by DTSC or the U.S. Environmental Protection Agency for commercial use properties, by an extremely conservative attenuation factor of 0.03.

Use of the 0.03 attenuation factor to simulate *future* potential cancer risks indicates that commercial/industrial use cancer risks for COPCs range from **1E-05** to **6E-04** and above the target non-cancer hazard target of 1 in 6 locations (1.3 E-01 to 7.6E+00). In no case did the concentrations of COPCs in sub-slab soil vapor result in levels in indoor air predicted by the 0.03 attenuation factor. The use of an attenuation factor of 0.03 has been demonstrated to be a very conservative estimate of indoor air concentrations in typical slab-on-grade commercial and industrial buildings in California.

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It is Stantec's opinion that vapor intrusion is a potentially complete exposure pathway for COPCs detected in both indoor air and sub-slab soil vapor but if occurring, is occurring at levels representing no unacceptable potential human health risk.

3.12 UNCERTAINTY ASSESSMENT

In general, uncertainties in the HHRA process are essentially the accumulated uncertainties associated with the methodologies used in estimating the health risk results (EPA 1989). They are the product of many factors affecting each component of the HHRA process. These factors generally include, at a minimum, measurement errors, conservative exposure and modeling assumptions, and uncertainty and variability of the values used in the assessment.

The term "uncertainty" is often used in risk assessment to describe what are two conceptually different terms: uncertainty and variability. Uncertainty can be described as the lack of a precise knowledge resulting in a fundamental data gap. Variability describes the natural heterogeneity of a population. Uncertainty can sometimes be reduced or eliminated through further measurements or study. By contrast, variability is inherent in what is being observed. Although variability can be better understood, it cannot be reduced through further measurement or study, although it may be more precisely defined. However, the additional cost of further data collection may become disproportional to the reduction in uncertainty.

The risks and hazards presented are consistent with EPA's stated goal of RME representing the high end of the possible risk distribution, which is generally considered to be greater than the 90th percentile and less than the 98th percentile. However, these estimates are based on numerous and often conservative assumptions and, in the absence of definitive information, assumptions are used to ensure that actual sites risks are not underestimated. The cumulative effect of these assumptions can result in an analysis with an overall conservativeness greater than the individual components. Accordingly, it is important to note that the risks presented here are based on numerous conservative assumptions in order to be protective of human health and to ensure that the risks presented here are more likely to be overestimated rather than underestimated.

Specific uncertainties associated with this HHRA include:

- ❑ According to the Cal-EPA 2020 draft vapor intrusion guidance, the attenuation factor of 0.03 should be applied for initial vapor intrusion screening regardless of depth of sample and assumes that attenuation does not occur from the source to the receptor. Moreover, this attenuation factor has not yet been confirmed to be appropriate for the generally Mediterranean climate in southern California.

The empirically derived attenuation factors which are the ratios of the indoor air concentrations arising from vapor intrusion (i.e., a chemical detected in both subsurface soil vapor and indoor air) to the subsurface concentrations at a point of depth of interest (USEPA 2012) range from 0.0015 to 0.00005 for PCE (**Table 4**) indicating that for this building, applying an attenuation factor of 0.03 is overly conservative and not predictive of potential current or future vapor intrusion risk.

According to USEPA the use of screening levels based on an attenuation factor of 0.03 used in assessments reflects the goal to use a health-protective value that ensures a low probability of a

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false-negative (USEPA 2021b). However, as evidenced by this VI HHRA of the Subject Property, application of sub-slab soil vapor screening levels did in fact result in an overestimate of potential vapor intrusion risk based on indoor air sampling and analysis.

- ❑ Indoor air results indicate that COPCs (notably PCE and TCE) are not encountered at all locations sampled within the building. The use of the maximum concentrations when evaluating *current* VI risk leads to an overestimate of potential risk.
- ❑ There is uncertainty regarding the estimates of *current* risk using indoor air data for chemicals detected both in indoor air and in sub-slab soil vapor since such estimates do not consider or allow adjustments made for the contribution of chemicals in outdoor air to those identified in indoor air.
- ❑ The exposure pathways at commercial properties assume standard exposure assumptions (USEPA, 2014, and DTSC 2019) but are not anticipated to underestimate calculated cancer risks and noncancer hazards.
- ❑ The assumption that individuals within a receptor population (or subpopulation) will receive the same intake doses. Variability in parameters such as absorption rate, inhalation rate, frequency and duration of exposure, body weight, and activity pattern will exist even in a narrowly defined age group or identified sensitive subpopulation (USEPA, 1992).
- ❑ It is assumed that contaminant concentrations will not decline over time due to source depletion.

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United States Geological Survey (USGS), 1981, Torrance, 7.5 Minute Topographic Map, Scale 1 inch = 2,400 feet.

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
Indoor	Max	4.10	1.40	0.57	1.40	1.10	1.10	0.50	0.92	1.50	0.00	14.00	1.50	0.00	1.50	4.10	1.80	
	Min	3.20	0.81	0.51	1.20	1.00	0.44	0.50	0.78	0.90	0.00	3.90	1.10	0.00	0.60	1.50	0.60	
Outdoor	Max	3.00	1.10	0.57	1.40	1.00	0.57	0.00	1.10	0.00	0.00	2.30	1.40	0.00	0.90	2.00	0.88	
	Min	1.30	0.74	0.51	1.20	1.00	0.53	0.00	0.78	0.00	0.00	1.70	1.30	0.00	0.80	1.10	0.48	

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
max		<600	<65	<130	<21	<100	<88	<100	<35	43,000	77	63	<110	810	<100	<180	<88		
min		<30	<16	<6.4	<4.1	<10	<4.4	<5.0	<3.5	670	75	14	<5.6	160	<5.0	<8.8	<4.4		

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.

TABLE 3
Summary Statistics and Selection of COPCs
East-Adjacent Properties - Property 3
2530 & 2540 Skypark Drive, Torrance, California 90505

CHEMICAL	Frequency of Detection			MAX (µg/m ³)			Lowest SL (µg/m ³)			AF	Max > Any SL?	COPC? ¹
	Indoor	Outdoor	Soil Vapor	Indoor	Outdoor	Soil Vapor	Indoor	Outdoor	Soil Vapor			
2-Butanone	9/9	3/3	0/9	4.1	3	<600	22,000	22,000	733,333	--	N	N
Benzene	9/9	3/3	0/9	1.4	1.1	<65	0.42	0.42	14	--	N ²	N
Carbon tetrachloride	9/9	3/3	0/9	0.57	0.57	<130	2	2	67	--	N	N
Chloromethane	9/9	3/3	0/9	1.4	1.4	<21	390	390	13,000	--	N	N
Dichlorodifluoromethane	2/9	1/3	0/9	1.1	1	<100	440	440	14,667	--	N	N
Ethylbenzene	8/9	1/3	0/9	1.1	0.57	<88	5	5	163	--	N	N
4-Ethyltoluene	0/9	0/3	0/9	0.5	0	<100	--	--	--	--	N	N
Methylene chloride	9/9	3/3	0/9	0.92	1.1	<35	12	12	400	--	N	N
PCE	9/9	0/3	9/9	1.5	0	43,000	2	2	67	0.0001	Y	Y
TCE	0/9	0/3	2/9	<0.55	<0.55	77	3	3	100	--	N	N ³
Toluene	9/9	3/3	7/9	14	2.3	63	1,300	1,300	43,333	0.6667	N	N
Trichlorofluoromethane	9/9	3/3	0/9	1.5	1.4	<110	5,300	5,300	176,667	--	N	N
1,1,2-Trichlorotrifluoroethane	0/9	0/3	9/9	<0.77	<0.77	810	22,000	22,000	733,333	--	N	N
1,2,4-Trimethylbenzene	9/9	2/3	0/9	1.5	0.9	<100	260	260	8,667	--	N	N
m,p-Xylene	9/9	3/3	0/9	4.1	2	<180	440	440	14,667	--	N	N
o-Xylene	9/9	3/3	0/9	1.8	0.88	<88	440	440	14,667	--	N	N

Notes:

¹. COPC Reason Codes: COPC-Y = chemical detected in sub-slab soil vapor AND/OR indoor air and AF not indicative of other sources.

COPC-N = chemical not detected in sub-slab soil vapor but detected at least once in indoor air

AF = attenuation factor based on maximum detected values-indoor air/sub/slab.

-- = AF not calculated. Either indoor air or sub-slab soil vapor values missing.

². = Benzene sub-slab soil vapor reporting limit elevated above its SL in 1/09 samples. All other LRLs below its SL.

³. = TCE not identified as a COPC but was evaluated because it is a degradation product of PCE and because of its toxicity.

TABLE4
Summary of Empirically-Derived Building Attenuation Factors
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
VP-1	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	5,700	75	19	<28	750	<25	<44	<22	ND
AF										0.0002		0.3842						
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
VP-1 DUP	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	6,000	77	<19	<28	810	<25	<44	<22	ND
AF										0.0002								
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
VP-2	2/10/2021	<300	<32	<64	<21	<50	<44	<50	<35	26,000	<55	63	<56	340	<50	<88	<44	ND
AF										0.00005		0.0619						
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
VP-3	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	13,000	<27	21	<28	360	<25	<44	<22	ND
AF										0.0001		0.6667						
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
VP-4	2/10/2021	<600	<65	<130	<41	<100	<88	<100	<71	43,000	<110	<76	<110	220	<100	<180	<88	ND
AF										0.00003								
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
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
AF										0.0004		0.3714						
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
VP-6	2/10/2021	<150	<16	<32	<10	<25	<22	<25	<18	8,500	<27	23	<28	240	<25	<44	<22	ND
AF										0.0001								
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
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
AF										0.0003								
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
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
AF			0.2708							0.0015		0.5429						
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 5.
Summary of Estimated *Current* Potential Vapor Intrusion Risks from COPCs in Indoor Air
East-Adjacent Properties - Property 3
2530 & 2540 Skypark Drive, Torrance, California 90505

Distribution of COPCs and Risks Across Building Footprint

Sample	PCE					TCE				
	Conc	Screening Level		CR	HQ	Conc	Screening Level		CR	HQ
		Cancer	Non-Cancer				Cancer	Non-Cancer		
IA-1	1.1	2	180	5.5E-07	6.11E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-1 REP	1.0	2	180	5.0E-07	5.56E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-2	1.2	2	180	6.0E-07	6.67E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-3	1.5	2	180	7.5E-07	8.33E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-4	1.4	2	180	7.0E-07	7.78E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-5	1.2	2	180	6.0E-07	6.67E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-6	1.0	2	180	5.0E-07	5.56E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-7	0.90	2	180	4.5E-07	5.00E-03	<0.55	3	8.8	9.2E-08	3.13E-02
IA-8	1.0	2	180	5.0E-07	5.56E-03	<0.55	3	8.8	9.2E-08	3.13E-02

Building-Wide Risks-Max Concentrations of COPCs in Indoor Air

COPC	Max Concentration	Screening Level Cancer	Screening Level Non-Cancer	CR	HQ
PCE	1.5	2	180	7.5E-07	8.33E-03
TCE	<0.55 ¹	3	8.8	9.2E-08	3.13E-02
CUMULATIVE				8.E-07	3.96E-02

Notes:

Risks calculated using 1/2 the laboratory reporting limit.

TABLE 7
ESTIMATED POTENTIAL FUTURE RISKS-SUB-SLAB SOIL VAPOR
PROPERTY 3
2530 AND 2540 SKYPARK DRIVE, TORRANCE, CA

TABLE 6.
Summary of Estimated *Future* Potential Vapor Intrusion Risks COPCs in Sub-Slab Soil Vapor
East-Adjacent Properties - Property 3
2530 & 2540 Skypark Drive, Torrance, California 90505

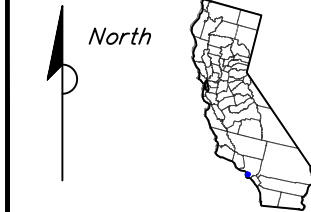
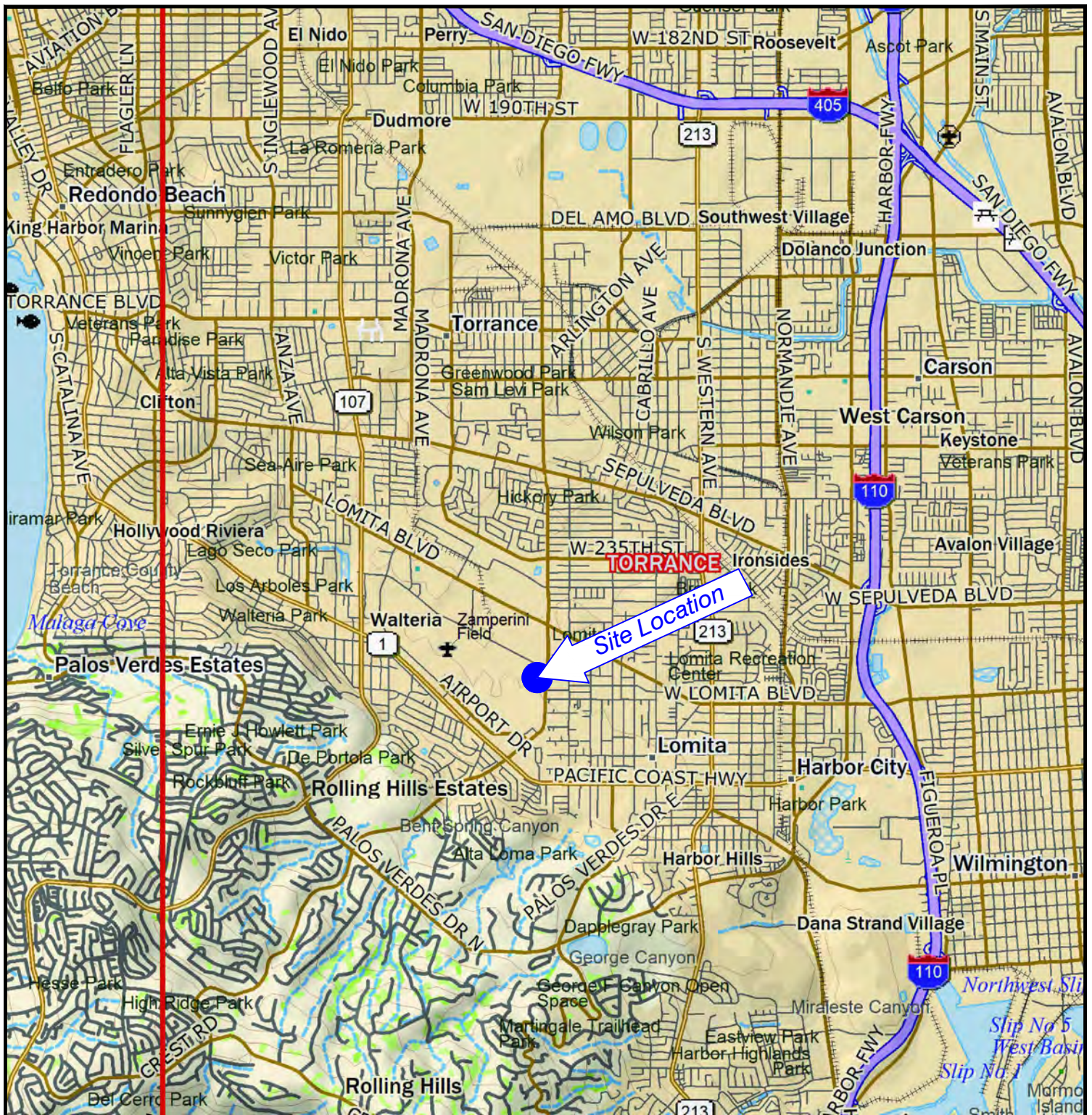
VP-1						VP-1 Dup				VP-2				VP-3			
Chemical	Screening Level (µg/m3)		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk				
	Cancer	Non-Cancer		CR	HQ		CR	HQ		CR	HQ		CR	HQ			
PCE	67	5,800	5,700	8.5E-05	9.83E-01	6,000	9.0E-05	1.03E+00	26,000	3.9E-04	4.48E+00	13,000	1.9E-04	2.24E+00			
TCE	100	290	75	7.5E-07	2.59E-01	77	7.7E-07	2.66E-01	<55	2.8E-07	9.48E-02	<27	1.4E-07	4.66E-02			
				9.E-05	1.2E+00		9.E-05	1.3E+00		4.E-04	4.6E+00		2.E-04	2.3E+00			

VP-4						VP-5				VP-6				VP-7			
Chemical	Screening Level (µg/m3)		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk		Concentration (ug/m3)	Potential Risk				
	Cancer	Non-Cancer		CR	HQ		CR	HQ		CR	HQ		CR	HQ			
PCE	67	5,800	43,000	6.4E-04	7.41E+00	3,200	4.8E-05	5.52E-01	8,500	1.3E-05	1.47E+00	3,600	5.4E-05	6.21E-01			
TCE	100	290	<110	5.5E-07	1.90E-01	<11	5.5E-08	1.90E-02	<27	1.4E-07	4.66E-02	<11	5.5E-08	1.90E-02			
				6.E-04	7.6E+00		5.E-05	5.7E-01		1.E-05	1.5E+00		5.E-05	6.4E-01			

VP-8					
Chemical	Screening Level (µg/m3)		Concentration (ug/m3)	Potential Risk	
	Cancer	Non-Cancer		CR	HQ
PCE	67	5,800	670	1.0E-05	1.16E-01
TCE	100	290	<5.5	2.8E-08	9.48E-03
				1.E-05	1.3E-01

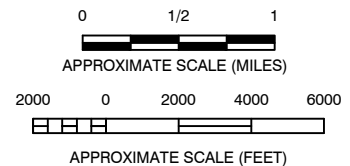
Notes:
Sub-slab soil vapor screening levels derived using a soil vapor to indoor air attenuation factor of 0.03

FIGURES



CALIFORNIA

REFERENCE: DELORME TOPO MAP, TORRANCE, CALIFORNIA



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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**

JOB NUMBER:
185804849

DRAWN BY:
STA

CHECKED BY:
BC

APPROVED BY:
BC

FIGURE:

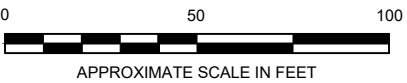
1

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

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 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: 2
	JOB NUMBER: 185804980	DRAWN BY: JBL	CHECKED BY: BC	APPROVED BY: LS	DATE: 02/12/21

ATTACHMENT A

CERTIFIED LABORATORY ANALYTICAL 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.

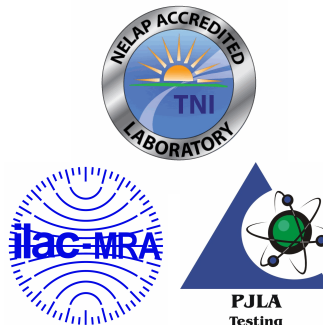
We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

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

Reported:
16-Feb-21 12:25

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
Project Number: 185804979 / Skypark Dr
Project Manager: Ben Chevlen

Reported:
16-Feb-21 12:25

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	"	"	"	"	"	"	

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 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

" " " "

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-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
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-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
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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-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
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

98.6 % 76-134 " " " "
104 % 78-125 " " " "
106 % 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-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:
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-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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Project: ST020821-12
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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-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
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-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	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		92.6 %	76-134		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	78-125		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		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	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
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Project: ST020821-12
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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-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
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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-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
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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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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	"	"	"	"	"	"	

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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
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
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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
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	"	"	"	"	"	"	

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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
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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	"	"	"	"	"	"	
<hr/>									
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	"

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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

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Project: ST020821-12
Project Number: 185804979 / Skypark Dr
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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			

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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	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): <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:

Lab Client and Project Information					
Lab Client/Consultant:		Project Name / #:			
Lab Client Project Manager:		Project Location:			
Lab Client Address:		Report E-Mail(s):			
Lab Client City, State, Zip:					
Phone Number:					
Reporting Requirements		Turnaround Time		Sampler Information	
<input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Level III <input type="checkbox"/> Level IV		<input checked="" type="checkbox"/> Standard (7 days for preliminary report, 10 days for final report)		Sampler(s):	
<input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD:		<input type="checkbox"/> Rush (specify):		Signature:	
<input type="checkbox"/> CA Geotracker Global ID:				Date:	

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: 60204	Temp: RT
Outside Lab:	
Receipt Notes/Tracking #:	
Lab PM Initials: VLB	

[illegible]

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. Villarreal Scanned: Tlo-s

		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 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 Leypark Dr

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

SAMPLE ID: <u>IA-1 Pop</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>
Flow Cont ID #:	<u>F222</u>	Start Time:	<u>0748</u>	Check Time:	<u>1117</u>	Check Time:	<u>1424</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 Date:	<u>02-05-21</u>
						End Time:	<u>1748</u> <u>1749</u> <u>1749</u> <u>1749</u>
						End Vac ("Hg):	<u>-4</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. Villanueva Scanned: TLWS

SAMPLE ID: <u>IA-2</u>							
Summa ID #:	<u>502</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>F239</u>	Start Time:	<u>0747</u>	Check Time:	<u>1116</u>	Check Time:	<u>1423</u>
Flow Rate (hrs or cc/min):	<u>104</u>	Start Vacuum ("Hg):	<u>-30</u>	Check Vac ("Hg):	<u>-22</u>	Check Vac ("Hg):	<u>-14</u>
						End Date:	<u>02-05-21</u>
						End Time:	<u>1748</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
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: IA-3							
Summa ID #:	489	Start Date:	02-05-21	Check Date:	02-05-21	Check Date:	02-05-21	End Date:	02-05-21
Flow Cont ID #:	F235	Start Time:	0752	Check Time:	1120	Check Time:	1425	End Time:	1747
Flow Rate (hrs or cc/min):	10 Hr	Start Vacuum ("Hg):	-30	Check Vac ("Hg):	-22	Check Vac ("Hg):	-14	End Vac ("Hg):	-5

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: 2530/2540 Skyway Dr

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

		SAMPLE ID: IA-2014 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

Consultant: Startec

Site Address: 257012540 S/lyparks Dr

Consultant Rep: Emily Medler

Reviewed: EL

H&P Rep: J. Arellano, B. Villalobos 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>
Flow Cont ID #:	<u>F227</u>	Start Time:	<u>0756</u>	Check Time:	<u>1120</u>	Check Time:	<u>1426</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 Date:	<u>02-05-21</u>			End Time:	<u>1753</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: Stantec
Consultant Rep: Emily Medler 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
Site Address: 2530/2540 skipper's Dr

Consultant: Stantec
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: Thom

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>10Hr</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. Villaneda Scanned: TL-5

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>	End 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>	End Time: <u>1818</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 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: 2570/2540 Skypark Dr

Consultant: stantec
Consultant Rep: Emily Medler Reviewed: EC
H&P Rep: J. Arellano, P. 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	"	"	"	"	"	"	

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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
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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	"	"	"	"	"	"	

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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-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		"	"	"	"	

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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-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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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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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		"	"	"	"	

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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-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	"	"	"	"	"	"	

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-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	"	"	"	"	"	"	

Stantec - Thousand Oaks
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Project: ST021221-12
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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 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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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-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	"	"	"	"	"	"	

Stantec - Thousand Oaks
290 Conejo Ridge Avenue, Suite 200
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Project Number: 185804979 / Skypark Dr
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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
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-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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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									
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
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 - 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	"

Stantec - Thousand Oaks
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Thousand Oaks, CA 91361

Project: ST021221-12
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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

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	"

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

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

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 - 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 2120</u>	
Lab Work Order # <u>EA E102047</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												Leak Check Compound	Methane by EPA	Fixed Gases by ASTM D1945																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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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

FMS006
Revision: 3
Revised: 1/15/2016
Effective: 1/25/2016
Page 1 of 1

H&P Project #: ST021021-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	58.2	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	670	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 nylon flow with 1-way valve termination to Vapor pin