

Appendix G. Phase II Environmental Site Assessment



**Phase II Environmental Site
Assessment**

5770 Industrial Parkway
San Bernardino, California 82407

June 9, 2021

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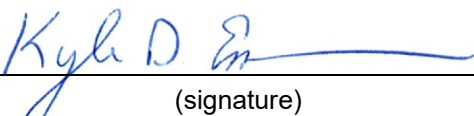


PHASE II ENVIRONMENTAL SITE ASSESSMENT

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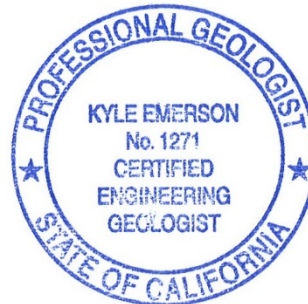


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Executive Summary

Stantec Consulting Services Inc. (Stantec) has prepared this Phase II Environmental Site Assessment (ESA) report for the property located at 5770 Industrial Parkway, City of San Bernardino, County of San Bernardino, California (the “Property”, Figure 1), on behalf of Dedeaux Properties, LLC (Dedeaux, the “Client”).

The Property consists of approximately 12.45 acres of land developed with one approximately 35,000 square foot building occupied by multiple wood pallet manufacturing and sales companies. Surrounding properties are a mixture of vacant land, commercial, and industrial properties including a large-scale propane gas sales facility. Railroad tracks are located adjacent to the south. An unpermitted landfill is reportedly located within approximately 200 feet of the Property. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2. The Assessor Parcel Numbers (APNs) associated with the Property include 0266-041-22 and 0266-041-40.

The Property was undeveloped until the current building was constructed in circa 1982. Between 1982 and 2018, the Property was occupied by Fred G Walter & Son machine shop which specialized in mining industry equipment fabrication and repairs. Fuel and waste oil underground storage tanks (UST), abrasive blasting equipment, and a pressure washing area with an aboveground clarifier were used on-site. Hazardous materials utilized on-site included compressed gases, grease, oil, diesel fuel, solvents, and parts cleaner. Multiple notices of violation were issued for management of hazardous waste and use oil and waste spills.

Stantec completed a Phase I ESA for the Property which revealed the following evidence of recognized environmental conditions (RECs) in connection with the Property:

- **Adjacent Railroad Tracks.** Railroad tracks are located adjacent to the west-southwest of the Property. Herbicides are commonly applied to railroad alignments, and heavy metals associated with herbicidal application are commonly found in these areas. In the event of redevelopment of the Property, Stantec recommends collecting shallow soil samples along this Property boundary and submitting the samples to the laboratory for analysis of arsenic and lead. Soil sampling is recommended for protection of construction workers during redevelopment activities. Stantec also recommends soil sampling in the event that soil is removed from the site during redevelopment, which will require profiling by chemical analysis to determine the proper location for disposal.
- **Former Property Features.** The San Bernardino County Fire Department issued a “no further action” letter on February 12, 2020 for the former 5,000-gallon diesel UST, 5,000-gallon gasoline UST, and 1,000-gallon waste oil clarifier/sump on the Property. Small spills and leaks are common with these features, which have the potential to affect surrounding soil vapor conditions. However, no soil vapor data has been collected to evaluate whether soil vapor beneath the Property has been



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impacted by the former USTs and clarifier/sump or the pressure washing station and drain. Therefore, these features are considered a REC to the Property.

- **Groundwater Plume Associated with Newmark Superfund Site.** The Newmark Groundwater Contamination Superfund Site encompasses 23 square miles and is located within the Bunker Hill Groundwater Basin. The groundwater plume extends beneath the Property. The groundwater contamination impacts the drinking water resources in the region. Chemicals of concern (COCs) include tetrachloroethylene (PCE) and trichloroethylene (TCE). The groundwater plume is considered a REC to the Property. Stantec recommends collection of soil vapor samples to evaluate whether soil vapor beneath the Property has been impacted by the groundwater plume.
- **Cajon Landfill.** The Cajon landfill is an unpermitted landfill that is located within 200 feet of the Property. Given the close proximity and potential for methane in the subsurface, the landfill is considered a REC to the Property. Stantec recommends collecting soil vapor samples on the Property to evaluate the potential methane impact to the subsurface from the nearby landfill.

To investigate these RECs, Stantec performed a Phase II ESA at the Property.

Phase II ESA Summary

On May 24, 2021, Stantec oversaw the advancement of two (2) soil borings (SB-1 and SB-2) and seven (7) soil vapor borings (SV-1 through SV-7). Stantec returned to the Property on May 27, 2021 to oversee the soil vapor sampling of SV-1 through SV-7. All soil and vapor borings are depicted on **Figure 2**.

Soils encountered during this assessment generally consisted predominately of poorly-graded sand with minor amounts of gravel to 15.5 feet below ground surface (bgs), the maximum depth explored during this investigation. PID readings were measured from 0.0 parts per million by volume (ppmV) up to 3.2 ppmV at location SV-1 and SV-3. Soil boring logs from this assessment are attached as **Appendix A**.

Laboratory analytical test results and methane field readings sheets from this assessment are attached as **Appendix B**. The laboratory test results from this investigation are discussed below and were compared to the more conservative value between the DTSC Human and Ecologic Risk Office (HERO), Note 3 screening levels for commercial land use (DTSC, 2020), and the USEPA Regional Screening Levels (RSLs) for commercial sites (USEPA, 2020). All soil concentrations are reported and discussed in units of milligrams per kilogram (mg/kg) and summarized in **Table 1**. Soil vapor concentrations are reported and discussed in units of micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), evaluated using an attenuation factor (AF) of 0.03, and summarized in **Table 2**.

Low concentrations of TPHd and TPHo were detected in soil samples collected from locations SV-1 through SV-4. The detected TPHd and TPHo concentrations did not exceed commercial, or residential, use soil screening criteria.

No VOCs were detected above the laboratory reporting limits in the soil samples analyzed (*i.e.*, results were “non-detect”).



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Lead, commonly associated with pesticide and herbicide application, was detected in shallow soils adjacent to the nearby railroad easement up to peak concentration of 13 mg/kg. All detected lead concentrations are below within the southern California regional background range of 12.4-97.1 mg/kg, and below the commercial use screening level of 320 mg/kg. Arsenic was not detected above the laboratory reporting limit in the soil samples analyzed (*i.e.*, results were “non-detect”).

The refrigerants trichlorofluoromethane (Freon 11) and dichlorodifluoromethane (Freon 12), and the chlorinated compound tetrachloroethylene (PCE) were detected in soil vapor samples during this investigation, as summarized below.

- PCE: at 171 $\mu\text{g}/\text{m}^3$ (SV-5-15).
- Freon 11: up to 840 $\mu\text{g}/\text{m}^3$ (SV-6-15 REP).
- Freon 12: up to 11,000 $\mu\text{g}/\text{m}^3$ (SV-5-15).

All detections of Freon 11 and Freon 12 are below their respective soil vapor screening levels for commercial land use using an AF of 0.03. However, the single detection of PCE, located at boring SV-5 in the western corner of the Property at fifteen feet bgs, of 170 $\mu\text{g}/\text{m}^3$ exceeds the commercial use screening level of 67 $\mu\text{g}/\text{m}^3$, using an attenuation factor of 0.03. The PCE detection does not exceed the risk-based commercial screening level of 2,000 $\mu\text{g}/\text{m}^3$ using an attenuation factor of 0.001.

Methane was measured at 0.0 percent by volume (%vol) using the Landtec GEM 500 landfill gas meter in all soil vapor probes during this investigation. Further, oxygen (O_2) was measured at 16.1 – 19.9 %vol, and carbon dioxide (CO_2) was measured at 0.2 – 2.9 %vol.

Conclusions and Recommendations

This investigation has identified the presence of lead at low concentrations within shallow soils adjacent to the railroad easement which is adjacent southwest of the Property. All lead detections in this area are below commercial/industrial use soil screening criteria. Stantec recommends no further investigation related to the railroad easement located adjacent to the Property. Therefore, the adjacent railroad tracks are no longer considered a REC to the Property.

Measured methane, oxygen, and carbon dioxide content collected from soil vapor probes during this investigation are not indicative of soil vapor conditions being influenced by the nearby Cajon Landfill. Therefore, Stantec recommends no further investigation related to the Cajon Landfill. Vapor protection is not necessary to address methane or other landfill gases, and Cajon Landfill is no longer considered a REC to the Property.

This investigation has identified the presence of total petroleum hydrocarbons (TPH) at low concentrations within shallow soils near the former features at the Property, which include the USTs and oil sump/clarifier removed from the Property. All soil detections of TPH are below commercial/industrial use soil screening criteria. Soil vapor data collected in these areas of concern across the Site indicate the presence of the refrigerant VOCs Freon -12 and -13. All detected concentrations of these chemicals are below the commercial/ industrial screening levels using the most conservative attenuation factor (AF)



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of 0.03, which DTSC uses for screening purposes. Therefore, Stantec recommends no further investigation related to the former USTs and oil sump/clarifier, and the former property features are no longer considered a REC.

This investigation has identified the presence of PCE in soil vapor at a single location (SV-5-15) at 170 $\mu\text{g}/\text{m}^3$, which exceeds the conservative commercial screening level of 67 $\mu\text{g}/\text{m}^3$ using an attenuation factor of 0.03. However, the detected concentration is below the risk-based commercial screening level of 2,000 $\mu\text{g}/\text{m}^3$ using an attenuation factor of 0.001, used by regulatory agencies to evaluate the necessity of vapor mitigation. PCE was not detected at any other location on the Property, and was not identified in the sample collected at 5 feet below ground surface (bgs). Given the PCE was only detected at the sample taken at 15 feet bgs, and no PCE was detected at any of the other six boring locations on the Property, the PCE is likely from the known groundwater plume associated with the Newmark Superfund Site, and not indicative of a source on the Property. Based on the low concentration of PCE detected at the Property vapor intrusion is not considered to be a significant concern and vapor mitigation is not required based on the current concentrations of these chemicals.

Given the long history of industrial operations on the Property, there is potential for undocumented structures (*i.e.* septic tanks, hydraulic lifts, and other buried objects) to be discovered during Property redevelopment activities. Therefore, Stantec recommends that a Soil Management Plan (SMP) be developed for the Property to be used during future earthwork activities.

The preceding summary is intended for information purposes; reading the body of the report is recommended.



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Introduction

1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec) has prepared this Phase II Environmental Site Assessment (ESA) report for the property located at 5770 Industrial Parkway, City of San Bernardino, County of San Bernardino, California (the "Property", Figure 1), on behalf of Dedeaux Properties, LLC (Dedeaux, the "Client"). The assessment activities presented in this report were completed in accordance with Stantec's *Proposal to Perform Phase II Environmental Site Assessment*, dated May 6, 2021. This assessment was performed based on findings of a Phase I ESA performed for the Property by Stantec in 2021.

1.1 PROPERTY DESCRIPTION AND OPERATIONS

The Property consists of approximately 12.45 acres of land developed with one approximately 35,000 square foot building occupied by multiple wood pallet manufacturing and sales companies. Surrounding properties are a mixture of vacant land, commercial, and industrial properties including a large-scale propane gas sales facility. Railroad tracks are located adjacent to the south. An unpermitted landfill is reportedly located within approximately 200 feet of the Property. A Property location map is illustrated on Figure 1. A Property map illustrating the main features of the Property is provided as Figure 2. The Assessor Parcel Numbers (APNs) associated with the Property include 0266-041-22 and 0266-041-40.

The Property was undeveloped until the current building was constructed in circa 1982. Between 1982 and 2018, the Property was occupied by Fred G Walter & Son machine shop which specialized in mining industry equipment fabrication and repairs. Fuel and waste oil underground storage tanks (UST), abrasive blasting equipment, and a pressure washing area with an aboveground clarifier were used on-site. Hazardous materials utilized on-site included compressed gases, grease, oil, diesel fuel, solvents, and parts cleaner. Multiple notices of violation were issued for management of hazardous waste and use oil and waste spills.

1.2 PROPERTY GEOLOGY AND HYDROGEOLOGY

The Property is located within the San Bernardino Valley, which is bounded on the north by the San Bernardino Mountains and San Gabriel Mountains, on the south and east by the Badlands and Crafton Hills, and on the west by the San Jose Hills. The valley is underlain by several fault-bound structural blocks, including the down-dropped San Bernardino Valley Block between the San Andreas and San Jacinto faults, in the area of the Property, and the down-dropped Perris Block between the Elsinore fault to the west, the Cucamonga fault to the north, and the San Jacinto fault to the east. The San Andreas Fault is located within a ½ mile of the Property. Near-surface deposits in the Property area consist of sands, silts, and clays, sourced from the nearby San Bernardino and San Gabriel mountains. Specifically, soils encountered on the Property during this investigation consisted of poorly graded sand with minor amounts of gravel and silt to the maximum explored depth of 15.5 feet.

The Property is located within the Bunker Hill Basin of the Santa Ana River watershed. Groundwater in the basin is recharged by streams and creeks that carry surface water from the nearby San Bernardino



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Introduction

and San Gabriel Mountains, and from direct infiltration of precipitation into the surface alluvial deposits. Groundwater in the area occurs within the upper and lower alluvial sediments, and within the subjacent Pelona Schist bedrock northeast of the Property. Groundwater elevations fluctuate extensively due to municipal supply and pumping and heavy recharge from the nearby mountains.

Groundwater monitoring data published on the California Water Resources Control Board database website Geotracker (www.geotracker.waterboards.ca.gov) indicates that groundwater within the area of the subject property flows in a southeasterly direction within the sediment units. Groundwater is reported at depths ranging from 120 to over 250 feet below ground surface (bgs) in the vicinity of the Property. Observed historical fluctuations in local groundwater elevations are on the order of up to 220 feet. The sand and gravelly sands typically found in the area of the Property have excellent water-bearing and water-yielding characteristics. No groundwater was encountered during this investigation.



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Background

2.0 BACKGROUND

Stantec completed a Phase I ESA for the Property which revealed the following evidence of recognized environmental conditions (RECs) in connection with the Property:

- **Adjacent Railroad Tracks.** Railroad tracks are located adjacent to the west-southwest of the Property. Herbicides are commonly applied to railroad alignments, and heavy metals associated with herbicidal application are commonly found in these areas. In the event of redevelopment of the Property, Stantec recommends collecting shallow soil samples along this Property boundary and submitting the samples to the laboratory for analysis of arsenic and lead. Soil sampling is recommended for protection of construction workers during redevelopment activities. Stantec also recommends soil sampling in the event that soil is removed from the site during redevelopment, which will require profiling by chemical analysis to determine the proper location for disposal.
- **Former Property Features.** The San Bernardino County Fire Department issued a “no further action” letter on February 12, 2020 for the former 5,000-gallon diesel UST, 5,000-gallon gasoline UST, and 1,000-gallon waste oil clarifier/sump on the Property. Small spills and leaks are common with these features, which have the potential to affect surrounding soil vapor conditions. However, no soil vapor data has been collected to evaluate whether soil vapor beneath the Property has been impacted by the former USTs and clarifier/sump or the pressure washing station and drain. Therefore, these features are considered a REC to the Property.
- **Groundwater Plume Associated with Newmark Superfund Site.** The Newmark Groundwater Contamination Superfund Site encompasses 23 square miles and is located within the Bunker Hill Groundwater Basin. The groundwater plume extends beneath the Property. The groundwater contamination impacts the drinking water resources in the region. Chemicals of concern (COCs) include tetrachloroethylene (PCE) and trichloroethylene (TCE). The groundwater plume is considered a REC to the Property. Stantec recommends collection of soil vapor samples to evaluate whether soil vapor beneath the Property has been impacted by the groundwater plume.
- **Cajon Landfill.** The Cajon landfill is an unpermitted landfill that is located within 200 feet of the Property. Given the close proximity and potential for methane in the subsurface, the landfill is considered a REC to the Property. Stantec recommends collecting soil vapor samples on the Property to evaluate the potential methane impact to the subsurface from the nearby landfill.

To investigate these RECs, Stantec performed a Phase II ESA at the Property.



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Field Investigation

3.0 FIELD INVESTIGATION

Prior to the commencement of fieldwork activities, Stantec made the following preparations:

3.1 PRE-DRILLING ACTIVITIES

- Stantec visited the Property to mark the proposed boring locations. Subsequent to the marking, Stantec notified Underground Service Alert (USA) of Southern California at least 48-hours prior to the commencement of drilling activities; and,
- In accordance with federal Occupational Safety and Health Administration (OSHA) regulations (29 CFR, Section 1910.120), Stantec developed a site-specific Health and Safety Plan (HASP) for the Property. All Stantec personnel and subcontractors associated with the project were required to be familiar with and comply with all provisions of the HASP.

3.2 INVESTIGATION

On May 24, Stantec supervised and directed the advancement of multiple soil and soil vapor borings at the Property. All work was conducted under the direct oversight of a State of California professional and included the following:

- Advancement of two (2) soil borings (SB-1 and SB-2); and,
- Advancement of seven (7) soil vapor borings (SV-1 through SV-7).

All boring locations advanced during this investigation are depicted on **Figure 2**.

3.2.1 Soil Boring Procedures

A hand auger was used for utility clearance purposes to a depth of five feet bgs within each soil vapor boring location. Soil samples collected within this interval were discharged directly from the hand auger into laboratory-provided pre-cleaned eight-ounce glass jars outfitted with Teflon® -lined lids. All soil samples were labeled with the appropriate identifying information (boring location, depth, sample collection time, sample collection date), logged onto a chain-of-custody, and stored in an ice-filled cooler pending delivery to the analytical laboratory.

Once the five-foot depth has been reached, advancement of borings SB-1 through SB-6 was performed using a Geoprobe direct push rig. During advancement, sampling of subsurface soils was performed starting at a depth of approximately five feet bgs. All of the direct push borings were advanced and sampled using a Geoprobe 6620DT rig equipped with 4-foot-long by 1.25-inch inner-diameter sampler with acetate sample liners to the terminal depth of the borehole.

At each sampling interval, the sampler was driven into undisturbed soil using a hydraulic ram on the Geoprobe rig. Upon advancement of the sampler through the desired sampling depth interval, the



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Field Investigation

sample liner was retrieved from the boring. The drilling and sampling sequences was then repeated at 5 feet intervals for the entire depth of the boring.

The soils from each of the direct push borings were visually examined by Stantec field personnel who classified the soils in accordance with the Unified Soil Classification System (USCS). A photo-ionization detector (PID) was used to monitor/field screen the soils collected. Field screening for VOCs was achieved by removing the soil from the uppermost sample sleeve and placing it in a zip-lock type baggie. A PID probe was inserted into the baggie to monitor the headspace for VOC vapors.

3.2.2 Soil Vapor Probe Installation

At the completion of drilling to target depth in soil boring SB-1 through SB-7, soil vapor points were installed in each boring and identified as soil vapor points SV-1 through SV-7. At each location vapor sampling points were installed at multi-depths at the five- and fifteen-foot depth intervals. Subsurface soil vapor probe installation was performed in accordance with the July 2015 DTSC “Advisory - Active Soil Gas Investigations” (DTSC Advisory).

Each sample probe was constructed with a 1-inch-long Airstone sampling screen set at the prescribed sampling intervals. Each of the sampling screens was constructed with a permeable Airstone vapor tip connected to ¼-inch outer diameter Nylaflow tubing that was lowered to the bottom of the borehole and backfilled with filter sand, until approximately 12-inches of filter pack was placed. A transition seal consisting of approximately 12-inches of dry bentonite was then placed above the filter pack, followed by an annular seal consisting of hydrated bentonite until the next sampling interval was reached. The sequence was then repeated to install the second monitoring point, and/ or completely backfill the borehole. At the surface, the exposed nylon tubing was capped with tight fitting plastic endcaps and labeled to indicate sampling depth, and covered with plastic sheeting to protect against rainfall events. After placement of the soil vapor sample probes on May 24, 2021, subsurface conditions were allowed to equilibrate more than the DTSC minimum of 48-hours prior to leak testing and sample collection on May 27, 2021.

3.2.3 Soil Vapor Sampling

Soil vapor samples were collected on May 27, 2021 in accordance with the methods and procedures outlined by the DTSC Advisory, a minimum of 48-hours after installation in order to allow for equilibration.

Soil vapor from each location was field screened for the presence of methane using a LandTec GEM 5000 landfill gas meter. The field measurements were recorded, and VOC sampling was then commenced.

Prior to sampling, a shut-in test was conducted on the sampling train to ensure all connections and fittings were airtight. The shut-in test was performed on the sampling train by applying a vacuum of 100 inches of water to the sampling train and monitoring magnehelic gauges for a pressure drop for one minute. If loss of vacuum was observed, the fittings were adjusted as needed until no vacuum loss was observed during subsequent shut-in tests.



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After the sampling equipment passed the shut-in test, the probes were purged using an air pump outfitted with a low-flow module to remove internal air from the sample train (calculated from the internal volume of the tubing and probe tip); the void space of the sand pack around the probe tip; and the void space of the dry bentonite (in the annular space). Three internal volumes were purged from each sampling location at a rate less than 200 milliliters per minute (ml/min).

Immediately following purging the internal volumes, the soil vapor samples were collected into glass syringes at a flow rate not exceeding 200 ml/min, and delivered to an on-site mobile laboratory for analyses. A tracer compound of 1,1-difluoroethane (DFA) was placed above the surface seal and along the sampling train to evaluate the integrity of the seal. No tracer compounds were detected in the soil vapor samples collected during this investigation. Soil vapor sample analysis is discussed in Section 4.0.

3.2.4 Field Equipment Cleaning Procedures

To maintain quality control during drilling operations, all drill rods and reusable soil sampling equipment was decontaminated using a triple bucket rinse. Prior to drilling at a given location or sampling interval, all equipment coming in direct contact with soil samples was scrubbed with an Alconox scrub solution followed by a clean tap water rinse and then a final distilled water rinse. The disposable acetate soil sample liners were used for one sampling interval and then discarded.



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Laboratory Testing Program

4.0 LABORATORY TESTING PROGRAM

Soil samples collected during this investigation were delivered under chain of custody to Environmental Treatment & Technology Inc., dba Advanced Technology Laboratories (ATL), located in Signal Hill, California. Soil samples were submitted for potential analyses of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), and lead by United States Environmental Protection Agency (USEPA) test methods 8015B, 8260B, and 6010B, respectively.

Soil vapor samples collected during this investigation were delivered under chain of custody and analyzed by an on-site laboratory, operated by H7p Mobile Geochemistry (H&P), based out of Carlsbad, California. All soil vapor samples were submitted for analysis of VOCs by USEPA test method 8260B. The laboratory data report is attached as **Appendix B**.



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Investigation Results

5.0 INVESTIGATION RESULTS

5.1 FIELD OBSERVATIONS

On May 24, 2021, Stantec oversaw the advancement of two (2) soil borings (SB-1 and SB-2) and seven (7) soil vapor borings (SV-1 through SV-7). Stantec returned to the Property on May 27, 2021 to oversee the soil vapor sampling. All soil borings are depicted on **Figure 2**.

Soils encountered during this assessment generally consisted predominately of poorly-graded sand with minor amounts of gravel to 15.5 feet below ground surface (bgs), the maximum depth explored during this investigation. PID readings were measured from 0.0 parts per million by volume (ppmV) up to 3.2 ppmV at location SV-1 and SV-3. Soil boring logs from this assessment are attached as **Appendix A**.

5.2 ANALYTICAL RESULTS

Laboratory analytical test results and methane field readings sheets from this assessment are attached as **Appendix B**. The laboratory test results from this investigation are discussed below and were compared to the more conservative value between the DTSC Human and Ecologic Risk Office (HERO), Note 3 screening levels for commercial land use (DTSC, 2020), and the USEPA Regional Screening Levels (RSLs) for commercial sites (USEPA, 2020). All soil concentrations are reported and discussed in units of milligrams per kilogram (mg/kg) and summarized in **Table 1**. Soil vapor concentrations are reported and discussed in units of micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), evaluated using an attenuation factor (AF) of 0.03, and summarized in **Table 2**.

5.2.1 Soil Results

Low concentrations of TPHd and TPHo were detected in soil samples collected from locations SV-1 through SV-4. The detected TPHd and TPHo concentrations did not exceed commercial, or residential, use soil screening criteria.

No VOCs were detected above the laboratory reporting limits in the soil samples analyzed (*i.e.*, results were “non-detect”).

Lead, commonly associated with pesticide and herbicide application, was detected in shallow soils adjacent to the nearby railroad easement up to peak concentration of 13 mg/kg. All detected lead concentrations are below within the southern California regional background range of 12.4-97.1 mg/kg, and below the commercial use screening level of 320 mg/kg. Arsenic was not detected above the laboratory reporting limit in the soil samples analyzed (*i.e.*, results were “non-detect”).



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Investigation Results

5.2.2 Soil Vapor Results

The refrigerants trichlorofluoromethane (Freon 11) and dichlorodifluoromethane (Freon 12), and the chlorinated compound tetrachloroethylene (PCE) were detected in soil vapor samples during this investigation, as summarized below.

- PCE: at 171 $\mu\text{g}/\text{m}^3$ (SV-5-15).
- Freon 11: up to 840 $\mu\text{g}/\text{m}^3$ (SV-6-15 REP).
- Freon 12: up to 11,000 $\mu\text{g}/\text{m}^3$ (SV-5-15).

All detections of Freon 11 and Freon 12 are below their respective soil vapor screening levels for commercial land use using an AF of 0.03. However, the single detection of PCE, located at boring SV-5 at fifteen feet bgs, of 170 $\mu\text{g}/\text{m}^3$ exceeds the commercial use screening level of 67 $\mu\text{g}/\text{m}^3$, using an attenuation factor of 0.03. The PCE detection does not exceed the risk-based commercial screening level of 2,000 $\mu\text{g}/\text{m}^3$ using an attenuation factor of 0.001.

Methane was measured at 0.0 percent by volume (%vol) using the Landtec GEM 500 landfill gas meter in all soil vapor probes during this investigation. Further, oxygen (O_2) was measured at 16.1 – 19.9 %vol, and carbon dioxide (CO_2) was measured at 0.2 – 2.9 %vol.



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Conclusions and Recommendations

6.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation has identified the presence of total petroleum hydrocarbons (TPH) at low concentrations within shallow soils near the former features at the Property, which include the USTs and oil sump/clarifier removed from the Property. All soil detections of TPH are below commercial/industrial use soil screening criteria. Soil vapor data collected in these areas of concern across the Site indicate the presence of the refrigerant VOCs Freon -12 and -13. All detected concentrations of these chemicals are below the commercial/ industrial screening levels using the most conservative attenuation factor (AF) of 0.03, which DTSC uses for screening purposes. Therefore, Stantec recommends no further investigation related to the former USTs and oil sump/clarifier, and the former property features are no longer considered a REC.

This investigation has identified the presence of PCE in soil vapor at a single location (SV-5-15) at 170 $\mu\text{g}/\text{m}^3$, which exceeds the conservative commercial screening level of 67 $\mu\text{g}/\text{m}^3$ using an attenuation factor of 0.03. However, the detected concentration is below the risk-based commercial screening level of 2,000 $\mu\text{g}/\text{m}^3$ using an attenuation factor of 0.001, used by regulatory agencies to evaluate the necessity of vapor mitigation. PCE was not detected at any other location on the Property, and was not identified in the sample collected at 5 feet below ground surface (bgs). Given the PCE was only detected at the sample taken at 15 feet bgs, and no PCE was detected at any of the other six boring locations on the Property, the PCE is likely from the known groundwater plume associated with the Newmark Superfund Site, and not indicative of a source on the Property. Based on the low concentration of PCE detected at the Property vapor intrusion is not considered to be a significant concern and vapor mitigation is not required based on the current concentrations of these chemicals.

Given the long history of industrial operations on the Property, there is potential for undocumented structures (i.e. septic tanks, hydraulic lifts, and other buried objects) to be discovered during Property redevelopment activities. Therefore, Stantec recommends that a Soil Management Plan (SMP) be developed for the Property to be used during future earthwork activities.



PHASE II ENVIRONMENTAL SITE ASSESSMENT

Limitations

7.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on data described in this report. The opinions of this report have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations. Stantec makes no other warranty, either expressed or implied, concerning the conclusions and professional advice that is contained within the body of this report.

Inherent in most projects performed in a heterogeneous subsurface environment, continuing excavation and assessments may reveal findings that are different than those presented herein. This facet of the environmental profession should be considered when formulating professional opinions on the limited data collected on these projects.

This report has been issued with the clear understanding that it is the responsibility of the owner, or their representative, to make appropriate notifications to regulatory agencies. It is specifically not the responsibility of Stantec to conduct appropriate notifications as specified by current County and State regulations.

The information presented in this report is valid as of the date our exploration was performed. Site conditions may degrade with time; consequently, the findings presented herein are subject to change.



TABLES



Table 1
Summary of Soil Analytical Results - VOCs and TPH
5770 Industrial Pkwy.
San Bernardino, California
Stantec Project No.: 185805145

Sample ID	Sample Depth (feet)	Sample Date	TPH by 8015			VOCs by 8260							Metals by 6010		
			GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	p/m-Xylene	o-Xylene	PCE	TCE	Various	Arsenic	Lead
Commercial Screening Levels ⁽¹⁾			420	440	33,000	1.4	5,300	25	2,400	2,800	2.7	6.0	Various	4.2	320
Southern California Background Levels ⁽²⁾			NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	0.6-11.0 ⁽³⁾	12.4-97.1
SV-1-15	15	5/24/21	<1.0	2.1	4.1	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<varies	NA	NA
SV-2-15	15	5/24/21	<1.0	5.8	6.6	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<varies	NA	NA
SV-3-10	10	5/24/21	<1.0	5.1	5.1	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<varies	NA	NA
SV-4-10	10	5/24/21	<1.0	<1.0	2.8	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<varies	NA	NA
SB-1-1	1	5/24/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	2.5
SB-2-1	1	5/24/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	13
SV-5-1	1	5/24/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	11
SV-6-1	1	5/24/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	4.3

Notes:

All concentrations reported in milligrams per kilogram (mg/kg).

(1) More conservative screening level between USEPA Region 9 RSL (November 2020) and DTSC HERO Note 3 (June 2020)

(2) Background Concentrations of Trace and Major Elements in California Soils (Bradford et al., 1996)

(3) Determination of a Southern California Regional Background Arsenic Concentration in Soil (Chernoff et al., DTSC, 2012)

Abbreviations

DRO - Diesel Range Organic

DTSC - Department of Toxic Substance Control

HERO - Human and Ecological Risk Office

GRO - Gasoline Range Organic

NE - Not Established

ORO - Oil Range Organic

PCE - Tetrachloroethylene

RSL - Regional Screening Level

TCE - Trichloroethene

USEPA - United States Environmental Protection Agency

VOC - Volatile Organic Compounds

BOLD Denotes analyte was detected above the laboratory reporting limit

< - Denotes analyte was not detected above the laboratory reporting limit

Table 2
Summary of Soil Vapor Analytical Results - VOCs
5770 Industrial Pkwy.
San Bernardino, California
Stantec Project No.: 185805145

Sample ID	Sample Depth	Sample Date	VOCs by 8260				
			1,1-DFA (LCC)	PCE	Freon-12	Freon-11	Other VOCs
Commercial Screening Level (0.03 AF) ⁽¹⁾			NE	67	14,667	176,667	varies
Commercial Screening Level (0.001 AF) ⁽¹⁾			NE	2,000	440,000	5,300,000	varies
SV-1-5	5	5/27/21	<400	<80	4,400	410	<varies
SV-1-15	15	5/27/21	<400	<80	8,800	760	<varies
SV-2-5	5	5/27/21	<400	<80	4,400	400	<varies
SV-2-15	15	5/27/21	<400	<80	7,200	610	<varies
SV-3-5	5	5/27/21	<400	<80	1,400	<400	<varies
SV-3-15	15	5/27/21	<400	<80	5,400	420	<varies
SV-4-5	5	5/27/21	<400	<80	3,300	280 J	<varies
SV-4-15	15	5/27/21	<400	<80	7,500	540	<varies
SV-5-5	5	5/27/21	<400	<80	4,300	330 J	<varies
SV-5-15	15	5/27/21	<400	170	11,000	740	<varies
SV-6-5	5	5/27/21	<400	<80	4,000	310 J	<varies
SV-6-15	15	5/27/21	<400	<80	9,800	820	<varies
SV-6-15 REP	15	5/27/21	<400	<80	10,000	840	<varies
SV-7-5	5	5/27/21	<400	<80	1,500	<400	<varies
SV-7-15	15	5/27/21	<400	<80	5,200	310 J	<varies

Notes:

All reported concentrations reported in units of micrograms per cubic meter (ug/m³)

(1) More conservative value between DTSC HERO HHRA Note #3 (June 2020) and USEPA RSL (May 2020)

< : Results reported below Method Detection Limit.

	Yellow shading indicates value above 0.03 AF commercial screening level.
	Red shading indicates value above 0.001 AF commercial screening level.

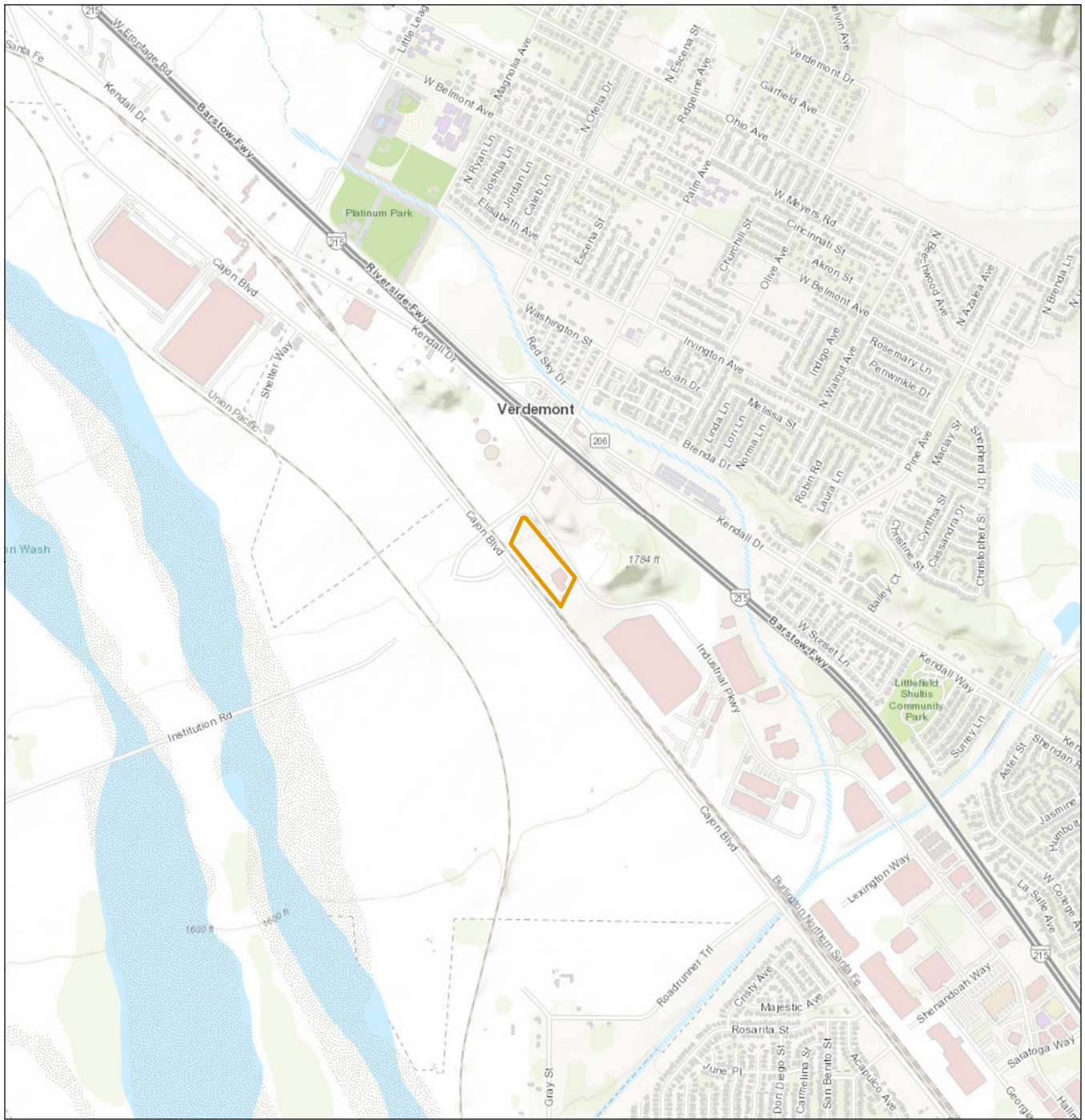
Abbreviations:

- AF - Attenuation Factor
- DFA - Difluoroethane
- DTSC - Department of Toxic Substance Control
- Freon-11 - Trichlorofluoromethane
- Freon-12 - Dichlorodifluoromethane
- HERO - Human and Ecological Risk Office Human Health Risk Assessment
- LCC - Leak Check Compound
- PCE - Tetrachloroethylene
- USEPA - United States Environmental Protection Agency
- VOC - Volatile Organic Compound

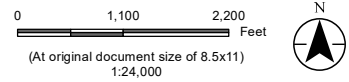
FIGURES



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 Property Boundary



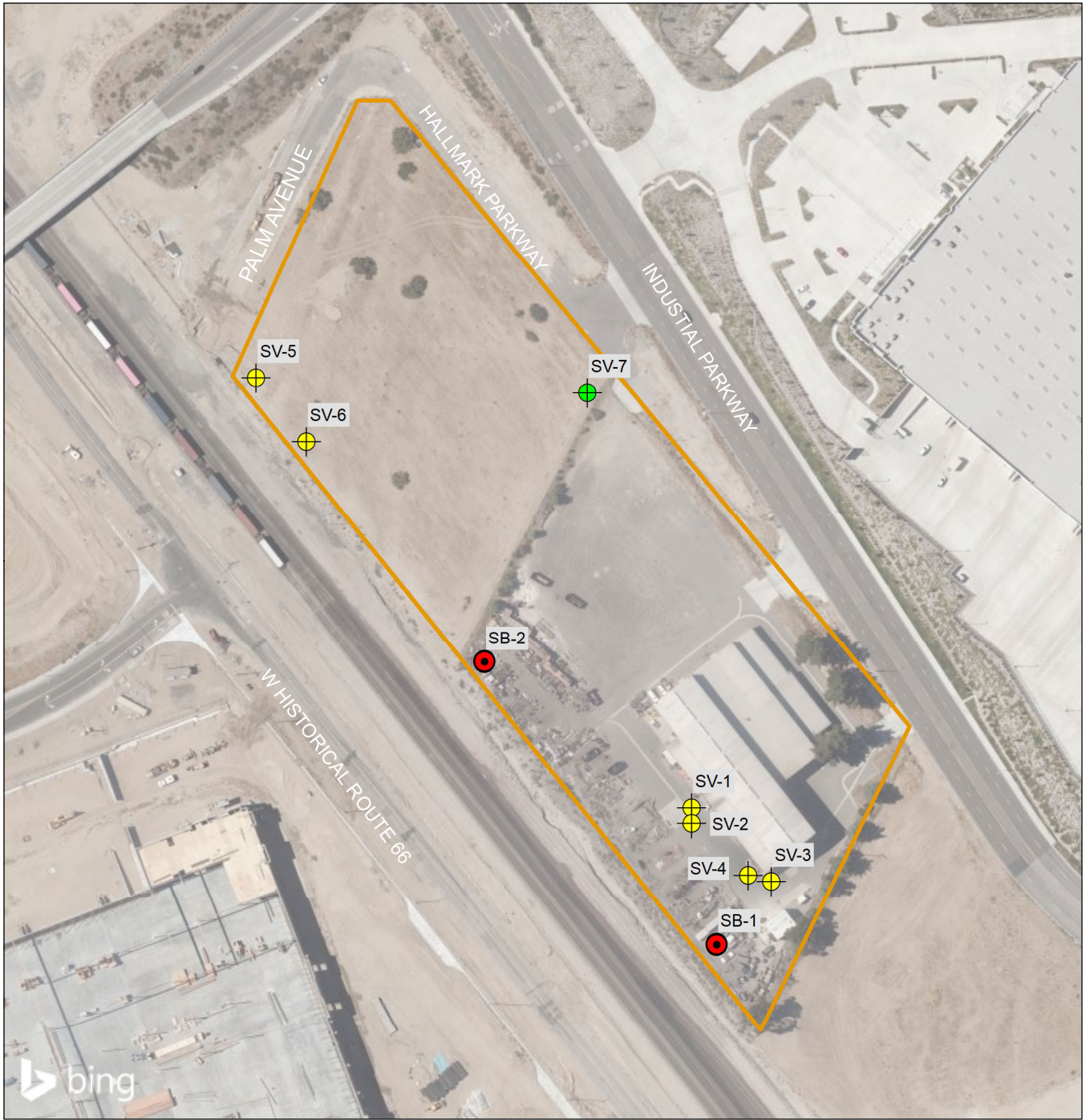
Project Location
5770 Industrial Parkway
San Bernardino, California
Client/Project
Dedeaux Properties
185805145
Phase I Environmental Site Assessment

Figure No.
1
Title
Property Location Map

Notes
1. Coordinate System: NAD 1983 UTM Zone 11N
2. Data Sources: Stantec, 2021
3. Background: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

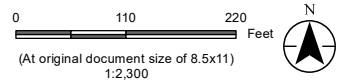
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Project Location

- Property Boundary
- Soil Boring
- Soil and Soil Vapor Boring Location
- Soil Vapor Boring Location



Project Location
 5770 Industrial Parkway
 San Bernardino, California
Client/Project
 Dedeaux Properties
 185805145
 Phase II Environmental Site Assessment

Figure No.
2

Title
PROPERTY DETAILS

Notes
 1. Coordinate System: NAD 1983 UTM Zone 11N
 2. Data Sources: Stantec, 2021
 3. Background: © 2021 Microsoft Corporation © 2021 Maxar ©CNES (2021) Distribution Airbus DS

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APPENDIX A

Soil Boring Logs



PROJECT: **Dedeaux - San Bernardino**
 LOCATION: **5770 Industrial Pkwy, San Bernardino, CA**
 PROJECT NUMBER: **185805145**

WELL / PROBEHOLE / BOREHOLE NO:

SV-1 PAGE 1 OF 1



DRILLING: STARTED **5/24/21** COMPLETED: **5/24/21**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **M&R Drilling**
 DRILLING EQUIPMENT: **6620DT**
 DRILLING METHOD: **DPT**
 SAMPLING EQUIPMENT: **Acetate**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **15.5**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2.25**
 LOGGED BY: **MFB** CHECKED BY: **AJ**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID Method	Measured Recovery (ft.)	Blow Count	PID Reading (ppmv)	Depth (feet)	Borehole Backfill
			6" Concrete							
		SP	POORLY GRADED SAND WITH GRAVEL ; SP; 10YR 4/4 dark yellowish brown; fine to coarse-grained; slightly moist; no odor; no staining; few to little gravel; few fines							
5		SP	POORLY GRADED SAND ; SP; 10YR 4/3 brown; fine to medium-grained; moist; no odor; no staining; few to little coarse sand; few fines; trace gravel		0836 SV-1-5			3.2	5	<ul style="list-style-type: none"> ← x2 1/4" Nylaflo Tubing in Hydrated Granular Bentonite Dry Granular Bentonite ← 1" Airstone in #3 Sand Filter Pack
10			SAME AS ABOVE ; 10YR 4/4 dark yellowish brown; fine to coarse-grained; trace to few fines		0840 SV-1-10			3.1	10	<ul style="list-style-type: none"> ← 1/4" Nylaflo Tubing in Hydrated Granular Bentonite
15			SAME AS ABOVE ; 10YR 5/3 brown		0844 SV-1-15			0.2	15	<ul style="list-style-type: none"> Dry Granular Bentonite ← 1" Airstone in #3 Sand Filter Pack
			Hole terminated at 15.5 feet.		8260 8015					

PROJECT: **Dedeaux - San Bernardino**
 LOCATION: **5770 Industrial Pkwy, San Bernardino, CA**
 PROJECT NUMBER: **185805145**

WELL / PROBEHOLE / BOREHOLE NO:

SV-2 PAGE 1 OF 1



DRILLING: STARTED **5/24/21** COMPLETED: **5/24/21**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **M&R Drilling**
 DRILLING EQUIPMENT: **6620DT**
 DRILLING METHOD: **DPT**
 SAMPLING EQUIPMENT: **Acetate**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **15.5**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2.25**
 LOGGED BY: **MFB** CHECKED BY: **AJ**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID Method	Measured Recovery (ft.)	Blow Count	PID Reading (ppmv)	Depth (feet)	Borehole Backfill
			6" Concrete							
		SP	POORLY GRADED SAND WITH GRAVEL ; SP; 10YR 4/4 dark yellowish brown; fine to coarse-grained; slightly moist; no odor; no staining; few to little gravel; few fines							
5		SP	POORLY GRADED SAND ; SP; 10YR 4/4 dark yellowish brown; fine to coarse-grained; slightly moist; no odor; no staining; few fines		0916 SV-2-5			2.6	5	<ul style="list-style-type: none"> ← x2 1/4" Nylaflo Tubing in Hydrated Granular Bentonite Dry Granular Bentonite ← 1" Airstone in #3 Sand Filter Pack
10			SAME AS ABOVE ; 10YR 4/3 brown		0918 SV-2-10			0.0	10	<ul style="list-style-type: none"> ← 1/4" Nylaflo Tubing in Hydrated Granular Bentonite
15			SAME AS ABOVE ; 10YR 4/4 brown		0938 SV-2-15 8260 8015			0.0	15	<ul style="list-style-type: none"> Dry Granular Bentonite ← 1" Airstone in #3 Sand Filter Pack
			Hole terminated at 15.5 feet.							

PROJECT: **Dedeaux - San Bernardino**
 LOCATION: **5770 Industrial Pkwy, San Bernardino, CA**
 PROJECT NUMBER: **185805145**

WELL / PROBEHOLE / BOREHOLE NO:

SV-3 PAGE 1 OF 1



DRILLING: STARTED **5/24/21** COMPLETED: **5/24/21**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **M&R Drilling**
 DRILLING EQUIPMENT: **6620DT**
 DRILLING METHOD: **DPT**
 SAMPLING EQUIPMENT: **Acetate**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **15.5**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2.25**
 LOGGED BY: **MFB** CHECKED BY: **AJ**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID Method	Measured Recovery (ft.)	Blow Count	PID Reading (ppmv)	Depth (feet)	Borehole Backfill
			4" Asphalt							
		SP	POORLY GRADED SAND ; SP; 10YR 3/3 dark brown; fine to coarse-grained; moist; no odor; no staining; few gravel; few fines							
5			SAME AS ABOVE ; fine to medium-grained; few to little fines; few coarse sand\		1002 SV-3-5			3.2	5	<ul style="list-style-type: none"> x2 1/4" Nylaflo Tubing in Hydrated Granular Bentonite Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack
10			SAME AS ABOVE ; trace gravel		1006 SV-3-10 8260 8015			3.1	10	<ul style="list-style-type: none"> 1/4" Nylaflo Tubing in Hydrated Granular Bentonite
15			SAME AS ABOVE ; 10YR 4/3 brown; fine to medium-grained; moist; no odor; no staining; few coarse sand; few fines Hole terminated at 15.5 feet.		1011 SV-3-15			0.2	15	<ul style="list-style-type: none"> Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack

PROJECT: **Dedeaux - San Bernardino**
 LOCATION: **5770 Industrial Pkwy, San Bernardino, CA**
 PROJECT NUMBER: **185805145**

WELL / PROBEHOLE / BOREHOLE NO:

SV-4 PAGE 1 OF 1



DRILLING: STARTED **5/24/21** COMPLETED: **5/24/21**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **M&R Drilling**
 DRILLING EQUIPMENT: **6620DT**
 DRILLING METHOD: **DPT**
 SAMPLING EQUIPMENT: **Acetate**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **15.5**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2.25**
 LOGGED BY: **MFB** CHECKED BY: **AJ**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID Method	Measured Recovery (ft.)	Blow Count	PID Reading (ppmv)	Depth (feet)	Borehole Backfill
			3" Asphalt							
		SP	POORLY GRADED SAND ; SP; 10YR 3/3 dark brown; fine to coarse-grained; moist; no odor; no staining; few gravel; few fines							
5		SP	POORLY GRADED SAND ; SP; 10YR 4/4 dark yellowish brown; fine to medium-grained; moist; no odor; no staining; few to little coarse sand; trace gravel		1045 SV-4-5			0.1	5	<ul style="list-style-type: none"> x2 1/4" Nylaflo Tubing in Hydrated Granular Bentonite Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack
10			SAME AS ABOVE ; fine to coarse-grained; trace to few fine gravel		1048 SV-4-10 8260 8015			0.0	10	<ul style="list-style-type: none"> 1/4" Nylaflo Tubing in Hydrated Granular Bentonite
15			SAME AS ABOVE ; 10YR 4/3 brown; trace to few fines Hole terminated at 15.5 feet.		1052 SV-4-15			0.0	15	<ul style="list-style-type: none"> Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack

PROJECT: **Dedeaux - San Bernardino**
 LOCATION: **5770 Industrial Pkwy, San Bernardino, CA**
 PROJECT NUMBER: **185805145**

WELL / PROBEHOLE / BOREHOLE NO:



SV-5 PAGE 1 OF 1

DRILLING: STARTED **5/24/21** COMPLETED: **5/24/21**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **M&R Drilling**
 DRILLING EQUIPMENT: **6620DT**
 DRILLING METHOD: **DPT**
 SAMPLING EQUIPMENT: **Acetate**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **15.5**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2.25**
 LOGGED BY: **MFB** CHECKED BY: **AJ**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID Method	Measured Recovery (ft.)	Blow Count	PID Reading (ppmv)	Depth (feet)	Borehole Backfill
0 - 1.5			POORLY GRADED SAND AND GRAVEL WITH SILT ; fine to coarse-grained; dry; no odor; no staining; minor asphalt and concrete debris							
1.5 - 3.5		SP	POORLY GRADED SAND ; SP; 10YR 3/3 dark brown; fine to coarse-grained; moist; no odor; no staining; few gravel; few fines		1210 SV-5-1 6010					
3.5 - 4.5		SP	POORLY GRADED SAND ; SP; 10YR 5/3 brown; fine to coarse-grained; moist; no odor; no staining; few gravel; trace to few fines @4' - 3" fine to medium gravel layer		1215 SV-5-3					x2 1/4" Nylaflo Tubing in Hydrated Granular Bentonite
4.5 - 9.0			SAME AS ABOVE ; 10YR 4/4 dark yellowish brown @9' - 5" gravel layer		--			0.0	5	Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack
9.0 - 13.5			SAME AS ABOVE ; medium to coarse-grained; few fine sand		--			0.0	10	1/4" Nylaflo Tubing in Hydrated Granular Bentonite
13.5 - 15.5			SAME AS ABOVE ; few to little silt		--			0.0	15	Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack
Hole terminated at 15.5 feet.										

PROJECT: **Dedeaux - San Bernardino**
 LOCATION: **5770 Industrial Pkwy, San Bernardino, CA**
 PROJECT NUMBER: **185805145**

WELL / PROBEHOLE / BOREHOLE NO:



SV-6 PAGE 1 OF 1

DRILLING: STARTED **5/24/21** COMPLETED: **5/24/21**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **M&R Drilling**
 DRILLING EQUIPMENT: **6620DT**
 DRILLING METHOD: **DPT**
 SAMPLING EQUIPMENT: **Acetate**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **15.5**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2.25**
 LOGGED BY: **MFB** CHECKED BY: **AJ**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID Method	Measured Recovery (ft.)	Blow Count	PID Reading (ppmv)	Depth (feet)	Borehole Backfill
0 - 1.5			POORLY GRADED SAND AND GRAVEL WITH SILT ; fine to coarse-grained; dry; no odor; no staining; minor asphalt and concrete debris							
1.5 - 5.0		SP	POORLY GRADED SAND ; SP; 10YR 3/3 dark brown; fine to coarse-grained; moist; no odor; no staining; few gravel; few fines		1258 SV-6-1 6010					
5.0 - 9.0		SP	POORLY GRADED SAND ; SP; 10YR 5/3 brown; fine to coarse-grained; moist; no odor; no staining; few gravel; trace to few fines SAME AS ABOVE ; 10YR 3/3 dark brown; slightly moist; no odor; no staining; few silt fines; trace to few gravel		1303 SV-6-3			0.0	5	x2 1/4" Nylaflo Tubing in Hydrated Granular Bentonite Dry Granular Bentonite
9.0 - 10.0			SAME AS ABOVE ; 10YR 4/4 dark yellowish brown		--			0.0	5	1" Airstone in #3 Sand Filter Pack
10.0 - 15.5			@9' - 5" gravel layer SAME AS ABOVE ; medium to coarse-grained; few fine sand SAME AS ABOVE ; few to little silt		--			0.0	10	1/4" Nylaflo Tubing in Hydrated Granular Bentonite Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack
15.5			Hole terminated at 15.5 feet.							

GEO FORM 304 20210524_LOGS.GPJ STANTEC001.GDT 5/24/21

PROJECT: **Dedeaux - San Bernardino**
 LOCATION: **5770 Industrial Pkwy, San Bernardino, CA**
 PROJECT NUMBER: **185805145**

WELL / PROBEHOLE / BOREHOLE NO:

SV-7 PAGE 1 OF 1



DRILLING: STARTED **5/24/21** COMPLETED: **5/24/21**
 INSTALLATION: STARTED COMPLETED:
 DRILLING COMPANY: **M&R Drilling**
 DRILLING EQUIPMENT: **6620DT**
 DRILLING METHOD: **DPT**
 SAMPLING EQUIPMENT: **Acetate**

NORTHING (ft): EASTING (ft):
 LATITUDE: LONGITUDE:
 GROUND ELEV (ft): TOC ELEV (ft):
 INITIAL DTW (ft): **NE** BOREHOLE DEPTH (ft): **15.5**
 STATIC DTW (ft): **NE** WELL DEPTH (ft): ---
 WELL CASING DIAMETER (in): --- BOREHOLE DIAMETER (in): **2.25**
 LOGGED BY: **MFB** CHECKED BY: **AJ**

Time & Depth (feet)	Graphic Log	USCS	Description	Sample	Time Sample ID	Measured Recovery (ft.)	Blow Count	PID Reading (ppmv)	Depth (feet)	Borehole Backfill
0 - 1.5			POORLY GRADED SAND AND GRAVEL WITH SILT ; fine to coarse-grained; dry; no odor; no staining; minor asphalt and concrete debris							
1.5 - 3.5		SP	POORLY GRADED SAND ; SP; 10YR 3/3 dark brown; fine to coarse-grained; moist; no odor; no staining; few gravel; few fines							
3.5 - 5.5		SP	POORLY GRADED SAND ; SP; 10YR 5/3 brown; fine to coarse-grained; moist; no odor; no staining; few gravel; trace to few fines SAME AS ABOVE ; 10YR 3/3 dark brown; slightly moist; no odor; no staining; few silt fines; trace to few gravel		--			0.0	5	x2 1/4" Nylaflo Tubing in Hydrated Granular Bentonite Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack
5.5 - 10.5			SAME AS ABOVE ; 10YR 4/4 dark yellowish brown							
10.5 - 15.5		SP	POORLY GRADED SAND AND GRAVEL ; SP; 10YR 5/2 grayish brown; medium to coarse-grained; slightly moist; no odor; no staining; some poorly graded gravel; few fine sand; trace to few silt fines		--			0.0	10	1/4" Nylaflo Tubing in Hydrated Granular Bentonite
15.5		SP	POORLY GRADED SAND ; SP; 10YR 5/3 brown; medium to coarse-grained; slightly moist; few fine sand							
15.5			SAME AS ABOVE ; few to little silt		--			0.0	15	Dry Granular Bentonite 1" Airstone in #3 Sand Filter Pack
15.5			Hole terminated at 15.5 feet.							

APPENDIX B

Laboratory Data Sheets





June 03, 2021

Alicia Jansen
Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408
Tel: (909) 335-6116
Fax:(909) 335-6120

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 2101181
Client Reference : 185805145, Dedeaux - SBD

Enclosed are the results for sample(s) received on May 25, 2021 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Amy Leung", with a small "for" written below it.

Amy Leung
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

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www.atlglobal.com*



Certificate of Analysis

Stantec

735 E. Carnegie Drive, Suite 280

San Bernardino, CA 92408

Project Number : 185805145, Dedeaux - SBD

Report To : Alicia Jansen

Reported : 06/03/2021

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-1-15	2101181-03	Soil	5/24/21 8:44	5/25/21 12:08
SV-2-15	2101181-06	Soil	5/24/21 9:38	5/25/21 12:08
SV-3-10	2101181-08	Soil	5/24/21 10:06	5/25/21 12:08
SV-4-10	2101181-11	Soil	5/24/21 10:48	5/25/21 12:08
SB-1-1	2101181-13	Soil	5/24/21 11:14	5/25/21 12:08
SB-2-1	2101181-15	Soil	5/24/21 11:31	5/25/21 12:08
SV-5-1	2101181-17	Soil	5/24/21 12:10	5/25/21 12:08
SV-6-1	2101181-19	Soil	5/24/21 12:58	5/25/21 12:08



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Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408

Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

Client Sample ID: SV-1-15
Lab ID: 2101181-03

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: Kur

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B1E0501	05/29/2021	05/29/21 00:43	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>106 %</i>	<i>47.6 - 121.18</i>		B1E0501	05/29/2021	<i>05/29/21 00:43</i>	

Diesel Range Organics by EPA 8015B

Analyst: manager

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.1	1.0	1	B1E0475	05/28/2021	06/01/21 13:42	
ORO	4.1	1.0	1	B1E0475	05/28/2021	06/01/21 13:42	
<i>Surrogate: p-Terphenyl</i>	<i>50.3 %</i>	<i>15 - 110</i>		B1E0475	05/28/2021	<i>06/01/21 13:42</i>	

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,1,1-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,1,2-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,1-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,1-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,1-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2,3-Trichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2,3-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2,4-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2,4-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2-Dibromo-3-chloropropane	ND	10	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2-Dibromoethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,3,5-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,3-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,3-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
1,4-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
2,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-1-15
Lab ID: 2101181-03

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
4-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
4-Isopropyltoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Benzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Bromobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Bromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Bromodichloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Bromoform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Bromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Carbon disulfide	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Carbon tetrachloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Chlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Chloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Chloroform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Chloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
cis-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
cis-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Di-isopropyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Dibromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Dibromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Dichlorodifluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Ethyl Acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 20:41	
Ethyl Ether	ND	50	1	B1E0457	05/27/2021	05/27/21 20:41	
Ethyl tert-butyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Ethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Freon-113	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Hexachlorobutadiene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Isopropylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
m,p-Xylene	ND	10	1	B1E0457	05/27/2021	05/27/21 20:41	
Methylene chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
MTBE	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
n-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
n-Propylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Naphthalene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
o-Xylene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
sec-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	



Certificate of Analysis

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 San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-1-15
Lab ID: 2101181-03

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Styrene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
tert-Amyl methyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
tert-Butanol	ND	100	1	B1E0457	05/27/2021	05/27/21 20:41	
tert-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Tetrachloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Toluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
trans-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
trans-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Trichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Trichlorofluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
Vinyl acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 20:41	
Vinyl chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 20:41	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>127 %</i>	<i>66 - 200</i>		B1E0457	05/27/2021	<i>05/27/21 20:41</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>50 - 146</i>		B1E0457	05/27/2021	<i>05/27/21 20:41</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>116 %</i>	<i>77 - 159</i>		B1E0457	05/27/2021	<i>05/27/21 20:41</i>	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	<i>81 - 128</i>		B1E0457	05/27/2021	<i>05/27/21 20:41</i>	



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Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

Client Sample ID: SV-2-15
Lab ID: 2101181-06

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: Kur

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B1E0501	05/29/2021	05/29/21 01:06	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>	<i>47.6 - 121.18</i>		B1E0501	05/29/2021	<i>05/29/21 01:06</i>	

Diesel Range Organics by EPA 8015B

Analyst: manager

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.8	1.0	1	B1E0475	05/28/2021	06/01/21 13:59	
ORO	6.6	1.0	1	B1E0475	05/28/2021	06/01/21 13:59	
<i>Surrogate: p-Terphenyl</i>	<i>46.4 %</i>	<i>15 - 110</i>		B1E0475	05/28/2021	<i>06/01/21 13:59</i>	

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,1,1-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,1,2-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,1-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,1-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,1-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2,3-Trichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2,3-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2,4-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2,4-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2-Dibromo-3-chloropropane	ND	10	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2-Dibromoethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,3,5-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,3-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,3-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
1,4-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
2,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	



Certificate of Analysis

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 735 E. Carnegie Drive, Suite 280
 San Bernardino, CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-2-15
Lab ID: 2101181-06

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
4-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
4-Isopropyltoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Benzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Bromobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Bromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Bromodichloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Bromoform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Bromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Carbon disulfide	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Carbon tetrachloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Chlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Chloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Chloroform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Chloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
cis-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
cis-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Di-isopropyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Dibromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Dibromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Dichlorodifluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Ethyl Acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 21:07	
Ethyl Ether	ND	50	1	B1E0457	05/27/2021	05/27/21 21:07	
Ethyl tert-butyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Ethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Freon-113	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Hexachlorobutadiene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Isopropylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
m,p-Xylene	ND	10	1	B1E0457	05/27/2021	05/27/21 21:07	
Methylene chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
MTBE	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
n-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
n-Propylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Naphthalene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
o-Xylene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
sec-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-2-15
Lab ID: 2101181-06

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Styrene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
tert-Amyl methyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
tert-Butanol	ND	100	1	B1E0457	05/27/2021	05/27/21 21:07	
tert-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Tetrachloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Toluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
trans-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
trans-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Trichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Trichlorofluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
Vinyl acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 21:07	
Vinyl chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:07	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>112 %</i>	<i>66 - 200</i>		B1E0457	05/27/2021	05/27/21 21:07	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>101 %</i>	<i>50 - 146</i>		B1E0457	05/27/2021	05/27/21 21:07	
<i>Surrogate: Dibromofluoromethane</i>	<i>107 %</i>	<i>77 - 159</i>		B1E0457	05/27/2021	05/27/21 21:07	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	<i>81 - 128</i>		B1E0457	05/27/2021	05/27/21 21:07	



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-3-10
Lab ID: 2101181-08

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: Kur

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B1E0501	05/29/2021	05/29/21 01:29	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>104 %</i>	<i>47.6 - 121.18</i>		B1E0501	05/29/2021	<i>05/29/21 01:29</i>	

Diesel Range Organics by EPA 8015B

Analyst: manager

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.1	1.0	1	B1F0038	06/02/2021	06/02/21 18:17	
ORO	5.1	1.0	1	B1F0038	06/02/2021	06/02/21 18:17	
<i>Surrogate: p-Terphenyl</i>	<i>58.3 %</i>	<i>15 - 110</i>		B1F0038	06/02/2021	<i>06/02/21 18:17</i>	

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,1,1-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,1,2-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,1-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,1-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,1-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2,3-Trichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2,3-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2,4-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2,4-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2-Dibromo-3-chloropropane	ND	10	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2-Dibromoethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,3,5-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,3-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,3-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
1,4-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
2,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD

Report To : Alicia Jansen

Reported : 06/03/2021

Client Sample ID: SV-3-10

Lab ID: 2101181-08

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
4-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
4-Isopropyltoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Benzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Bromobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Bromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Bromodichloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Bromoform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Bromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Carbon disulfide	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Carbon tetrachloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Chlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Chloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Chloroform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Chloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
cis-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
cis-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Di-isopropyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Dibromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Dibromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Dichlorodifluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Ethyl Acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 21:33	
Ethyl Ether	ND	50	1	B1E0457	05/27/2021	05/27/21 21:33	
Ethyl tert-butyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Ethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Freon-113	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Hexachlorobutadiene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Isopropylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
m,p-Xylene	ND	10	1	B1E0457	05/27/2021	05/27/21 21:33	
Methylene chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
MTBE	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
n-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
n-Propylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Naphthalene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
o-Xylene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
sec-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	



Certificate of Analysis

Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408

Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

Client Sample ID: SV-3-10
Lab ID: 2101181-08

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Styrene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
tert-Amyl methyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
tert-Butanol	ND	100	1	B1E0457	05/27/2021	05/27/21 21:33	
tert-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Tetrachloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Toluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
trans-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
trans-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Trichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Trichlorofluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
Vinyl acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 21:33	
Vinyl chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 21:33	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>123 %</i>	<i>66 - 200</i>		B1E0457	05/27/2021	<i>05/27/21 21:33</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>50 - 146</i>		B1E0457	05/27/2021	<i>05/27/21 21:33</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>101 %</i>	<i>77 - 159</i>		B1E0457	05/27/2021	<i>05/27/21 21:33</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>81 - 128</i>		B1E0457	05/27/2021	<i>05/27/21 21:33</i>	



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 735 E. Carnegie Drive, Suite 280
 San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-4-10
Lab ID: 2101181-11

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: Kur

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B1E0501	05/29/2021	05/29/21 01:52	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>105 %</i>	<i>47.6 - 121.18</i>		B1E0501	05/29/2021	05/29/21 01:52	

Diesel Range Organics by EPA 8015B

Analyst: manager

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	1.0	1	B1E0475	05/28/2021	06/01/21 14:35	
ORO	2.8	1.0	1	B1E0475	05/28/2021	06/01/21 14:35	
<i>Surrogate: p-Terphenyl</i>	<i>44.1 %</i>	<i>15 - 110</i>		B1E0475	05/28/2021	06/01/21 14:35	

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,1,1-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,1,2-Trichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,1-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,1-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,1-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2,3-Trichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2,3-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2,4-Trichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2,4-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2-Dibromo-3-chloropropane	ND	10	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2-Dibromoethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2-Dichloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,3,5-Trimethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,3-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,3-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
1,4-Dichlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
2,2-Dichloropropane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-4-10
Lab ID: 2101181-11

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
4-Chlorotoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
4-Isopropyltoluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Benzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Bromobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Bromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Bromodichloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Bromoform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Bromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Carbon disulfide	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Carbon tetrachloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Chlorobenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Chloroethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Chloroform	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Chloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
cis-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
cis-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Di-isopropyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Dibromochloromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Dibromomethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Dichlorodifluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Ethyl Acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 22:00	
Ethyl Ether	ND	50	1	B1E0457	05/27/2021	05/27/21 22:00	
Ethyl tert-butyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Ethylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Freon-113	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Hexachlorobutadiene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Isopropylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
m,p-Xylene	ND	10	1	B1E0457	05/27/2021	05/27/21 22:00	
Methylene chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
MTBE	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
n-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
n-Propylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Naphthalene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
o-Xylene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
sec-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino, CA 92408

Project Number : 185805145, Dedeaux - SBD
 Report To : Alicia Jansen
 Reported : 06/03/2021

Client Sample ID: SV-4-10
Lab ID: 2101181-11

Volatile Organic Compounds by EPA 8260B

Analyst: TM

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Styrene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
tert-Amyl methyl ether	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
tert-Butanol	ND	100	1	B1E0457	05/27/2021	05/27/21 22:00	
tert-Butylbenzene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Tetrachloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Toluene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
trans-1,2-Dichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
trans-1,3-Dichloropropene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Trichloroethene	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Trichlorofluoromethane	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
Vinyl acetate	ND	50	1	B1E0457	05/27/2021	05/27/21 22:00	
Vinyl chloride	ND	5.0	1	B1E0457	05/27/2021	05/27/21 22:00	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>140 %</i>	<i>66 - 200</i>		B1E0457	05/27/2021	<i>05/27/21 22:00</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>97.8 %</i>	<i>50 - 146</i>		B1E0457	05/27/2021	<i>05/27/21 22:00</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>104 %</i>	<i>77 - 159</i>		B1E0457	05/27/2021	<i>05/27/21 22:00</i>	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	<i>81 - 128</i>		B1E0457	05/27/2021	<i>05/27/21 22:00</i>	



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San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD

Report To : Alicia Jansen

Reported : 06/03/2021

Client Sample ID: SB-1-1

Lab ID: 2101181-13

Total Metals by ICP-AES EPA 6010B

Analyst: AMP

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B1E0443	05/26/2021	05/27/21 11:11	
Lead	2.5	1.0	1	B1E0443	05/26/2021	05/27/21 11:11	



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Project Number : 185805145, Dedeaux - SBD

Report To : Alicia Jansen

Reported : 06/03/2021

Client Sample ID: SB-2-1

Lab ID: 2101181-15

Total Metals by ICP-AES EPA 6010B

Analyst: AMP

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B1E0443	05/26/2021	05/27/21 11:14	
Lead	13	1.0	1	B1E0443	05/26/2021	05/27/21 11:14	



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Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

Client Sample ID: SV-5-1

Lab ID: 2101181-17

Total Metals by ICP-AES EPA 6010B

Analyst: AMP

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B1E0443	05/26/2021	05/27/21 11:15	
Lead	11	1.0	1	B1E0443	05/26/2021	05/27/21 11:15	



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Reported : 06/03/2021

Client Sample ID: SV-6-1

Lab ID: 2101181-19

Total Metals by ICP-AES EPA 6010B

Analyst: AMP

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B1E0443	05/26/2021	05/27/21 11:17	
Lead	4.3	1.0	1	B1E0443	05/26/2021	05/27/21 11:17	



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Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B1E0443 - EPA 3050B_S										
Blank (B1E0443-BLK1)					Prepared: 5/26/2021 Analyzed: 5/26/2021					
Arsenic	ND	1.0	0.12							
Lead	ND	1.0	0.18							
LCS (B1E0443-BS1)					Prepared: 5/26/2021 Analyzed: 5/26/2021					
Arsenic	26.2514	1.0	0.12	25.0000		105	80 - 120			
Lead	26.4806	1.0	0.18	25.0000		106	80 - 120			
Matrix Spike (B1E0443-MS1)					Source: 2101183-01		Prepared: 5/26/2021 Analyzed: 5/26/2021			
Arsenic	28.6008	1.0	0.12	25.0000	3.44782	101	55 - 117			
Lead	27.5372	1.0	0.18	25.0000	3.48412	96.2	26 - 161			
Matrix Spike Dup (B1E0443-MSD1)					Source: 2101183-01		Prepared: 5/26/2021 Analyzed: 5/26/2021			
Arsenic	27.5171	1.0	0.12	25.0000	3.44782	96.3	55 - 117	3.86	20	
Lead	26.6843	1.0	0.18	25.0000	3.48412	92.8	26 - 161	3.15	20	



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Project Number : 185805145, Dedeaux - SBD
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Reported : 06/03/2021

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B1E0501 - GCVOA_S										
Blank (B1E0501-BLK1)					Prepared: 5/28/2021 Analyzed: 5/28/2021					
Gasoline Range Organics	ND	1.0	0.20							
<i>Surrogate: 4-Bromofluorobenzene</i>	0.8020			0.800000		100	47.6 - 121.18			
LCS (B1E0501-BS1)					Prepared: 5/28/2021 Analyzed: 5/28/2021					
Gasoline Range Organics	5.85500	1.0	0.20	5.00000		117	58.69 - 124.04			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.9335			0.800000		117	47.6 - 121.18			
LCS Dup (B1E0501-BSD1)					Prepared: 5/28/2021 Analyzed: 5/28/2021					
Gasoline Range Organics	5.15300	1.0	0.20	5.00000		103	58.69 - 124.04	12.8	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.8836			0.800000		110	47.6 - 121.18			
Matrix Spike (B1E0501-MS1)					Source: 2101205-02		Prepared: 5/28/2021 Analyzed: 5/28/2021			
Gasoline Range Organics	5.38400	1.0	0.20	5.00000	ND	108	37.92 - 128.32			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.9534			0.800000		119	47.6 - 121.18			
Matrix Spike Dup (B1E0501-MSD1)					Source: 2101205-02		Prepared: 5/28/2021 Analyzed: 5/28/2021			
Gasoline Range Organics	4.79100	1.0	0.20	5.00000	ND	95.8	37.92 - 128.32	11.7	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.9319			0.800000		116	47.6 - 121.18			



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Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B1E0475 - GCSEMI_DRO_LL_S										
Blank (B1E0475-BLK1)					Prepared: 5/28/2021 Analyzed: 6/1/2021					
DRO	ND	1.0	0.53							
ORO	ND	1.0	0.53							
<i>Surrogate: p-Terphenyl</i>	1.044			2.66667		39.2	15 - 110			
Blank (B1E0475-BLK2)					Prepared: 5/28/2021 Analyzed: 6/2/2021					
DRO	ND	1.0	0.53							
ORO	ND	1.0	0.53							
<i>Surrogate: p-Terphenyl</i>	1.328			2.66667		49.8	15 - 110			
LCS (B1E0475-BS1)					Prepared: 5/28/2021 Analyzed: 6/1/2021					
DRO	13.1670	1.0	0.53	33.3333		39.5	30 - 116			
<i>Surrogate: p-Terphenyl</i>	1.293			2.66667		48.5	15 - 110			
LCS (B1E0475-BS2)					Prepared: 5/28/2021 Analyzed: 6/2/2021					
DRO	14.4953	1.0	0.53	33.3333		43.5	30 - 116			
<i>Surrogate: p-Terphenyl</i>	1.632			2.66667		61.2	15 - 110			
Matrix Spike (B1E0475-MS1)					Source: 2101181-03		Prepared: 5/28/2021 Analyzed: 6/1/2021			
DRO	28.8327	1.0	0.53	33.3333	2.13967	80.1	0 - 120			
<i>Surrogate: p-Terphenyl</i>	1.820			2.66667		68.2	15 - 110			
Matrix Spike Dup (B1E0475-MSD1)					Source: 2101181-03		Prepared: 5/28/2021 Analyzed: 6/1/2021			
DRO	24.1593	1.0	0.53	33.3333	2.13967	66.1	0 - 120	17.6	20	
<i>Surrogate: p-Terphenyl</i>	1.478			2.66667		55.4	15 - 110			



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B1F0038 - GCSEMI_DRO_LL_S										
Blank (B1F0038-BLK1)					Prepared: 6/2/2021 Analyzed: 6/2/2021					
DRO	ND	1.0	0.53							
ORO	ND	1.0	0.53							
<i>Surrogate: p-Terphenyl</i>	1.583			2.66667		59.4	15 - 110			
LCS (B1F0038-BS1)					Prepared: 6/2/2021 Analyzed: 6/2/2021					
DRO	13.1133	1.0	0.53	33.3333		39.3	30 - 116			
<i>Surrogate: p-Terphenyl</i>	1.074			2.66667		40.3	15 - 110			
Matrix Spike (B1F0038-MS1)					Source: 2101181-08		Prepared: 6/2/2021 Analyzed: 6/2/2021			
DRO	24.7910	1.0	0.53	33.3333	5.06900	59.2	0 - 120			
<i>Surrogate: p-Terphenyl</i>	1.577			2.66667		59.1	15 - 110			
Matrix Spike Dup (B1F0038-MSD1)					Source: 2101181-08		Prepared: 6/2/2021 Analyzed: 6/2/2021			
DRO	14.3500	1.0	0.53	33.3333	5.06900	27.8	0 - 120	53.4	20	R
<i>Surrogate: p-Terphenyl</i>	1.140			2.66667		42.7	15 - 110			



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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S

Blank (B1E0457-BLK1)

Prepared: 5/27/2021 Analyzed: 5/27/2021

1,1,1,2-Tetrachloroethane	ND	5.0	0.52							
1,1,1-Trichloroethane	ND	5.0	0.26							
1,1,2,2-Tetrachloroethane	ND	5.0	0.21							
1,1,2-Trichloroethane	ND	5.0	0.40							
1,1-Dichloroethane	ND	5.0	1.4							
1,1-Dichloroethene	ND	5.0	1.9							
1,1-Dichloropropene	ND	5.0	0.54							
1,2,3-Trichloropropane	ND	5.0	0.40							
1,2,3-Trichlorobenzene	ND	5.0	0.83							
1,2,4-Trichlorobenzene	ND	5.0	0.80							
1,2,4-Trimethylbenzene	ND	5.0	0.91							
1,2-Dibromo-3-chloropropane	ND	10	1.1							
1,2-Dibromoethane	ND	5.0	0.40							
1,2-Dichlorobenzene	ND	5.0	0.21							
1,2-Dichloroethane	ND	5.0	0.50							
1,2-Dichloropropane	ND	5.0	0.46							
1,3,5-Trimethylbenzene	ND	5.0	0.70							
1,3-Dichlorobenzene	ND	5.0	0.36							
1,3-Dichloropropane	ND	5.0	0.49							
1,4-Dichlorobenzene	ND	5.0	0.27							
2,2-Dichloropropane	ND	5.0	0.28							
2-Chlorotoluene	ND	5.0	0.53							
4-Chlorotoluene	ND	5.0	0.40							
4-Isopropyltoluene	ND	5.0	0.81							
Benzene	ND	5.0	0.36							
Bromobenzene	ND	5.0	0.62							
Bromochloromethane	ND	5.0	0.30							
Bromodichloromethane	ND	5.0	0.52							
Bromoform	ND	5.0	1.4							
Bromomethane	ND	5.0	2.5							
Carbon disulfide	ND	5.0	0.94							
Carbon tetrachloride	ND	5.0	0.73							
Chlorobenzene	ND	5.0	0.42							
Chloroethane	ND	5.0	1.5							
Chloroform	ND	5.0	0.24							
Chloromethane	ND	5.0	1.1							
cis-1,2-Dichloroethene	ND	5.0	0.20							
cis-1,3-Dichloropropene	ND	5.0	0.39							
Di-isopropyl ether	ND	5.0	1.9							
Dibromochloromethane	ND	5.0	0.81							



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Project Number : 185805145, Dedeaux - SBD
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Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S (continued)

Blank (B1E0457-BLK1) - Continued

Prepared: 5/27/2021 Analyzed: 5/27/2021

Dibromomethane	ND	5.0	0.23						
Dichlorodifluoromethane	ND	5.0	0.14						
Ethyl Acetate	ND	50	7.0						
Ethyl Ether	ND	50	17						
Ethyl tert-butyl ether	ND	5.0	0.85						
Ethylbenzene	ND	5.0	0.43						
Freon-113	ND	5.0	1.3						
Hexachlorobutadiene	ND	5.0	0.40						
Isopropylbenzene	ND	5.0	0.79						
m,p-Xylene	ND	10	0.98						
Methylene chloride	ND	5.0	2.2						
MTBE	ND	5.0	0.81						
n-Butylbenzene	ND	5.0	1.2						
n-Propylbenzene	ND	5.0	0.78						
Naphthalene	ND	5.0	1.1						
o-Xylene	ND	5.0	0.67						
sec-Butylbenzene	ND	5.0	0.63						
Styrene	ND	5.0	0.45						
tert-Amyl methyl ether	ND	5.0	1.1						
tert-Butanol	ND	100	11						
tert-Butylbenzene	ND	5.0	0.80						
Tetrachloroethene	ND	5.0	0.31						
Toluene	ND	5.0	0.27						
trans-1,2-Dichloroethene	ND	5.0	0.56						
trans-1,3-Dichloropropene	ND	5.0	0.59						
Trichloroethene	ND	5.0	0.32						
Trichlorofluoromethane	ND	5.0	1.0						
Vinyl acetate	ND	50	6.0						
Vinyl chloride	ND	5.0	0.92						

<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.58		50.0000		107	66 - 200
<i>Surrogate: 4-Bromofluorobenzene</i>	49.68		50.0000		99.4	50 - 146
<i>Surrogate: Dibromofluoromethane</i>	51.19		50.0000		102	77 - 159
<i>Surrogate: Toluene-d8</i>	50.38		50.0000		101	81 - 128

LCS (B1E0457-BS1)

Prepared: 5/27/2021 Analyzed: 5/27/2021

1,1,1,2-Tetrachloroethane	54.2900	5.0	0.52	50.0000	109	84 - 123
1,1,1-Trichloroethane	51.3400	5.0	0.26	50.0000	103	78 - 133
1,1,2,2-Tetrachloroethane	52.0100	5.0	0.21	50.0000	104	63 - 127
1,1,2-Trichloroethane	54.7100	5.0	0.40	50.0000	109	80 - 125
1,1-Dichloroethane	55.9300	5.0	1.4	50.0000	112	77 - 128



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S (continued)

LCS (B1E0457-BS1) - Continued

Prepared: 5/27/2021 Analyzed: 5/27/2021

1,1-Dichloroethene	55.6800	5.0	1.9	50.0000		111	69 - 138			
1,1-Dichloropropene	48.0700	5.0	0.54	50.0000		96.1	80 - 133			
1,2,3-Trichloropropane	51.1600	5.0	0.40	50.0000		102	74 - 123			
1,2,3-Trichlorobenzene	47.6400	5.0	0.83	50.0000		95.3	79 - 133			
1,2,4-Trichlorobenzene	47.3400	5.0	0.80	50.0000		94.7	73 - 131			
1,2,4-Trimethylbenzene	50.7500	5.0	0.91	50.0000		102	86 - 137			
1,2-Dibromo-3-chloropropane	44.1000	10	1.1	50.0000		88.2	62 - 127			
1,2-Dibromoethane	52.7600	5.0	0.40	50.0000		106	83 - 126			
1,2-Dichlorobenzene	48.4700	5.0	0.21	50.0000		96.9	83 - 123			
1,2-Dichloroethane	52.0600	5.0	0.50	50.0000		104	76 - 128			
1,2-Dichloropropane	49.5800	5.0	0.46	50.0000		99.2	77 - 121			
1,3,5-Trimethylbenzene	51.7100	5.0	0.70	50.0000		103	84 - 135			
1,3-Dichlorobenzene	50.0700	5.0	0.36	50.0000		100	81 - 126			
1,3-Dichloropropane	53.4400	5.0	0.49	50.0000		107	80 - 118			
1,4-Dichlorobenzene	50.9600	5.0	0.27	50.0000		102	80 - 124			
2,2-Dichloropropane	52.0800	5.0	0.28	50.0000		104	72 - 135			
2-Chlorotoluene	52.3500	5.0	0.53	50.0000		105	81 - 127			
4-Chlorotoluene	50.3500	5.0	0.40	50.0000		101	83 - 127			
4-Isopropyltoluene	52.6800	5.0	0.81	50.0000		105	82 - 143			
Benzene	50.3900	5.0	0.36	50.0000		101	84 - 123			
Bromobenzene	48.0900	5.0	0.62	50.0000		96.2	80 - 122			
Bromochloromethane	48.4300	5.0	0.30	50.0000		96.9	83 - 127			
Bromodichloromethane	54.1400	5.0	0.52	50.0000		108	82 - 123			
Bromoform	51.1300	5.0	1.4	50.0000		102	80 - 132			
Bromomethane	46.4600	5.0	2.5	50.0000		92.9	67 - 176			
Carbon disulfide	48.6300	5.0	0.94	50.0000		97.3	75 - 138			
Carbon tetrachloride	51.7100	5.0	0.73	50.0000		103	76 - 131			
Chlorobenzene	52.5200	5.0	0.42	50.0000		105	84 - 119			
Chloroethane	58.3200	5.0	1.5	50.0000		117	56 - 170			
Chloroform	52.9700	5.0	0.24	50.0000		106	78 - 129			
Chloromethane	51.3400	5.0	1.1	50.0000		103	63 - 141			
cis-1,2-Dichloroethene	53.2500	5.0	0.20	50.0000		106	83 - 125			
cis-1,3-Dichloropropene	52.0500	5.0	0.39	50.0000		104	76 - 129			
Di-isopropyl ether	54.3700	5.0	1.9	50.0000		109	73 - 132			
Dibromochloromethane	51.1200	5.0	0.81	50.0000		102	81 - 120			
Dibromomethane	47.6700	5.0	0.23	50.0000		95.3	79 - 124			
Dichlorodifluoromethane	41.8000	5.0	0.14	50.0000		83.6	18 - 199			
Ethyl Acetate	538.990	50	7.0	500.000		108	76 - 138			
Ethyl Ether	542.190	50	17	500.000		108	74 - 128			
Ethyl tert-butyl ether	55.8300	5.0	0.85	50.0000		112	50 - 175			



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Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S (continued)

LCS (B1E0457-BS1) - Continued

Prepared: 5/27/2021 Analyzed: 5/27/2021

Ethylbenzene	53.8500	5.0	0.43	50.0000		108	86 - 130			
Freon-113	51.2600	5.0	1.3	50.0000		103	66 - 132			
Hexachlorobutadiene	47.4300	5.0	0.40	50.0000		94.9	64 - 135			
Isopropylbenzene	51.3000	5.0	0.79	50.0000		103	80 - 133			
m,p-Xylene	104.920	10	0.98	100.000		105	89 - 133			
Methylene chloride	50.8500	5.0	2.2	50.0000		102	72 - 143			
MTBE	51.9200	5.0	0.81	50.0000		104	73 - 136			
n-Butylbenzene	51.1700	5.0	1.2	50.0000		102	76 - 144			
n-Propylbenzene	51.9300	5.0	0.78	50.0000		104	81 - 136			
Naphthalene	47.1900	5.0	1.1	50.0000		94.4	64 - 128			
o-Xylene	54.6300	5.0	0.67	50.0000		109	82 - 134			
sec-Butylbenzene	52.9700	5.0	0.63	50.0000		106	81 - 138			
Styrene	54.6500	5.0	0.45	50.0000		109	79 - 152			
tert-Amyl methyl ether	54.1200	5.0	1.1	50.0000		108	48 - 166			
tert-Butanol	265.440	100	11	250.000		106	48 - 148			
tert-Butylbenzene	51.0500	5.0	0.80	50.0000		102	81 - 135			
Tetrachloroethene	53.0800	5.0	0.31	50.0000		106	75 - 127			
Toluene	54.1100	5.0	0.27	50.0000		108	88 - 130			
trans-1,2-Dichloroethene	58.3400	5.0	0.56	50.0000		117	79 - 127			
trans-1,3-Dichloropropene	54.1300	5.0	0.59	50.0000		108	80 - 130			
Trichloroethene	48.6400	5.0	0.32	50.0000		97.3	83 - 126			
Trichlorofluoromethane	55.0400	5.0	1.0	50.0000		110	62 - 143			
Vinyl acetate	572.050	50	6.0	500.000		114	69 - 150			
Vinyl chloride	52.0200	5.0	0.92	50.0000		104	69 - 140			
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.83</i>			<i>50.0000</i>		<i>95.7</i>	<i>66 - 200</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.28</i>			<i>50.0000</i>		<i>101</i>	<i>50 - 146</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.76</i>			<i>50.0000</i>		<i>104</i>	<i>77 - 159</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.63</i>			<i>50.0000</i>		<i>95.3</i>	<i>81 - 128</i>			

LCS Dup (B1E0457-BSD1)

Prepared: 5/27/2021 Analyzed: 5/27/2021

1,1,1,2-Tetrachloroethane	52.1800	5.0	0.52	50.0000		104	84 - 123	3.96	20	
1,1,1-Trichloroethane	49.3700	5.0	0.26	50.0000		98.7	78 - 133	3.91	20	
1,1,2,2-Tetrachloroethane	49.4200	5.0	0.21	50.0000		98.8	63 - 127	5.11	20	
1,1,2-Trichloroethane	50.8700	5.0	0.40	50.0000		102	80 - 125	7.27	20	
1,1-Dichloroethane	53.8500	5.0	1.4	50.0000		108	77 - 128	3.79	20	
1,1-Dichloroethene	49.8200	5.0	1.9	50.0000		99.6	69 - 138	11.1	20	
1,1-Dichloropropene	48.4500	5.0	0.54	50.0000		96.9	80 - 133	0.787	20	
1,2,3-Trichloropropane	49.0500	5.0	0.40	50.0000		98.1	74 - 123	4.21	20	
1,2,3-Trichlorobenzene	46.6300	5.0	0.83	50.0000		93.3	79 - 133	2.14	20	
1,2,4-Trichlorobenzene	45.7900	5.0	0.80	50.0000		91.6	73 - 131	3.33	20	



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Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408

Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B1E0457 - MSVOA_S (continued)										
LCS Dup (B1E0457-BSD1) - Continued										
					Prepared: 5/27/2021 Analyzed: 5/27/2021					
1,2,4-Trimethylbenzene	46.8300	5.0	0.91	50.0000		93.7	86 - 137	8.03	20	
1,2-Dibromo-3-chloropropane	50.4600	10	1.1	50.0000		101	62 - 127	13.5	20	
1,2-Dibromoethane	51.4500	5.0	0.40	50.0000		103	83 - 126	2.51	20	
1,2-Dichlorobenzene	45.0500	5.0	0.21	50.0000		90.1	83 - 123	7.31	20	
1,2-Dichloroethane	51.7500	5.0	0.50	50.0000		104	76 - 128	0.597	20	
1,2-Dichloropropane	53.0100	5.0	0.46	50.0000		106	77 - 121	6.69	20	
1,3,5-Trimethylbenzene	47.0600	5.0	0.70	50.0000		94.1	84 - 135	9.42	20	
1,3-Dichlorobenzene	49.3900	5.0	0.36	50.0000		98.8	81 - 126	1.37	20	
1,3-Dichloropropane	49.9800	5.0	0.49	50.0000		100	80 - 118	6.69	20	
1,4-Dichlorobenzene	45.6300	5.0	0.27	50.0000		91.3	80 - 124	11.0	20	
2,2-Dichloropropane	48.2000	5.0	0.28	50.0000		96.4	72 - 135	7.74	20	
2-Chlorotoluene	47.0200	5.0	0.53	50.0000		94.0	81 - 127	10.7	20	
4-Chlorotoluene	47.0700	5.0	0.40	50.0000		94.1	83 - 127	6.73	20	
4-Isopropyltoluene	48.6600	5.0	0.81	50.0000		97.3	82 - 143	7.93	20	
Benzene	51.3900	5.0	0.36	50.0000		103	84 - 123	1.97	20	
Bromobenzene	45.6800	5.0	0.62	50.0000		91.4	80 - 122	5.14	20	
Bromochloromethane	50.1100	5.0	0.30	50.0000		100	83 - 127	3.41	20	
Bromodichloromethane	54.5100	5.0	0.52	50.0000		109	82 - 123	0.681	20	
Bromoform	45.1100	5.0	1.4	50.0000		90.2	80 - 132	12.5	20	
Bromomethane	49.6100	5.0	2.5	50.0000		99.2	67 - 176	6.56	20	
Carbon disulfide	51.6400	5.0	0.94	50.0000		103	75 - 138	6.00	20	
Carbon tetrachloride	50.3000	5.0	0.73	50.0000		101	76 - 131	2.76	20	
Chlorobenzene	48.3100	5.0	0.42	50.0000		96.6	84 - 119	8.35	20	
Chloroethane	57.7100	5.0	1.5	50.0000		115	56 - 170	1.05	20	
Chloroform	52.9400	5.0	0.24	50.0000		106	78 - 129	0.0567	20	
Chloromethane	51.4200	5.0	1.1	50.0000		103	63 - 141	0.156	20	
cis-1,2-Dichloroethene	54.9800	5.0	0.20	50.0000		110	83 - 125	3.20	20	
cis-1,3-Dichloropropene	52.9900	5.0	0.39	50.0000		106	76 - 129	1.79	20	
Di-isopropyl ether	53.0000	5.0	1.9	50.0000		106	73 - 132	2.55	20	
Dibromochloromethane	48.4900	5.0	0.81	50.0000		97.0	81 - 120	5.28	20	
Dibromomethane	48.8600	5.0	0.23	50.0000		97.7	79 - 124	2.47	20	
Dichlorodifluoromethane	41.3300	5.0	0.14	50.0000		82.7	18 - 199	1.13	20	
Ethyl Acetate	524.870	50	7.0	500.000		105	76 - 138	2.65	20	
Ethyl Ether	537.550	50	17	500.000		108	74 - 128	0.859	20	
Ethyl tert-butyl ether	52.3300	5.0	0.85	50.0000		105	50 - 175	6.47	20	
Ethylbenzene	50.3500	5.0	0.43	50.0000		101	86 - 130	6.72	20	
Freon-113	50.1500	5.0	1.3	50.0000		100	66 - 132	2.19	20	
Hexachlorobutadiene	50.5000	5.0	0.40	50.0000		101	64 - 135	6.27	20	
Isopropylbenzene	47.7800	5.0	0.79	50.0000		95.6	80 - 133	7.11	20	
m,p-Xylene	100.700	10	0.98	100.000		101	89 - 133	4.10	20	



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Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B1E0457 - MSVOA_S (continued)										
LCS Dup (B1E0457-BSD1) - Continued										
					Prepared: 5/27/2021 Analyzed: 5/27/2021					
Methylene chloride	47.7300	5.0	2.2	50.0000		95.5	72 - 143	6.33	20	
MTBE	50.5000	5.0	0.81	50.0000		101	73 - 136	2.77	20	
n-Butylbenzene	48.9900	5.0	1.2	50.0000		98.0	76 - 144	4.35	20	
n-Propylbenzene	47.9800	5.0	0.78	50.0000		96.0	81 - 136	7.91	20	
Naphthalene	47.3500	5.0	1.1	50.0000		94.7	64 - 128	0.338	20	
o-Xylene	49.9400	5.0	0.67	50.0000		99.9	82 - 134	8.97	20	
sec-Butylbenzene	48.2300	5.0	0.63	50.0000		96.5	81 - 138	9.37	20	
Styrene	49.7400	5.0	0.45	50.0000		99.5	79 - 152	9.41	20	
tert-Amyl methyl ether	51.7800	5.0	1.1	50.0000		104	48 - 166	4.42	20	
tert-Butanol	258.950	100	11	250.000		104	48 - 148	2.48	20	
tert-Butylbenzene	45.7900	5.0	0.80	50.0000		91.6	81 - 135	10.9	20	
Tetrachloroethene	48.6000	5.0	0.31	50.0000		97.2	75 - 127	8.81	20	
Toluene	53.1500	5.0	0.27	50.0000		106	88 - 130	1.79	20	
trans-1,2-Dichloroethene	55.8100	5.0	0.56	50.0000		112	79 - 127	4.43	20	
trans-1,3-Dichloropropene	54.3100	5.0	0.59	50.0000		109	80 - 130	0.332	20	
Trichloroethene	49.6600	5.0	0.32	50.0000		99.3	83 - 126	2.08	20	
Trichlorofluoromethane	56.6800	5.0	1.0	50.0000		113	62 - 143	2.94	20	
Vinyl acetate	549.830	50	6.0	500.000		110	69 - 150	3.96	20	
Vinyl chloride	52.6800	5.0	0.92	50.0000		105	69 - 140	1.26	20	

Surrogate: 1,2-Dichloroethane-d4 43.01
Surrogate: 4-Bromofluorobenzene 49.85
Surrogate: Dibromofluoromethane 53.48
Surrogate: Toluene-d8 53.06

50.0000 86.0 66 - 200
 50.0000 99.7 50 - 146
 50.0000 107 77 - 159
 50.0000 106 81 - 128

Matrix Spike (B1E0457-MS1)

Source: 2101182-01

Prepared: 5/27/2021 Analyzed: 5/27/2021

1,1,1,2-Tetrachloroethane	45.6300	5.0	0.52	50.0000	ND	91.3	50 - 126		
1,1,1-Trichloroethane	51.0300	5.0	0.26	50.0000	ND	102	56 - 144		
1,1,1,2-Tetrachloroethane	47.8800	5.0	0.21	50.0000	ND	95.8	20 - 153		
1,1,2-Trichloroethane	50.3800	5.0	0.40	50.0000	ND	101	0 - 421		
1,1-Dichloroethane	54.3000	5.0	1.4	50.0000	ND	109	58 - 131		
1,1-Dichloroethene	51.4100	5.0	1.9	50.0000	ND	103	60 - 143		
1,1-Dichloropropene	42.3200	5.0	0.54	50.0000	ND	84.6	57 - 144		
1,2,3-Trichloropropane	47.9400	5.0	0.40	50.0000	ND	95.9	52 - 121		
1,2,3-Trichlorobenzene	41.5600	5.0	0.83	50.0000	ND	83.1	0 - 153		
1,2,4-Trichlorobenzene	44.1400	5.0	0.80	50.0000	ND	88.3	0 - 146		
1,2,4-Trimethylbenzene	44.3400	5.0	0.91	50.0000	ND	88.7	26 - 155		
1,2-Dibromo-3-chloropropane	39.9600	10	1.1	50.0000	ND	79.9	36 - 125		
1,2-Dibromoethane	49.4200	5.0	0.40	50.0000	ND	98.8	56 - 127		
1,2-Dichlorobenzene	45.6700	5.0	0.21	50.0000	ND	91.3	26 - 136		
1,2-Dichloroethane	48.2800	5.0	0.50	50.0000	ND	96.6	60 - 118		



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Project Number : 185805145, Dedeaux - SBD
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 Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S (continued)

Matrix Spike (B1E0457-MS1) - Continued

Source: 2101182-01

Prepared: 5/27/2021 Analyzed: 5/27/2021

1,2-Dichloropropane	50.9300	5.0	0.46	50.0000	ND	102	52 - 124			
1,3,5-Trimethylbenzene	44.4900	5.0	0.70	50.0000	ND	89.0	31 - 152			
1,3-Dichlorobenzene	44.0500	5.0	0.36	50.0000	ND	88.1	26 - 140			
1,3-Dichloropropane	46.0000	5.0	0.49	50.0000	ND	92.0	56 - 118			
1,4-Dichlorobenzene	45.7700	5.0	0.27	50.0000	ND	91.5	27 - 136			
2,2-Dichloropropane	53.3800	5.0	0.28	50.0000	ND	107	50 - 146			
2-Chlorotoluene	44.9700	5.0	0.53	50.0000	ND	89.9	28 - 149			
4-Chlorotoluene	44.1700	5.0	0.40	50.0000	ND	88.3	35 - 142			
4-Isopropyltoluene	46.1900	5.0	0.81	50.0000	ND	92.4	12 - 175			
Benzene	46.8000	5.0	0.36	50.0000	ND	93.6	61 - 127			
Bromobenzene	45.5700	5.0	0.62	50.0000	ND	91.1	40 - 129			
Bromochloromethane	51.0600	5.0	0.30	50.0000	ND	102	57 - 135			
Bromodichloromethane	48.1400	5.0	0.52	50.0000	ND	96.3	58 - 119			
Bromoform	47.6600	5.0	1.4	50.0000	ND	95.3	48 - 130			
Bromomethane	49.0900	5.0	2.5	50.0000	ND	98.2	40 - 183			
Carbon disulfide	51.4600	5.0	0.94	50.0000	ND	103	49 - 153			
Carbon tetrachloride	49.1100	5.0	0.73	50.0000	ND	98.2	49 - 146			
Chlorobenzene	46.5000	5.0	0.42	50.0000	ND	93.0	46 - 128			
Chloroethane	65.0700	5.0	1.5	50.0000	ND	130	37 - 178			
Chloroform	51.0800	5.0	0.24	50.0000	ND	102	59 - 129			
Chloromethane	54.5900	5.0	1.1	50.0000	ND	109	31 - 168			
cis-1,2-Dichloroethene	54.8100	5.0	0.20	50.0000	ND	110	52 - 137			
cis-1,3-Dichloropropene	49.1100	5.0	0.39	50.0000	ND	98.2	45 - 130			
Di-isopropyl ether	56.1100	5.0	1.9	50.0000	ND	112	55 - 132			
Dibromochloromethane	44.7800	5.0	0.81	50.0000	ND	89.6	56 - 117			
Dibromomethane	46.8400	5.0	0.23	50.0000	ND	93.7	62 - 116			
Dichlorodifluoromethane	43.2800	5.0	0.14	50.0000	ND	86.6	0 - 266			
Ethyl Acetate	574.770	50	7.0	500.000	ND	115	16 - 156			
Ethyl Ether	583.330	50	17	500.000	ND	117	58 - 127			
Ethyl tert-butyl ether	55.4800	5.0	0.85	50.0000	ND	111	23 - 181			
Ethylbenzene	46.1900	5.0	0.43	50.0000	ND	92.4	43 - 144			
Freon-113	50.4000	5.0	1.3	50.0000	ND	101	45 - 148			
Hexachlorobutadiene	42.0400	5.0	0.40	50.0000	ND	84.1	0 - 149			
Isopropylbenzene	44.8800	5.0	0.79	50.0000	ND	89.8	38 - 148			
m,p-Xylene	91.1200	10	0.98	100.000	ND	91.1	43 - 146			
Methylene chloride	51.5500	5.0	2.2	50.0000	ND	103	51 - 139			
MTBE	54.9800	5.0	0.81	50.0000	ND	110	41 - 152			
n-Butylbenzene	43.7500	5.0	1.2	50.0000	ND	87.5	11 - 163			
n-Propylbenzene	45.4300	5.0	0.78	50.0000	ND	90.9	31 - 154			
Naphthalene	44.4400	5.0	1.1	50.0000	ND	88.9	0 - 266			



Certificate of Analysis

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Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S (continued)

Matrix Spike (B1E0457-MS1) - Continued

Source: 2101182-01

Prepared: 5/27/2021 Analyzed: 5/27/2021

o-Xylene	45.7800	5.0	0.67	50.0000	ND	91.6	40 - 142			
sec-Butylbenzene	43.5200	5.0	0.63	50.0000	ND	87.0	20 - 161			
Styrene	46.3100	5.0	0.45	50.0000	ND	92.6	31 - 157			
tert-Amyl methyl ether	56.7000	5.0	1.1	50.0000	ND	113	20 - 179			
tert-Butanol	280.890	100	11	250.000	ND	112	6 - 173			
tert-Butylbenzene	44.5000	5.0	0.80	50.0000	ND	89.0	28 - 155			
Tetrachloroethene	47.3100	5.0	0.31	50.0000	ND	94.6	39 - 144			
Toluene	46.5400	5.0	0.27	50.0000	ND	93.1	10 - 179			
trans-1,2-Dichloroethene	54.3000	5.0	0.56	50.0000	ND	109	60 - 135			
trans-1,3-Dichloropropene	48.9400	5.0	0.59	50.0000	ND	97.9	53 - 131			
Trichloroethene	45.6000	5.0	0.32	50.0000	ND	91.2	54 - 135			
Trichlorofluoromethane	55.7200	5.0	1.0	50.0000	ND	111	35 - 165			
Vinyl acetate	463.040	50	6.0	500.000	ND	92.6	0 - 180			
Vinyl chloride	54.0500	5.0	0.92	50.0000	ND	108	44 - 165			
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<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>60.64</i>			<i>50.0000</i>		<i>121</i>	<i>66 - 200</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>50.36</i>			<i>50.0000</i>		<i>101</i>	<i>50 - 146</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.04</i>			<i>50.0000</i>		<i>102</i>	<i>77 - 159</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.78</i>			<i>50.0000</i>		<i>99.6</i>	<i>81 - 128</i>			

Matrix Spike Dup (B1E0457-MSD1)

Source: 2101182-01

Prepared: 5/27/2021 Analyzed: 5/27/2021

1,1,1,2-Tetrachloroethane	48.2000	5.0	0.52	50.0000	ND	96.4	50 - 126	5.48	20	
1,1,1-Trichloroethane	53.1900	5.0	0.26	50.0000	ND	106	56 - 144	4.15	20	
1,1,2,2-Tetrachloroethane	47.6800	5.0	0.21	50.0000	ND	95.4	20 - 153	0.419	20	
1,1,2-Trichloroethane	53.4400	5.0	0.40	50.0000	ND	107	0 - 421	5.89	20	
1,1-Dichloroethane	55.9500	5.0	1.4	50.0000	ND	112	58 - 131	2.99	20	
1,1-Dichloroethene	52.4100	5.0	1.9	50.0000	ND	105	60 - 143	1.93	20	
1,1-Dichloropropene	48.2800	5.0	0.54	50.0000	ND	96.6	57 - 144	13.2	20	
1,2,3-Trichloropropane	48.3600	5.0	0.40	50.0000	ND	96.7	52 - 121	0.872	20	
1,2,3-Trichlorobenzene	42.5800	5.0	0.83	50.0000	ND	85.2	0 - 153	2.42	20	
1,2,4-Trichlorobenzene	44.3700	5.0	0.80	50.0000	ND	88.7	0 - 146	0.520	20	
1,2,4-Trimethylbenzene	44.5800	5.0	0.91	50.0000	ND	89.2	26 - 155	0.540	20	
1,2-Dibromo-3-chloropropane	49.7800	10	1.1	50.0000	ND	99.6	36 - 125	21.9	20	R
1,2-Dibromoethane	51.4200	5.0	0.40	50.0000	ND	103	56 - 127	3.97	20	
1,2-Dichlorobenzene	44.2100	5.0	0.21	50.0000	ND	88.4	26 - 136	3.25	20	
1,2-Dichloroethane	52.2300	5.0	0.50	50.0000	ND	104	60 - 118	7.86	20	
1,2-Dichloropropane	53.0400	5.0	0.46	50.0000	ND	106	52 - 124	4.06	20	
1,3,5-Trimethylbenzene	45.3500	5.0	0.70	50.0000	ND	90.7	31 - 152	1.91	20	
1,3-Dichlorobenzene	45.8100	5.0	0.36	50.0000	ND	91.6	26 - 140	3.92	20	
1,3-Dichloropropane	47.7000	5.0	0.49	50.0000	ND	95.4	56 - 118	3.63	20	
1,4-Dichlorobenzene	45.2300	5.0	0.27	50.0000	ND	90.5	27 - 136	1.19	20	



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Project Number : 185805145, Dedeaux - SBD

Report To : Alicia Jansen

Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S (continued)

Matrix Spike Dup (B1E0457-MSD1) - Continued

Source: 2101182-01

Prepared: 5/27/2021 Analyzed: 5/27/2021

2,2-Dichloropropane	55.9900	5.0	0.28	50.0000	ND	112	50 - 146	4.77	20	
2-Chlorotoluene	45.0600	5.0	0.53	50.0000	ND	90.1	28 - 149	0.200	20	
4-Chlorotoluene	43.7900	5.0	0.40	50.0000	ND	87.6	35 - 142	0.864	20	
4-Isopropyltoluene	45.7400	5.0	0.81	50.0000	ND	91.5	12 - 175	0.979	20	
Benzene	50.4500	5.0	0.36	50.0000	ND	101	61 - 127	7.51	20	
Bromobenzene	43.8600	5.0	0.62	50.0000	ND	87.7	40 - 129	3.82	20	
Bromochloromethane	53.8100	5.0	0.30	50.0000	ND	108	57 - 135	5.24	20	
Bromodichloromethane	55.8900	5.0	0.52	50.0000	ND	112	58 - 119	14.9	20	
Bromoform	48.3400	5.0	1.4	50.0000	ND	96.7	48 - 130	1.42	20	
Bromomethane	45.6100	5.0	2.5	50.0000	ND	91.2	40 - 183	7.35	20	
Carbon disulfide	55.8100	5.0	0.94	50.0000	ND	112	49 - 153	8.11	20	
Carbon tetrachloride	50.3300	5.0	0.73	50.0000	ND	101	49 - 146	2.45	20	
Chlorobenzene	46.4400	5.0	0.42	50.0000	ND	92.9	46 - 128	0.129	20	
Chloroethane	53.4300	5.0	1.5	50.0000	ND	107	37 - 178	19.6	20	
Chloroform	53.6600	5.0	0.24	50.0000	ND	107	59 - 129	4.93	20	
Chloromethane	51.5900	5.0	1.1	50.0000	ND	103	31 - 168	5.65	20	
cis-1,2-Dichloroethene	54.5800	5.0	0.20	50.0000	ND	109	52 - 137	0.421	20	
cis-1,3-Dichloropropene	51.9900	5.0	0.39	50.0000	ND	104	45 - 130	5.70	20	
Di-isopropyl ether	57.2800	5.0	1.9	50.0000	ND	115	55 - 132	2.06	20	
Dibromochloromethane	44.5900	5.0	0.81	50.0000	ND	89.2	56 - 117	0.425	20	
Dibromomethane	46.7600	5.0	0.23	50.0000	ND	93.5	62 - 116	0.171	20	
Dichlorodifluoromethane	38.7700	5.0	0.14	50.0000	ND	77.5	0 - 266	11.0	20	
Ethyl Acetate	580.670	50	7.0	500.000	ND	116	16 - 156	1.02	20	
Ethyl Ether	581.860	50	17	500.000	ND	116	58 - 127	0.252	20	
Ethyl tert-butyl ether	55.9700	5.0	0.85	50.0000	ND	112	23 - 181	0.879	20	
Ethylbenzene	46.1600	5.0	0.43	50.0000	ND	92.3	43 - 144	0.0650	20	
Freon-113	52.4500	5.0	1.3	50.0000	ND	105	45 - 148	3.99	20	
Hexachlorobutadiene	46.6800	5.0	0.40	50.0000	ND	93.4	0 - 149	10.5	20	
Isopropylbenzene	47.0300	5.0	0.79	50.0000	ND	94.1	38 - 148	4.68	20	
m,p-Xylene	92.5700	10	0.98	100.000	ND	92.6	43 - 146	1.58	20	
Methylene chloride	56.9800	5.0	2.2	50.0000	ND	114	51 - 139	10.0	20	
MTBE	56.3000	5.0	0.81	50.0000	ND	113	41 - 152	2.37	20	
n-Butylbenzene	45.7400	5.0	1.2	50.0000	ND	91.5	11 - 163	4.45	20	
n-Propylbenzene	45.5100	5.0	0.78	50.0000	ND	91.0	31 - 154	0.176	20	
Naphthalene	45.8300	5.0	1.1	50.0000	ND	91.7	0 - 266	3.08	20	
o-Xylene	45.3100	5.0	0.67	50.0000	ND	90.6	40 - 142	1.03	20	
sec-Butylbenzene	46.6600	5.0	0.63	50.0000	ND	93.3	20 - 161	6.96	20	
Styrene	46.6100	5.0	0.45	50.0000	ND	93.2	31 - 157	0.646	20	
tert-Amyl methyl ether	57.2200	5.0	1.1	50.0000	ND	114	20 - 179	0.913	20	
tert-Butanol	286.820	100	11	250.000	ND	115	6 - 173	2.09	20	



Certificate of Analysis

Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD
Report To : Alicia Jansen
Reported : 06/03/2021

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B1E0457 - MSVOA_S (continued)

Matrix Spike Dup (B1E0457-MSD1) - Continued

Source: 2101182-01

Prepared: 5/27/2021 Analyzed: 5/27/2021

tert-Butylbenzene	45.3100	5.0	0.80	50.0000	ND	90.6	28 - 155	1.80	20	
Tetrachloroethene	49.8700	5.0	0.31	50.0000	ND	99.7	39 - 144	5.27	20	
Toluene	51.7300	5.0	0.27	50.0000	ND	103	10 - 179	10.6	20	
trans-1,2-Dichloroethene	56.9700	5.0	0.56	50.0000	ND	114	60 - 135	4.80	20	
trans-1,3-Dichloropropene	52.9800	5.0	0.59	50.0000	ND	106	53 - 131	7.93	20	
Trichloroethene	51.0600	5.0	0.32	50.0000	ND	102	54 - 135	11.3	20	
Trichlorofluoromethane	56.9900	5.0	1.0	50.0000	ND	114	35 - 165	2.25	20	
Vinyl acetate	382.280	50	6.0	500.000	ND	76.5	0 - 180	19.1	20	
Vinyl chloride	54.8900	5.0	0.92	50.0000	ND	110	44 - 165	1.54	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>59.06</i>			<i>50.0000</i>		<i>118</i>	<i>66 - 200</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>53.18</i>			<i>50.0000</i>		<i>106</i>	<i>50 - 146</i>			
<i>Surrogate: Dibromofluoromethan</i>	<i>55.59</i>			<i>50.0000</i>		<i>111</i>	<i>77 - 159</i>			
<i>Surrogate: Toluene-d8</i>	<i>53.35</i>			<i>50.0000</i>		<i>107</i>	<i>81 - 128</i>			



Certificate of Analysis

Stantec

735 E. Carnegie Drive, Suite 280

San Bernardino , CA 92408

Project Number : 185805145, Dedeaux - SBD

Report To : Alicia Jansen

Reported : 06/03/2021

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.



CHAIN OF CUSTODY

Laboratory Project Number:
2101181

Page 1 of 2

Client Name/Address: Stantec Consulting Services Inc. 735 E. Carnegie Drive, Suite 280 San Bernardino, CA 92408 909-335-6116		Project Manager: Alicia Jansen		Analysis Required		Turn Around Time: Normal <input checked="" type="checkbox"/> 72 Hour: 48 Hour: 24 Hour: Same Day: Other:	
Laboratory: ATL 3275 Walnut Ave. Signal Hill, CA 800-499-4388		E-Mail Address: alicia.jansen@stantec.com		TPH GRO/DRO/ORO - 8015B		Sample Temp °C: <u>5.1°C</u>	
Sampler Name: Mitchell Bohn		Stantec Project Number: 185805145		As/Pb - 6010B		Special Instructions	
Project: Dedeaux - SBD		Sample Matrix		VOCs - 8260B			
Sample Description/Identification	Preservative (see below)	# of Cont.	Sample Date	Sample Time	Filtered Sample		
SV-1-5	Soil	1	5/24/21	0836	X	X	
SV-1-10		1		0840		X	
SV-1-15		1		0844	X		
SV-2-5		1		0916		X	
SV-2-10		1		0918	X	X	
SV-2-15		1		0938		X	
SV-3-5		1		1002	X	X	
SV-3-10		1		1006	X		
SV-3-15		1		1011		X	
SV-4-5		1		1045	X	X	
SV-4-10		1		1048	X		
SV-4-15		1		1052		X	
SB-1-1		1		1114		X	
SB-1-3		1		1112		X	
SB-2-1	Soil	1	5/24/21	1131		X	

Sample Preservative: 1=ICE - 2=HCl - 3=H₂SO₄ - 4=HNO₃ - 5=NaOH - 6=Other:

Special Instruction:

Relinquished By:	Date	Time	Received By + Company Name:	Date	Time
	5/24/21	1530	Stantec	5/25/21	12:08
Relinquished By + Company Name:	Date	Time	Received By + Company Name:	Date	Time
Stantec	5/25/21	12:08	Max Rottman	5/25/21	12:08
Relinquished By + Company Name:	Date	Time	Received By + Company Name:	Date	Time
Max Rottman	5/25/21	1324		5/25/21	1:26



CHAIN OF CUSTODY

Laboratory Project Number:
2101181

Page 2 of 2

Client Name/Address: Stantec Consulting Services Inc. 735 E. Carnegie Drive, Suite 280 San Bernardino, CA 92408 909-335-6116		Project Manager: Alicia Jansen E-Mail Address: alicia.jansen@stantec.com Sampler Name: Mitchell Bohn Stantec Project Number: 185805145 Project: Dedeaux - SBD		Filtered Sample VOCs - 8260B TPH GRO/DRO/ORO - 8015B As/Pb - 6010B HOLD		Analysis Required		Turn Around Time: Normal <input checked="" type="checkbox"/> 72 Hour: 48 Hour: 24 Hour: Same Day: Other: Sample Temp °C: 5.1°C	
Sample Description/Identification	Sample Matrix	Preservative (see below)	# of Cont.	Sample Date	Sample Time				
SB-2-3	Soil		1	5/24/21	1135				
SV-5-1	↓		↓	↓	1210				
SV-5-3	↓		↓	↓	1215		X		
SV-6-1	↓		↓	↓	1258		X		
SV-6-3	Soil		1	5/24/21	1303		X		

Sample Preservative: 1=ICE - 2=HCl - 3=H₂SO₄ - 4=HNO₃ - 5=NaOH - 6=Other: _____

Special Instruction: _____

Relinquished By:	Date: 5/24/21	Time: 1530	Received By + Company Name: Stantec	Date: 5/25/21	Time: 12:08
Relinquished By + Company Name: STANTEC	Date: 5/25/21	Time: 12:08	Received By + Company Name: Max Rothman	Date: 5/25/21	Time: 12:08
Relinquished By + Company Name: Max Rothman	Date: 5/25/21	Time: 1324	Received By + Company Name:	Date: 5/25/21	Time: 1:26

09 June 2021

Alicia Jansen
Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

H&P Project: ST052721-SB2
Client Project: 185805145/ Industrial Pkwy

Dear Alicia Jansen:



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 27-May-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 - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-1-5	E105093-01	Vapor	27-May-21	27-May-21
SV-1-15	E105093-02	Vapor	27-May-21	27-May-21
SV-2-5	E105093-03	Vapor	27-May-21	27-May-21
SV-2-15	E105093-04	Vapor	27-May-21	27-May-21
SV-3-5	E105093-05	Vapor	27-May-21	27-May-21
SV-3-15	E105093-06	Vapor	27-May-21	27-May-21
SV-4-5	E105093-07	Vapor	27-May-21	27-May-21
SV-4-15	E105093-08	Vapor	27-May-21	27-May-21
SV-5-5	E105093-09	Vapor	27-May-21	27-May-21
SV-5-15	E105093-10	Vapor	27-May-21	27-May-21
SV-6-5	E105093-11	Vapor	27-May-21	27-May-21
SV-6-15	E105093-12	Vapor	27-May-21	27-May-21
SV-6-15 REP	E105093-13	Vapor	27-May-21	27-May-21
SV-7-5	E105093-14	Vapor	27-May-21	27-May-21
SV-7-15	E105093-15	Vapor	27-May-21	27-May-21

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1-5 (E105093-01) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	4400	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	410	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1-5 (E105093-01) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>			102 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>			92.5 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>			87.2 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>			92.1 %	75-125	"	"	"	"	"	"

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1-15 (E105093-02) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	8800	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	760	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1-15 (E105093-02) Vapor										J- Report
Sampled: 27-May-21										Received: 27-May-21
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>			98.5 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>			91.6 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>			95.6 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>			90.4 %	75-125	"	"	"	"	"	"

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Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-5 (E105093-03) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	4400	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	400	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-5 (E105093-03) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<hr/>										
Surrogate: Dibromofluoromethane			103 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4			91.3 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8			93.3 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			91.6 %	75-125	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-15 (E105093-04) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	7200	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	610	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2-15 (E105093-04) Vapor										J- Report
Sampled: 27-May-21										Received: 27-May-21
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"

Surrogate: Dibromofluoromethane	93.5 %	75-125	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	86.9 %	75-125	"	"	"	"
Surrogate: Toluene-d8	84.9 %	75-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	90.9 %	75-125	"	"	"	"

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3-5 (E105093-05) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	1400	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3-5 (E105093-05) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<hr/>										
Surrogate: Dibromofluoromethane			97.3 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4			83.7 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8			88.1 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			92.0 %	75-125	"	"	"	"	"	"

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3-15 (E105093-06) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	5400	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	420	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-3-15 (E105093-06) Vapor										J- Report
Sampled: 27-May-21										Received: 27-May-21
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>			102 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>			94.2 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>			87.4 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>			87.9 %	75-125	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4-5 (E105093-07) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	3300	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	280	160	400	"	"	"	"	"	"	QL-1H, J
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4-5 (E105093-07) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<hr/>										
Surrogate: Dibromofluoromethane			101 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4			83.5 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8			84.5 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			88.4 %	75-125	"	"	"	"	"	"

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4-15 (E105093-08) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	7500	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	540	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-4-15 (E105093-08) Vapor										J- Report
Sampled: 27-May-21										Received: 27-May-21
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>			100 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>			84.0 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>			86.9 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>			88.6 %	75-125	"	"	"	"	"	"

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5-5 (E105093-09) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	4300	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	330	160	400	"	"	"	"	"	"	QL-1H, J
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5-5 (E105093-09) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<hr/>										
Surrogate: Dibromofluoromethane			96.2 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4			81.7 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8			86.7 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			90.7 %	75-125	"	"	"	"	"	"

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Project: ST052721-SB2
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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5-15 (E105093-10) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	11000	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	740	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	170	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5-15 (E105093-10) Vapor										
Sampled: 27-May-21 Received: 27-May-21										
J- Report										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<hr/>										
Surrogate: Dibromofluoromethane			97.1 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4			78.3 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8			87.1 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			90.8 %	75-125	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-5 (E105093-11) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	4000	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	310	160	400	"	"	"	"	"	"	QL-1H, J
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-5 (E105093-11) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<hr/>										
Surrogate: Dibromofluoromethane			105 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4			87.4 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8			97.6 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			83.9 %	75-125	"	"	"	"	"	"

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-15 (E105093-12) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	9800	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	820	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-15 (E105093-12) Vapor Sampled: 27-May-21 Received: 27-May-21										
J- Report										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"

Surrogate: Dibromofluoromethane	105 %	75-125	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	83.8 %	75-125	"	"	"	"
Surrogate: Toluene-d8	91.4 %	75-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	92.1 %	75-125	"	"	"	"

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-15 REP (E105093-13) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	10000	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	840	160	400	"	"	"	"	"	"	QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-6-15 REP (E105093-13) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<hr/>										
Surrogate: Dibromofluoromethane			96.5 %	75-125	"	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4			83.3 %	75-125	"	"	"	"	"	"
Surrogate: Toluene-d8			85.7 %	75-125	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene			89.8 %	75-125	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-7-5 (E105093-14) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	1500	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-7-5 (E105093-14) Vapor										J- Report
Sampled: 27-May-21 Received: 27-May-21										
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
<i>Surrogate: Dibromofluoromethane</i>			101 %	75-125	"	"	"	"	"	"
<i>Surrogate: 1,2-Dichloroethane-d4</i>			82.7 %	75-125	"	"	"	"	"	"
<i>Surrogate: Toluene-d8</i>			98.7 %	75-125	"	"	"	"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>			88.0 %	75-125	"	"	"	"	"	"

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-7-15 (E105093-15) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1-Difluoroethane (LCC)	ND		400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
Dichlorodifluoromethane (F12)	5200	160	400	"	"	"	"	"	"	QL-1H
Chloromethane	ND	160	400	"	"	"	"	"	"	
Vinyl chloride	ND	40	40	"	"	"	"	"	"	
Bromomethane	ND	160	400	"	"	"	"	"	"	
Chloroethane	ND	160	400	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	310	160	400	"	"	"	"	"	"	J, QL-1H
1,1-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	160	400	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	160	400	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	160	400	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
1,1-Dichloroethane	ND	160	400	"	"	"	"	"	"	
2,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	160	400	"	"	"	"	"	"	
Chloroform	ND	40	80	"	"	"	"	"	"	
Bromochloromethane	ND	160	400	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,1-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Carbon tetrachloride	ND	40	80	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	40	80	"	"	"	"	"	"	
Benzene	ND	40	80	"	"	"	"	"	"	
Trichloroethene	ND	48	80	"	"	"	"	"	"	
1,2-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Bromodichloromethane	ND	160	400	"	"	"	"	"	"	
Dibromomethane	ND	160	400	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
Toluene	ND	320	800	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	160	400	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	160	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	160	400	"	"	"	"	"	"	
1,3-Dichloropropane	ND	160	400	"	"	"	"	"	"	
Tetrachloroethene	ND	64	80	"	"	"	"	"	"	
Dibromochloromethane	ND	160	400	"	"	"	"	"	"	
Chlorobenzene	ND	40	80	"	"	"	"	"	"	
Ethylbenzene	ND	160	400	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-7-15 (E105093-15) Vapor Sampled: 27-May-21 Received: 27-May-21										J- Report
1,1,1,2-Tetrachloroethane	ND	160	400	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
m,p-Xylene	ND	160	400	"	"	"	"	"	"	"
o-Xylene	ND	160	400	"	"	"	"	"	"	"
Styrene	ND	160	400	"	"	"	"	"	"	"
Bromoform	ND	160	400	"	"	"	"	"	"	"
Isopropylbenzene (Cumene)	ND	160	400	"	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	160	400	"	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	160	400	"	"	"	"	"	"	"
n-Propylbenzene	ND	160	400	"	"	"	"	"	"	"
Bromobenzene	ND	160	400	"	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
2-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
4-Chlorotoluene	ND	160	400	"	"	"	"	"	"	"
tert-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	160	400	"	"	"	"	"	"	"
sec-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
p-Isopropyltoluene	ND	160	400	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
n-Butylbenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	160	400	"	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1600	4000	"	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"
Hexachlorobutadiene	ND	160	400	"	"	"	"	"	"	"
Naphthalene	ND	80	80	"	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	160	400	"	"	"	"	"	"	"

Surrogate: Dibromofluoromethane	102 %	75-125	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	89.3 %	75-125	"	"	"	"
Surrogate: Toluene-d8	90.0 %	75-125	"	"	"	"
Surrogate: 4-Bromofluorobenzene	90.0 %	75-125	"	"	"	"

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09-Jun-21 09:48

Petroleum Hydrocarbon Analysis by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-1-5 (E105093-01) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-1-15 (E105093-02) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-2-5 (E105093-03) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-2-15 (E105093-04) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-3-5 (E105093-05) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-3-15 (E105093-06) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-4-5 (E105093-07) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-4-15 (E105093-08) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-5-5 (E105093-09) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Petroleum Hydrocarbon Analysis by H&P 8260SV

H&P Mobile Geochemistry, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-5-15 (E105093-10) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-6-5 (E105093-11) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-6-15 (E105093-12) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-6-15 REP (E105093-13) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-7-5 (E105093-14) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	
SV-7-15 (E105093-15) Vapor Sampled: 27-May-21 Received: 27-May-21										
TPHv (C5 - C12)	ND		160000	ug/m3	0.04	EE12703	27-May-21	27-May-21	H&P 8260SV	

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV - 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 EE12703 - EPA 5030

Blank (EE12703-BLK1)

Prepared & Analyzed: 27-May-21

1,1-Difluoroethane (LCC)	ND	400	ug/m3							
Dichlorodifluoromethane (F12)	ND	400	"							
Chloromethane	ND	400	"							
Vinyl chloride	ND	40	"							
Bromomethane	ND	400	"							
Chloroethane	ND	400	"							
Trichlorofluoromethane (F11)	ND	400	"							
1,1-Dichloroethene	ND	400	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	400	"							
Methylene chloride (Dichloromethane)	ND	400	"							
Methyl tertiary-butyl ether (MTBE)	ND	400	"							
trans-1,2-Dichloroethene	ND	400	"							
1,1-Dichloroethane	ND	400	"							
2,2-Dichloropropane	ND	400	"							
cis-1,2-Dichloroethene	ND	400	"							
Chloroform	ND	80	"							
Bromochloromethane	ND	400	"							
1,1,1-Trichloroethane	ND	400	"							
1,1-Dichloropropene	ND	400	"							
Carbon tetrachloride	ND	80	"							
1,2-Dichloroethane (EDC)	ND	80	"							
Benzene	ND	80	"							
Trichloroethene	ND	80	"							
1,2-Dichloropropane	ND	400	"							
Bromodichloromethane	ND	400	"							
Dibromomethane	ND	400	"							
cis-1,3-Dichloropropene	ND	400	"							
Toluene	ND	800	"							
trans-1,3-Dichloropropene	ND	400	"							
1,1,2-Trichloroethane	ND	400	"							
1,2-Dibromoethane (EDB)	ND	400	"							
1,3-Dichloropropane	ND	400	"							
Tetrachloroethene	ND	80	"							
Dibromochloromethane	ND	400	"							

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV - 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 EE12703 - EPA 5030

Blank (EE12703-BLK1)

Prepared & Analyzed: 27-May-21

Chlorobenzene	ND	80	ug/m3							
Ethylbenzene	ND	400	"							
1,1,1,2-Tetrachloroethane	ND	400	"							
m,p-Xylene	ND	400	"							
o-Xylene	ND	400	"							
Styrene	ND	400	"							
Bromoform	ND	400	"							
Isopropylbenzene (Cumene)	ND	400	"							
1,1,2,2-Tetrachloroethane	ND	400	"							
1,2,3-Trichloropropane	ND	400	"							
n-Propylbenzene	ND	400	"							
Bromobenzene	ND	400	"							
1,3,5-Trimethylbenzene	ND	400	"							
2-Chlorotoluene	ND	400	"							
4-Chlorotoluene	ND	400	"							
tert-Butylbenzene	ND	400	"							
1,2,4-Trimethylbenzene	ND	400	"							
sec-Butylbenzene	ND	400	"							
p-Isopropyltoluene	ND	400	"							
1,3-Dichlorobenzene	ND	400	"							
1,4-Dichlorobenzene	ND	400	"							
n-Butylbenzene	ND	400	"							
1,2-Dichlorobenzene	ND	400	"							
1,2-Dibromo-3-chloropropane	ND	4000	"							
1,2,4-Trichlorobenzene	ND	400	"							
Hexachlorobutadiene	ND	400	"							
Naphthalene	ND	80	"							
1,2,3-Trichlorobenzene	ND	400	"							

Surrogate: Dibromofluoromethane	2060		"	2000		103	75-125			
Surrogate: 1,2-Dichloroethane-d4	1840		"	2000		92.1	75-125			
Surrogate: Toluene-d8	1770		"	2000		88.6	75-125			
Surrogate: 4-Bromofluorobenzene	1730		"	2000		86.7	75-125			

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Volatile Organic Compounds by H&P 8260SV - 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 EE12703 - EPA 5030

LCS (EE12703-BS1)

Prepared & Analyzed: 27-May-21

Dichlorodifluoromethane (F12)	6800	500	ug/m3	5000		135	70-130			QL-1H
Vinyl chloride	6200	50	"	5000		125	70-130			
Chloroethane	8200	500	"	5000		164	70-130			QL-1H
Trichlorofluoromethane (F11)	14000	500	"	5000		276	70-130			QL-1H
1,1-Dichloroethene	4700	500	"	5000		94.3	70-130			
1,1,2-Trichlorotrifluoroethane (F113)	5000	500	"	5000		99.4	70-130			
Methylene chloride (Dichloromethane)	4500	500	"	5000		89.2	70-130			
trans-1,2-Dichloroethene	4500	500	"	5000		90.4	70-130			
1,1-Dichloroethane	4300	500	"	5000		86.7	70-130			
cis-1,2-Dichloroethene	4700	500	"	5000		94.5	70-130			
Chloroform	4500	100	"	5000		89.7	70-130			
1,1,1-Trichloroethane	4600	500	"	5000		92.1	70-130			
Carbon tetrachloride	4900	100	"	5000		98.7	70-130			
1,2-Dichloroethane (EDC)	4400	100	"	5000		87.6	70-130			
Benzene	4600	100	"	5000		92.1	70-130			
Trichloroethene	5100	100	"	5000		102	70-130			
Toluene	4400	1000	"	5000		87.8	70-130			
1,1,2-Trichloroethane	4200	500	"	5000		83.9	70-130			
Tetrachloroethene	5300	100	"	5000		105	70-130			
Ethylbenzene	4900	500	"	5000		98.2	70-130			
1,1,1,2-Tetrachloroethane	5100	500	"	5000		101	70-130			
m,p-Xylene	10000	500	"	10000		103	70-130			
o-Xylene	5000	500	"	5000		99.5	70-130			
1,1,2,2-Tetrachloroethane	3500	500	"	5000		70.5	70-130			

Surrogate: Dibromofluoromethane	2600		"	2500		104	75-125			
Surrogate: 1,2-Dichloroethane-d4	2160		"	2500		86.5	75-125			
Surrogate: Toluene-d8	2550		"	2500		102	75-125			
Surrogate: 4-Bromofluorobenzene	2000		"	2500		80.1	75-125			

Stantec - San Bernardino
735 E Carnegie Dr., Ste 280
San Bernardino, CA 92408

Project: ST052721-SB2
Project Number: 185805145/ Industrial Pkwy
Project Manager: Alicia Jansen

Reported:
09-Jun-21 09:48

Petroleum Hydrocarbon Analysis by H&P 8260SV - 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 EE12703 - EPA 5030

Blank (EE12703-BLK1)

Prepared & Analyzed: 27-May-21

TPHv (C5 - C12)	ND	160000	ug/m3							
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Lab Client and Project Information		
Lab Client/Consultant: <u>Stantec</u>	Project Name / #: <u>185805145</u>	
Lab Client Project Manager: <u>Alicia Jansen</u>	Project Location: <u>5770 Industrial Pkwy San Bernardino</u>	
Lab Client Address: <u>735 E. Carnegie Dr. St</u>	Report E-Mail(s): <u>james.dewoody@stantec.com</u>	
Lab Client City, State, Zip: <u>San Bernardino, CA 92408</u>	<u>mitchell.bohn@stantec.com</u>	
Phone Number: <u>909-362-1346</u>	<u>alicia.jansen@stantec.com</u>	
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): <u>B.V. I. Grossales</u>
<input type="checkbox"/> Excel EDD <input type="checkbox"/> Other EDD: _____	<input type="checkbox"/> Rush (specify): _____	Signature: <u>[Signature]</u>
<input type="checkbox"/> CA Geotracker Global ID: _____		Date: <u>05/27/21</u>

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>5/27/21</u>	Control #: <u>21037100/01/02</u>
H&P Project # <u>ST052721-SB2</u>	
Lab Work Order # <u>E105093</u>	
Sample Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: _____	Temp: _____
Outside Lab: _____	
Receipt Notes/Tracking #: _____	
Lab PM Initials: _____	

Additional Instructions to Laboratory: 6/2/21 include J flags for VOCs etc

* 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
								<input checked="" type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15							
SV-1-5		5/27/21	800	SV	G.S	318		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-1-15			800			332		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-2-5			817			299		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-2-15			817			87		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-3-5			851			287		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-3-15			851			348		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-4-5			913			332		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-4-15			913			318		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-3-15 REP								<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-5-5						299		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>Stantec</u>	Date: <u>5/27/21</u>	Time: <u>1345</u>	Received by: <u>[Signature]</u>	Company: <u>H&P</u>	Date: <u>5/27/21</u>	Time: <u>1345</u>
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____

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

Lab Client and Project Information		
Lab Client/Consultant: <u>STANTEC</u>	Project Name / #: <u>185805145</u>	
Lab Client Project Manager: <u>Alicia Jansen</u>	Project Location: <u>5770 Industrial Park</u>	
Lab Client Address: <u>735 East Carnegie, Suite 280</u>	Report E-Mail(s): <u>James.dewady@stantec.com</u>	
Lab Client City, State, Zip: <u>San Bernardino, CA, 92408</u>	<u>Mitchell.bohn@stantec.com</u>	
Phone Number: <u>909-362-1346</u>	<u>alicia.jansen@stantec.com</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>B. Vilarosales</u> Signature: <u>[Signature]</u> Date: <u>05/27/21</u>

Sample Receipt (Lab Use Only)	
Date Rec'd: <u>5/27/21</u>	Control #: <u>210371.00/01</u> / 1.02
H&P Project # <u>ST052721-SB2</u>	
Lab Work Order # <u>E105093</u>	
Sample Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Notes Below	
Receipt Gauge ID: _____	Temp: _____
Outside Lab: _____	
Receipt Notes/Tracking #: _____	
Lab PM Initials: _____	

Additional Instructions to Laboratory: 6/2/21 Prelim flags for VOCs yr

* 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
								<input checked="" type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15	<input type="checkbox"/> 8260SV	<input type="checkbox"/> TO-15							
SV-5-15		5/27/21	1037	S.V	G-5	332		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-6-5			1127			348		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-6-15			1127			287		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-7-15 6-15 REP			1127			87		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-7-15 7-5			1226			318		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SV-7-15			1226					<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Approved/Relinquished by: <u>[Signature]</u>	Company: <u>Stantec</u>	Date: <u>5/27/21</u>	Time: <u>1345</u>	Received by: <u>[Signature]</u>	Company: <u>H&P</u>	Date: <u>5/27/21</u>	Time: <u>1345</u>
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____
Approved/Relinquished by: _____	Company: _____	Date: _____	Time: _____	Received by: _____	Company: _____	Date: _____	Time: _____

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

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: ST052721-502/TECH/LAN Date: 05/27/24
 Site Address: 5770 Industrial Parkway San Bernardino Page: 1 of 2
 Consultant: Stantec H&P Rep(s): B. Villarasales
 Consultant Rep(s): Mitchell Bohn T. Le

Reviewed: EC
Scanned: EC

Equipment Info
 Inline Gauge ID#: _____
 Pump ID#: 009

Purge Volume Information
 PV Amount: 3PV
 PV Includes: Tubing
 Sand 40%
 Dry Bent 50%

Leak Check Compound
 1,1-DFA
 1,1,1,2-TFA
 A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.

Resample Key
 RS = Resample
 RD = for Dilution
 RL = for LCC Fail

Sample Information				Probe Specs				Purge & Collection Information									
Point ID	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	ProbeVac Hg/H ₂ O
1	SN-1-5	50	0800	5	7	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	-15
2	SN-1-15	50	0800	15	17	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	0
3	SN-2-5	50	0817	5	7	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	-5
4	SN-2-15	50	0817	15	17	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	0
5	SN-3-5	50	0851	5	7	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	-10
6	SN-3-15	50	0851	15	17	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	0
7	SN-4-5	50	0913	5	7	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	0
8	SN-4-15	50	0913	15	17	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	-10
9	SN-3-15 REP	50	1014	15	17	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	0
10	SN-5-5	50	1037	5	7	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	0
11	SN-5-15	50	1037	15	17	1/4	12	2.25	12	2.25	✓	✓	2213	200	11:04	200	-5
12																	

Site Notes such as weather, visitors, scope deviations, health & safety issues, etc. (When making sample specific notes, reference the line number above):
 X Replicate did not match. Resampled different probe (SN-6-15 REP) *PV accidentally calcd using 12' of tubing. 3PV should be 2358 mL. -outpurged by 73ml - OK.
 -ERIC C. 6/13/24

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: ST052721-SB2/TECH/LAN Date: 05/27/21
 Site Address: 5770 Industrial Pkwy San Bernardino Page: 2 of 2
 Consultant: Stantec H&P Rep(s): B. Villavargas
 Consultant Rep(s): Mitchell Bohm T. Le

Reviewed: EC
Scanned: EC

Equipment Info Inline Gauge ID#: <u>009</u> Pump ID#: <u>009</u>	Purge Volume Information PV Amount: <u>SPV</u> PV Includes: <input checked="" type="checkbox"/> Tubing <input checked="" type="checkbox"/> Sand 40% <input checked="" type="checkbox"/> Dry Bent 50%	Leak Check Compound <input checked="" type="checkbox"/> 1,1-DFA <input type="checkbox"/> 1,1,1,2-TFA A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.
	Purge Volume Information PV Includes: <input type="checkbox"/> Tubing <input checked="" type="checkbox"/> Sand 40% <input checked="" type="checkbox"/> Dry Bent 50%	Leak Check Compound <input checked="" type="checkbox"/> 1,1-DFA <input type="checkbox"/> 1,1,1,2-TFA A cloth saturated with LCC is placed around tubing connections and probe seal. This is done for all samples unless otherwise noted.

Point ID	Sample Information				Probe Specs				Purge & Collection Information								
	Syringe ID	Sample Volume (cc)	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing OD (in.)	Sand Ht (in.)	Sand Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Shut In Test 60 sec (✓)	Leak Check (✓)	Purge Vol (mL)	Purge Flow Rate (mL/min)	Pump Time (min:sec)	Sample Flow Rate (mL/min)	Probe/Vac <input type="checkbox"/> Hg <input type="checkbox"/> H ₂ O
1	348	50	1177	5	5	1/4	225	225	12	225	✓	✓	2113	200	11:24	200	-20
2	287	50	1177	15	17	1/4	225	225	12	225	✓	✓	2113	200	11:26	200	-5
3	317	50	1177	15	17	1/4	225	225	12	225	✓	✓	2113	200	—	200	-5
4	318	50	1226	5	7	1/4	225	225	12	225	✓	✓	2113	200	11:04	200	-5
5	332	50	1226	15	17	1/4	225	225	12	225	✓	✓	2113	200	11:26	200	-5
6																	
7																	
8																	
9																	
10																	
11																	
12																	

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

Log Sheet: Landtec Meter

H&P Project #: ST052721-SB2/TECH/LAN Date: 05/27/21
 Site Address: 5970 Industrial Pkwy San Bernardino Page: 1 of 2
 Consultant: Stanted H&P Rep(s): B. Villarosales
 Consultant Rep(s): Mitchell Bohn T. Le Reviewed: EC
 Scanned: EC

LADBS Certification Info
 Methane Testing License #10231
 Instrument: Landtec GEM 5000
 Instrument Accuracy: ±3% CH₄ 022
 Landtec Equipment ID#: ~~048~~
 Manometer ID#: 023

Landtec GEM 2000 Calibration						
Calibration Standard	Time	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	N ₂ (%)	Barometric Pressure ("Hg)
Opening Calibration	0824	15.2	15.2	4.1	69.4	28.31
Closing Calibration	1325	14.7	14.4	4.2	70.8	28.30
Acceptable Range	n/a	13.5 - 16.5	13.5 - 16.5	2.5 - 5.5	55 - 85	n/a

Point ID	Sample Time	Probe Depth (ft)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	N ₂ (%)	Barometric Pressure ("Hg)	Probe Pressure ("H ₂ O)	Field Notes
1	GN-1-5	5	0.0	0.7	19.5	79.8	28.27	0.0	
2	-15	15	0.0	0.8	19.1	80.1	28.27	0.0	
3	GN-2-5	5	0.0	0.2	19.5	80.3	28.27	0.0	
4	-15	15	0.0	0.5	19.1	80.3	28.27	0.0	
5	GN-3-5	5	0.0	0.7	19.0	80.2	28.27	0.0	
6	-15	15	0.0	2.9	16.1	81.0	28.27	0.0	
7	GN-4-5	5	0.0	2.0	17.6	80.4	28.27	0.0	
8	-15	15	0.0	2.4	16.7	80.9	28.27	0.0	
9	GN-5-5	5	0.0	0.5	19.7	80.2	28.27	0.0	
10	GN-5-15	15	0.0	0.5	18.6	80.9	28.27	0.0	

Site Notes (e.g. weather, visitors, scope deviations, health & safety issues, etc.):

Log Sheet: Landtec Meter

H&P Project #: ST052721-SB2/TECH/LAN Date: 05/27/21
 Site Address: 5770 Industrial Pkwy San Bernardino Page: 2 of 2
 Consultant: Startec H&P Rep(s): B. Villarasales
 Consultant Rep(s): Mitchell Bohn T.L.E. Reviewed: EC
 Scanned: EC

LADBS Certification Info
 Methane Testing License #10231
 Instrument: Landtec GEM 2000
 Instrument Accuracy: ±3% CH₄
 Landtec Equipment ID#: 018
 Manometer ID#: 023

Landtec GEM 2000 Calibration						
Time	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	N ₂ (%)	Barometric Pressure ("Hg)	
Calibration Standard	n/a	15	4	70	n/a	
Opening Calibration	<u>0524</u>	<u>15.2</u>	<u>4.4</u>	<u>69.4</u>	<u>28.31</u>	
Closing Calibration	<u>1325</u>	<u>14.7</u>	<u>4.2</u>	<u>70.8</u>	<u>28.30</u>	
Acceptable Range	n/a	13.5 - 16.5	2.5 - 5.5	55 - 85	n/a	

Point ID	Sample Time	Probe Depth (ft)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	N ₂ (%)	Barometric Pressure ("Hg)	Probe Pressure ("H ₂ O)	Field Notes
1	<u>SN-6-5</u>	<u>5</u>	<u>0.0</u>	<u>0.1</u>	<u>19.6</u>	<u>80.2</u>	<u>28.27</u>	<u>0.0</u>	
2	<u>SN-6-15</u>	<u>15</u>	<u>0.0</u>	<u>0.2</u>	<u>18.8</u>	<u>81.0</u>	<u>28.27</u>	<u>0.0</u>	
3	<u>SN-7-6</u>	<u>5</u>	<u>0.0</u>	<u>0.1</u>	<u>19.9</u>	<u>79.9</u>	<u>28.30</u>	<u>0.0</u>	
4	<u>SN-7-15</u>	<u>15</u>	<u>0.0</u>	<u>0.3</u>	<u>19.3</u>	<u>80.4</u>	<u>28.30</u>	<u>0.0</u>	
5									
6									
7									
8									
9									
10									

Site Notes (e.g. weather, visitors, scope deviations, health & safety issues, etc.):