

Community Air Sampling and Health Risk Screening Evaluation Report

Val Verde and Castaic Communities
Los Angeles County, California

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Prepared for:
County of Los Angeles

Prepared by:
Roux Associates, Inc.
100 N 1st Steet, Suite 403
Burbank, CA 91502

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Executive Summary

Roux Associates, Inc. (Roux) prepared this Community Air Sampling and Health Risk Screening Evaluation Report (Report) on behalf of the Los Angeles County (County) for the investigation of outdoor air quality and evaluation of potential health risks to the people living and working in the neighborhoods (Community) surrounding the Chiquita Canyon Landfill (Chiquita). In 2023, Chiquita began experiencing increased emissions of total reduced sulfur and sulfur oxides at levels in noncompliance with its Title V Permit. These increased sulfur levels appear to result from an elevated temperature landfill event at Chiquita. As a result, the South Coast Air Quality Management District has received more than 2,100 complaints from residents regarding odors emanating from Chiquita since May 2023 (primarily from residents of Val Verde and Castaic). This investigation was performed on behalf of the County to investigate the effect of increased sulfur compound emissions to the Community air quality, provide verification of air quality data collected concurrently by SCS, and evaluate the potential health risks to the Communities surrounding Chiquita.

From October 31, 2023 through December 16, 2023, Roux conducted independent air sampling and evaluation in the Community surrounding Chiquita. The sampling included the collection of 24-hour ambient air samples from multiple sites for volatile organic compound (VOC) analysis and the collection of discrete ambient air samples for sulfur compound analysis. Numerous VOCs were detected in the ambient air samples throughout the sampling period, but all the detected VOCs were below the Agency for Toxic Substances and Disease Registry (ATSDR)/Office of Environmental Health Hazard Assessment (OEHHA) acute screening levels, and the Association of Healthcare Internal Auditors (AHIA) odor detection thresholds.

The VOCs in Community ambient air are similar to ambient air in Burbank (closest AQMD long-term ambient air monitoring station) and the larger Los Angeles County air basin. As with other parts of the County, the ambient air in the Community exceeds the Department of Toxic Substances Control (DTSC) residential screening levels (SLs) for indoor air, which is being used as a health-protective threshold that represents breathing ambient air 100% of the time for 70-years. Based on such lifetime exposures, potential worst-case human health risk calculations associated with VOCs in Community ambient air suggest excess cancer rates above the one-in-a-million threshold used as to benchmark background risk. More specifically, two VOCs in Community ambient air, on their own, exceed the DTSC SLs for indoor air (benzene and carbon tetrachloride) and are the primary contributors to the potential long-term human health risk. The Community air quality and any potentially attributable health risks appears to be, at least primarily, the result of larger scale ambient air quality issues in Los Angeles County. While the data collected indicates that on some days there may be an incremental contribution of benzene above background levels to the ambient air that may originate from the Chiquita, the overall Community levels of benzene and carbon tetrachloride in ambient air are similar to the ambient air at the nearby background locations, the AQMD monitoring station in Burbank, and the larger Los Angeles County air basin.

Sulfur compounds were not detected in any of the ambient air samples collected. The ability to detect sulfur compounds was between being just above and just below the regulatory screening levels. For example, laboratory reporting limits varied between 0.025 ppm and 0.045 ppm for H₂S, which would not always have detected H₂S exceedances of the OEHHA acute one-hour REL and

CAAQS for hydrogen sulfide (H₂S) of 0.03 ppm. The type of discrete sampling and analysis is not capable of measuring H₂S exceedances of the OEHHA chronic REL is 0.007 ppm for H₂S. Additionally, many sulfur compounds (such as dimethyl sulfide) lacked established regulatory acute and chronic screening values to adequately assess the sufficiency of detection limits. As such, based on the air data collected, no health risk from sulfur compounds in ambient air has been identified, but also cannot be excluded. Nonetheless, sulfur compounds in ambient air may still result in odors that have temporary health effects. Roux's results are similar to the discrete sulfur compounds ambient air results reported by SCS.

SCS has also been operating continuous Community air monitoring for the sulfur compound H₂S that are more sensitive than the analytical laboratory reporting limits. SCS data suggests that Community ambient air levels for H₂S periodically exceed the CAAQS and OEHHA acute one-hour REL for H₂S of 0.03 ppm and the OEHHA chronic REL is 0.007 ppm for H₂S. H₂S can be an irritant to the eyes, nose, or throat, and can impact the neurological and respiratory systems. ASTDR notes the most common symptoms following exposure to odorants include headaches, nasal congestion, eye, nose and throat irritation, hoarseness/sore throat, cough, chest tightness, shortness of breath, wheezing, heart palpitations, nausea, drowsiness and mental depression.

In addition to the ambient air sampling, field staff noted odors at times during periods of sample collection. The highest frequency of odors observed by staff was at one of the background locations that was expected to be unaffected by Chiquita; thus, during this time odors issues were not unique to this Community adjacent to Chiquita. Odor complaint logs suggest that odors have been reoccurring in the Community. While there is not discrete air sample data that suggests the chemicals responsible for the odors are toxic, the development of symptoms following exposure to odorants below toxic levels has been well documented in scientific literature. Such symptoms vary based on an individual's sensitivity to odor, how long exposure lasts, age, state of health and susceptibility (young children, pregnant women, elderly).

Chiquita is implementing measures to mitigate landfill gas emissions into the Community as directed by multiple governmental agencies.

Based on our analysis, we recommend improvements to the Community monitoring efforts in order to Chiquita to better evaluate its potential air quality impacts to the Community:

- Chiquita should validate and maintain the calibration of the continuous H₂S monitoring network to ensure the data reported is quantitatively reliable since this data appears to be the most useful measure of tracking emissions of sulfur compounds and odors from the Chiquita facility.
- Chiquita should increase its benzene sampling frequency and lower its benzene reporting limit of 1.6 mg/m³ (0.5 ppb) to better assess potential benzene emissions from landfill gas emissions.
- Chiquita should include a network of wind direction/speed monitors throughout the sampling area to better understand and track local wind patterns.
- Chiquita should evaluate the benefits of expanding the network of continuous air monitors in the Community in order to get a more complete picture of the transport of emissions and extent and magnitude of impacts from Chiquita into the Community's ambient air. Using the continuous air monitors to identify the spatial and temporal dynamics of exceedances in the

OEHHA acute one-hour REL for H₂S and the OEHHA chronic REL in the Community ambient air can provide a basis for evaluating whether landfill emissions are being managed effectively.

1. Introduction

Roux Associates, Inc. (Roux) prepared this Community Air Sampling and Health Risk Screening Evaluation Report (Report) on behalf of the Los Angeles County (County) for the investigation of outdoor air quality and evaluation of potential health risks to the people living and working in the neighborhoods (Community) surrounding the Chiquita Canyon Landfill (Chiquita). The landfill is located at 29201 Henry Mayo Drive in Castaic, California (Figures 1 and 2). Due to an increase in health concerns and odor complaints from residents concurrent with the elevated temperature landfill (ETLF) emissions from Chiquita, the County of Los Angeles contracted Roux to investigate ambient/outdoor air conditions in the Community and evaluate the potential for human health risk from the increased odors from Chiquita into the Community's ambient air. Roux's evaluation included Community sampling and analysis of ambient air, review and analysis of historical and concurrent Community ambient air data collected by Chiquita's consultant, SCS Engineers (SCS), and a human health risk screening evaluation of all the available ambient air data. Ambient air samples were measured for volatile organic compounds (VOCs) and sulfur compounds and compared to applicable screening levels to provide a health-protective assessment of any potential health risks associated with the exposure to the increased emissions associated with ETLF emissions from Chiquita.

From October 31, 2023 through December 16, 2023, Roux conducted independent air sampling and evaluation in the Community surrounding Chiquita and at other more distant communities that were expected to be unaffected by Chiquita. The sampling included the regular collection of 24-hour ambient air samples for VOC analysis and the collection of discrete ambient air samples for sulfur compound analysis.

In addition to providing ambient data for an independent evaluation, the sampling locations and sampling frequency in this study allows the data collected to augment and assess potential spatial and temporal data gaps when compared to Chiquita's current Community air sampling program by SCS, which includes continuous air sampling and discrete air sampling.

1.1 Objectives

The Community air sampling investigation documented in this Report included the objectives as summarized below:

- Collect independent and supplemental ambient air data;
- Augment and assess potential spatial and temporal data gaps in the Community air sampling program by SCS; and,

- Conduct a Human Health Screening Evaluation (HHSE) and Odor Assessment evaluating potential short-term health effects¹ and long-term health risks² associated with the ETLF emissions from Chiquita.

1.2 Scope of Work

Ambient air samples were collected at seven locations throughout the Community and background air samples were collected at two locations outside the Community (Figure 3). The locations of the Community air samples were selected based on the areas with the most documented odor complaints³ as well as data verification for samples collected by SCS. The locations of the background air samples were selected in areas outside the odor complaints and expected to be unaffected by Chiquita. The protocols and procedures for the air sampling followed the October 2011, California Environmental Protection Agency (Cal/EPA) and DTSC Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance). The collected ambient air samples were analyzed for VOCs and sulfur compounds.

Beginning October 31, 2023 and ending December 16, 2023, the air sampling for VOCs occurred every-other-day over a period of seven weeks for a total of 23 sampling events and the air sampling for sulfur compounds occurred weekly over a period of seven weeks for a total of 8 sampling events. During each sampling event, 11 air samples were collected (unless noted in Section 3.5) for VOCs and sulfur compounds. These samples included seven Community air samples and one duplicate as well as two background air samples and one duplicate. The duplicate air samples were for quality assurance (QA) purposes, with a minimum of one duplicate sample collected per every ten samples (10%). For this Report, Roux collected one duplicate sample per sample type (i.e., Community air versus background air).

The 11 air samples for VOCs and sulfur compounds were collected at a height of 3 to 5 feet over a 24-hour period. The Vapor Intrusion Guidance states that a minimum of three ambient air samples should be collected with each indoor air sampling event; however, since all the air samples are technically ambient air samples (not indoor air samples) and due to the large number of sampling events, instead two background air samples were collected per day to establish the background air conditions.

For the VOC analyses, the Community air and background air samples were collected in individually certified 6-liter SUMMA® canisters with 24-hour flow controllers, labeled, logged on a chain of custody form, and transported to a California certified laboratory for analysis. The air samples collected (total of 228 air samples) were analyzed for VOCs via United States EPA (USEPA) Method TO-15 Selective Ion Monitoring (SIM). For the sulfur compound analyses, the Community air and background air samples were collected in 1-liter Tedlar® bags, labeled, logged on a chain of custody form, and transported to a California certified laboratory for analysis. The air

¹ Short-term health effects include health outcomes from acute exposures.

² Long-term health risks include increased risk of cancer or non-cancer disease from chronic exposure.

³ Chiquita Canyon Landfill, 2023. Odor Mitigation, Complaint Resolution, Accessed at: <https://chiquitacanyon.com/reports/complaint-resolution/>.

samples collected (total of 88 air samples) were analyzed for sulfur compounds via South Coast Air Quality Management District (SCAQMD) Method 307.91.

2. Background

2.1 Chiquita Canyon Landfill

Chiquita is privately owned and operated by Waste Connections, Inc. and has been in operation since 1972. It operates as a non-hazardous solid waste disposal facility, receiving municipal solid waste, residential and commercial waste, and construction/demolition debris. It is located to the south of Val Verde and to the southwest of Castaic (Figure 2). In 2023, Chiquita began experiencing increased emissions of total reduced sulfur and sulfur oxides at levels in noncompliance with its Title V Permit. These increased sulfur levels appear to result from an ETLF event at Chiquita. As a result, the SCAQMD has received more than 2,100 complaints from residents regarding odors emanating from Chiquita since May 2023 (primarily from residents of Val Verde and Castaic). While the nuisance odor complaints have been largely attributed to dimethyl sulfide (DMS), there is a concern about other potential landfill emission exposures, such as VOCs.

Chiquita retained a toxicologist, CTEH, to evaluate potential “short-and long-term health impacts, if any, associated with odor concerns.”⁴ CTEH proposed evaluation of continuous air monitoring and discrete air sampling performed by SCS as part of their monthly Community Air Monitoring Program (CAMP).

CalRecycle provided its technical expertise and assistance in determining the cause of the ETLF and odor emissions at Chiquita.⁵ During CalRecycle’s inspection at Chiquita they identified the following issues:

- Landfill cover integrity issues;
- Increased temperatures and pressures in the landfill gas control systems and waste mass;
- Oxygen intrusion above 5% by volume;
- Landfill gas temperatures over 170°F;
- Landfill subsurface temperatures over 195°F;
- Decreased methane production;
- Elevated carbon monoxide (CO) concentration above 1,000 parts per million by volume (ppmv);
- Unusual landfill settlement;
- Damaged gas wells;
- Poor gas well performance in and around the Reaction Settlement Area; and

⁴ CTEH, 2023. CTEH Human Health Risks and Environmental Impacts Workplan for the Lost Angeles County Department of Public Health on Behalf of Chiquita Canyon Landfill. August 31, 2023.

⁵ Los Angeles County LEA, 2023. Chiquita Canyon Landfill (SWIS No. 19-AA-0052) CalRecycle Review of the Ongoing Odor Incident at Chiquita Canyon Landfill.

- A heating/soldering event that is expanding in size and intensity.⁶

After CalRecycle conducted their inspection, they issued 15 corrective actions, which include but are not limited to the following:

- Repair cracks in the soil cover in and around the Reaction Settlement Area and any well showing signs of a reaction;
- Place and compact a minimum cover of 24 inches of 1 x10⁻⁶ low permeability soil in and around the Reaction Settlement Area and a radius of 30 feet of soil around any well with temperatures over 160°F or CO concentrations over 1,500 ppmv;
- Install well boots seals on all wells in and adjacent to the Reaction Settlement Area and any wells with temperatures over 160°F or CO concentrations over 1,500 ppmv;
- Replace all PVC wells that have been damaged, blocked, pinched, or that have gas temperatures over 145°F with steel wells;
- Install additional steel wells in the Reaction Settlement Area and other areas where the gas extraction temperature exceeds 170°F to capture the additional gas generated by the incident;
- Once additional gas extraction capacity is installed, remove all oxygen higher operating values (HOVs) for interior gas wells and operate gas extraction wells with less than 3 percent oxygen where feasible; and
- Use best management practices to keep oxygen below 5 percent in an interior well.⁷

On October 31, 2023, Chiquita provided a status update on the implementation of the corrective actions to SCAQMD, reporting that grading was underway and estimating that the placement of cover material will begin in mid-December, taking 8 to 12 weeks to complete.⁸ As of November 17, 2023, Chiquita has reportedly installed and connected 49 new vertical wells into the existing gas collection system. An additional 22 pumps were also installed in some of the vertical wells and 3,000 feet of semi-permanent vapor odor control was installed in the reaction area, with installation of the geosynthetic cover underway.⁹ Most recently Chiquita has been expanding its landfill gas wellfield by drilling new and replacement wells to help slow and stop the landfill reaction by removing the excess quantities of landfill gas and liquids being produced by the reaction. Additionally, Chiquita's has plans to install a geomembrane cap over a portion of the reaction area to further help reduce odors in the short term.¹⁰

Refer to Table 1 for a chronology of the activities and corrective actions that took place in 2023 at Chiquita.

⁶ Los Angeles County LEA, 2023. Chiquita Canyon Landfill (SWIS No. 19-AA-0052) CalRecycle Review of the Ongoing Odor Incident at Chiquita Canyon Landfill.

⁷ Los Angeles County LEA, 2023. Chiquita Canyon Landfill (SWIS No. 19-AA-0052) CalRecycle Review of the Ongoing Odor Incident at Chiquita Canyon Landfill.

⁸ Chiquita Canyon Landfill, 2023. Geomembrane Procurement and Installation Status Update, October.

⁹ Chiquita Canyon Landfill, 2023. Conditional Use Permit No. 2044-00042-(5), November 17.

¹⁰ Chiquita Canyon. New Well Drilling Activity. January 26, 2024.

2.2 Site Description

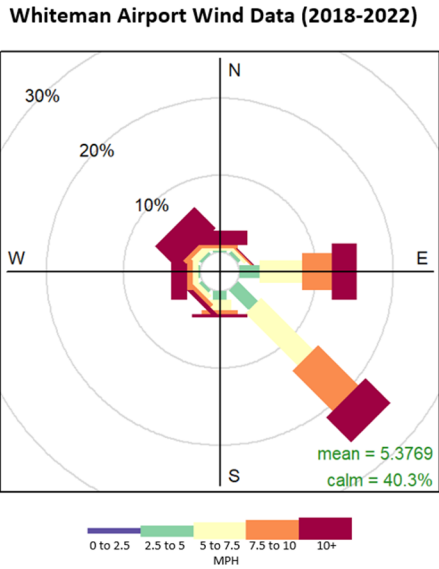
For the purposes of this Report, the Site includes the residential and commercial portions of Val Verde and Castaic approximately 0.25 to 2.5 miles to the north/northeast of Chiquita including the surrounding area bounded by the Interstate 5 (I-5) Freeway to the east and State Route 126 to the south (Figure 1 and Figure 2).

Val Verde and Castaic, California are unincorporated communities located in Santa Clarita Valley approximately 35 miles north of Los Angeles. The Communities are bounded to the north by Hillcrest Parkway, to the west by Chiquita Canyon Road, to the south by State Route 126, and to the east by I-5. The Site includes sampling locations along multiple public rights of way, including Roosevelt Avenue, Stageline Road, Quincy Street, Hasley Canyon Road, and Cascade Road in Castaic, and Hunstock Street, Lincoln Avenue, Silver Street, Hasley Canyon Road, and Stageline Road in Val Verde (Figure 3).

2.3 Prevailing Wind Direction

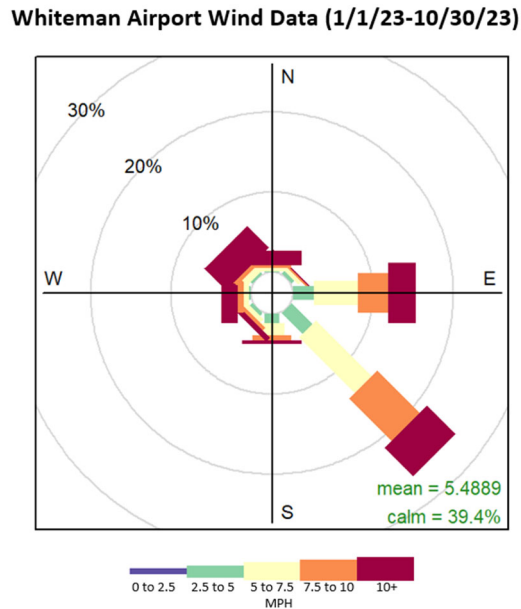
Weather patterns in Castaic, California, during the Roux sampling period (i.e., October 2023 through December 2023) are notably different from the rest of the year. Figure 4 shows wind data from nearby Whiteman Airport (the closest available weather station to the Community) for (1) 2018 through 2022; (2) January 1, 2023 through October 30, 2023; and (3) October 31, 2023 through December 16, 2023. During 2018 through 2022, winds are frequently calm (about 40% of the time), typically from the southeast and east, and average about 5 miles per hour. Winds from January 1 through October 30, 2023, were typical of overall yearly wind patterns. During the Roux sample period (October 31, 2023 through December 16, 2023), winds were calmer than during the rest of the year and more likely to be out of the north, northwest, and west. Generally, higher winds promote air dispersion, and therefore lower concentrations, but do allow contaminants to travel farther downwind. Therefore, the Roux sampling period may not reflect conditions that residents experienced earlier in the year.

Figure 4a. Prevailing Wind Directions Near Chiquita (Wind Data from Whiteman Airport, 2018-2022)



Frequency of counts by wind direction (%)

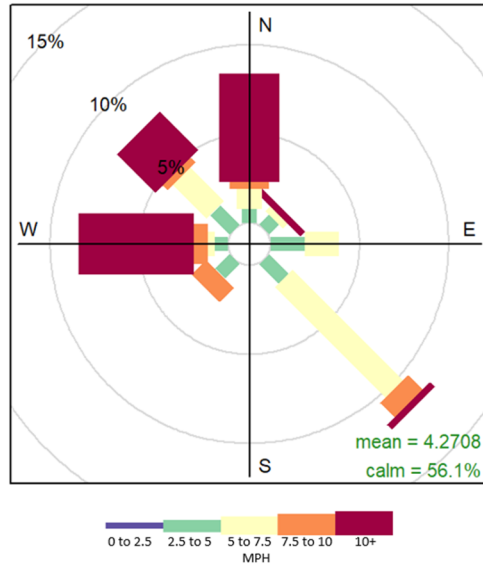
Figure 4b. Prevailing Wind Directions Near Chiquita (Wind Data from Whiteman Airport, January 1, 2023 through October 30, 2023)



Frequency of counts by wind direction (%)

Figure 4c. Prevailing Wind Directions Near Chiquita (Wind Data from Whiteman Airport, October 31, 2023 through December 16, 2023)

Whiteman Airport Wind Data (10/31/23-12/16/23)



Frequency of counts by wind direction (%)

An additional complication is that the topography of this area can result in local wind patterns within the canyon that deviate from regional wind directions and instead follow a path along local topography pathways. As such, the direction emissions from Chiquita are transported in ambient air may be different than what regional wind patterns would suggest.

3. Community Air Sampling Implementation

This investigation was performed on behalf of the County to investigate the effect of increased sulfur compound emissions to the Community air quality, provide verification of air quality data collected concurrently by SCS, and evaluate the potential health risks to the Communities surrounding Chiquita. The field activities were completed between October 30, 2023 and December 16, 2023. The work described in this Report was conducted under the direction of a California-registered Professional Civil Engineer.

3.1 Pre-Field Activities

No subsurface work was carried out during the implementation of this fieldwork; thus, no permits were required. Prior to sampling, Roux completed a reconnaissance around the sampling locations on October 30 to ensure appropriate selection of sampling locations in public lands/spaces such as sidewalks, public landscaped areas, and parks. Thus, no access agreement was necessary to perform sampling activities.

3.1.1 Health and Safety Plan

Prior to the start of field activities, Roux developed and implemented the Site-specific Health and Safety Plan (HASP) dated October 27, 2023, to ensure worker safety (Attachment A). The fieldwork associated with the investigation was performed in accordance with the Site-specific HASP. The HASP identified the potential physical and chemical hazards at the Site that could present a potential threat to workers during the authorized scope of work. The HASP also identified best practices related to the reduction of risk due to the COVID-19 virus. Field workers acknowledged their familiarity with the safety procedures and indicated their intent to follow the HASP by signing the HASP after the tailgate safety meeting, which took place at the beginning of each field day.

3.2 Sampling

Between October 31, 2023 and December 16, 2023, Roux collected VOC air samples at the Site every-other-day over a period of seven weeks, for a total of 23 sampling events and the air sampling for sulfur compounds occurred weekly over a period of seven weeks for a total of 8 sampling events. VOC samples were collected via individually certified 6-liter SUMMA® canisters with 24-hour flow controllers while sulfur compound samples were collected via 1-liter Tedlar® bags. Samples were collected at seven Community air sample locations throughout the Site and two background locations outside of the Site for a total of nine locations (Figure 3).

3.2.1 Areas of Investigation

Community Air

The Community Air Sampling was conducted at seven locations in the public right of way (as shown in Figure 3).

Areas of Investigation – Community Air Sampling		
Location ID	Nearest Street Address	Approximate Coordinates
ROUX01	28541 Roosevelt Ave, Castaic, CA	34.439544, -118.654375
ROUX02	29707 Hunstock St, Val Verde, CA (across the street)	34.446733, -118.650767
ROUX03	28812 Lincoln Ave, Val Verde, CA (NW corner of Taylor St & Lincoln Ave)	34.443078, -118.655764
ROUX04	29716 Silver Street, Val Verde, CA	34.448022, -118.654208
ROUX05	29025 Avenue Paine, Valencia, CA (Lief Labs)	34.448244, -118.6373
ROUX06	27959 Stageline Road, Castaic, CA	34.448289, -118.622867
ROUX07	28700 Quincy St, Castaic, CA (SE corner of Hasley Canyon Park)	34.451594, -118.619028

Background Air

The background air portion of the study was conducted at two locations which, following initial Site reconnaissance (Figure 3). These locations were selected as they were outside the area where odor complaints were documented.

Areas of Investigation – Background Air Sampling		
Location ID	Nearest Street Address	Approximate Coordinates
ROUXB01	30000 Hasley Canyon Road, Castaic, CA (Hasley Canyon Mobile Estates, across the street)	34.461947, -118.659228
ROUXB02	28005 Cascade Rd, Castaic, CA (across the street, on fence)	34.470867, -118.622739

3.2.2 Sampling

VOCs

Roux collected a total of 228 ambient/outdoor air samples (including field duplicates). Samples were collected in individually certified 6-liter SUMMA® canisters with 24-hour flow controllers at a height of approximately 3 to 5 feet above the ground at locations in the public right of way. The SUMMA® canisters were started at a pressure of approximately negative 30 inches of mercury and ended at a pressure of approximately negative 5 inches of mercury.

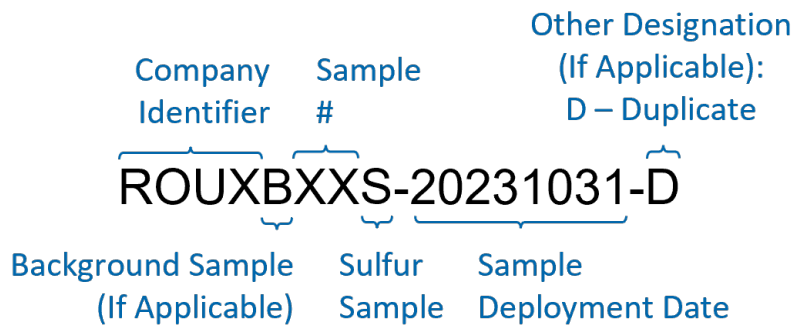
Samples were labeled, logged on a chain of custody form, and transported to a California certified laboratory, Pace Analytical Environmental Sciences, for analysis. The samples were analyzed for VOCs via USEPA Method TO-15 SIM.

Sulfur Compounds

Roux collected a total of 88 ambient/outdoor air samples (including field duplicates). Samples were collected in 1-liter Tedlar® bags, labeled, logged on a chain of custody form, and transported to a California certified laboratory for analysis, AtmAA, for analysis. The samples were analyzed for sulfur compounds via SCAQMD Method 307.91.

3.3 Sample Identification

Samples collected were designated with a unique identifier using the following format:



The above example represents a duplicate background sulfur compound air sample collected on October 31, 2023.

3.4 Field Sampling Quality Control

Field quality assurance/quality control (QA/QC) samples were collected during the investigation to assess whether reported concentrations of chemicals identified through analytical testing were of acceptable quality. Roux collected at least one duplicate sample per sample type for QA/QC purposes (i.e., Community air versus background air) and one duplicate sample was collected per every ten samples (10%). These samples included seven Community air samples and one duplicate, as well as two background air samples and one duplicate (for a total of 11 ambient air samples). Results from the field duplicates can be found in Table 2 and discussed further in Section 4.2.

3.5 Field Observations

Throughout Roux's investigation field staff noted whenever an odor was observed during air sampling activities. The location of the detected odor and its strength are compiled in Table 3; all odors observed were of a "garbage-like nature". Additionally, the following observations or deviations from the anticipated scope of work were noted during the investigation:

- *Stolen SUMMA® Cannisters:* On November 27, 2023, two canisters were stolen at locations ROUX02 and ROUX03. On December 15, 2023, one cannister was stolen at ROUX03. Therefore, no VOC data is available for the following samples: ROUX02-20231127; ROUX03-20231127; and ROUX03-20231215. Based on the large number of samples that were collected throughout the duration of fieldwork, the stolen SUMMA® cannisters and associated missing data are not anticipated to significantly impact the reliability of the data set as a whole.
- *SUMMA® Cannister Impacted by a Sprinkler:* On November 6, 2023, a sprinkler system sprayed one of the SUMMA® cannisters at location ROUX07. It appears that the sprinkler directly impacted the flow controller and stopped the cannister from filling properly, as a result the final pressure recorded for sample ROUX07-20231106 on the cannister was negative 16 inches of mercury (instead of the target of approximately negative 5 inches of mercury). The partially filled SUMMA® cannister had to be diluted by the laboratory, which resulted in the laboratory adding the flag "A01" to sample, because the detection and quantitation limits were raised due to the dilution. However, the detection and quantitation limits were low enough so that the data was usable. Data from this sample has been included in the analysis and the dilution of the sample is not expected to significantly impact the reliability of the data set as a whole.
- *Zero Vacuum SUMMA® Cannisters:* On November 27, 2023, the SUMMA® cannister at ROUX01 reached a vacuum of zero for sample ROUX01-20231127. On December 15, 2023, the SUMMA® cannister at ROUX04 reached a vacuum of zero for sample ROUX04-20231215. SUMMA® cannisters reaching zero vacuum is generally a result of the flow controller filling the cannister at a faster speed than expected. The data from these samples has been included in the analysis as they were generally consistent with the rest of the data set. As such, the samples that reached zero vacuum are not expected to significantly impact the reliability of the data set as a whole.

4. Roux Ambient/Outdoor Air Results

Ambient/outdoor air results were evaluated in the context of the following health-protective screening levels (SLs) and odor thresholds, where applicable:

- DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Notes 3 and 5 SLs for residential indoor air;
- Agency for Toxic Substances and Disease Registry (ATSDR) acute screening levels for residential air;
- California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) acute screening levels for residential air;
- Association of Healthcare Internal Auditors (AHIA) odor detection threshold; and
- California Ambient Air Quality Standard (CAAQS).

The following sub-sections summarize the laboratory analytical results of the ambient/outdoor air samples collected by Roux from October 31, 2023 through December 16, 2023. Full copies of the analytical laboratory reports are provided in Appendix B.

4.1 VOCs in Ambient/Outdoor Air

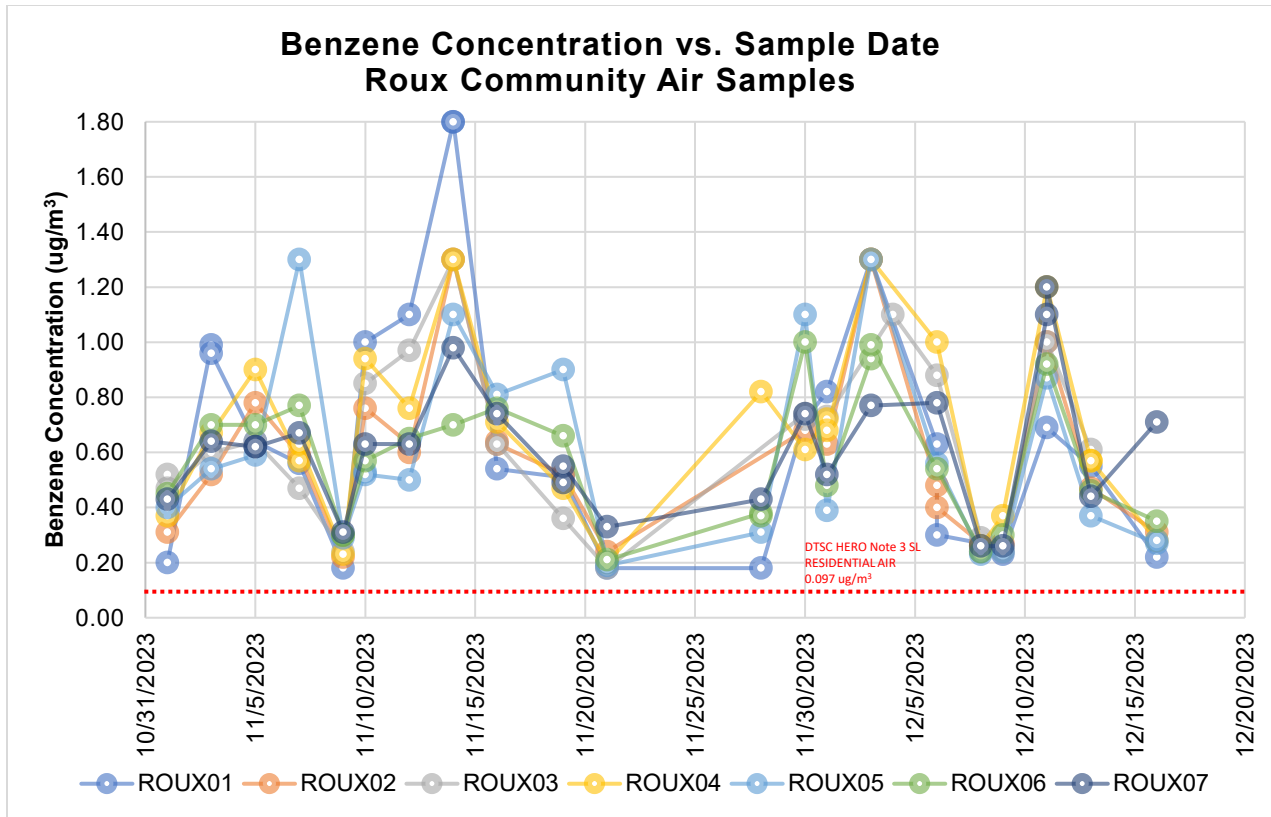
Community Air Samples

A total of 166 Community air samples (including field duplicates) were collected and analyzed for VOCs using USEPA Method TO-15 SIM. A total of 15 VOC analytes were detected above the laboratory practical quantitation limit (PQL) in one or more of the Community air samples: 1,1,2-trichloro-1,2,2-trifluoroethane; 1,1-difluoroethane; 1,2-dichloroethane; 1,4-dichlorobenzene; benzene; carbon tetrachloride; chloroform; dichlorodifluoromethane; ethylbenzene; o-xylene; p- & m-xylenes; tetrachloroethene; toluene; total xylenes; and trichlorofluoromethane (Tables 4 through 6; Figure 5). None of the VOCs detected in the Community air samples exceeded any of their respective ATSDR/OEHHA acute screening levels (Table 5) or AHIA odor thresholds (Table 6) for residential air.

Two of the 15 analytes detected, benzene and carbon tetrachloride, were reported at concentrations that exceeded their corresponding DTSC SLs for residential indoor air (Table 4). A summary of these detections is presented below.

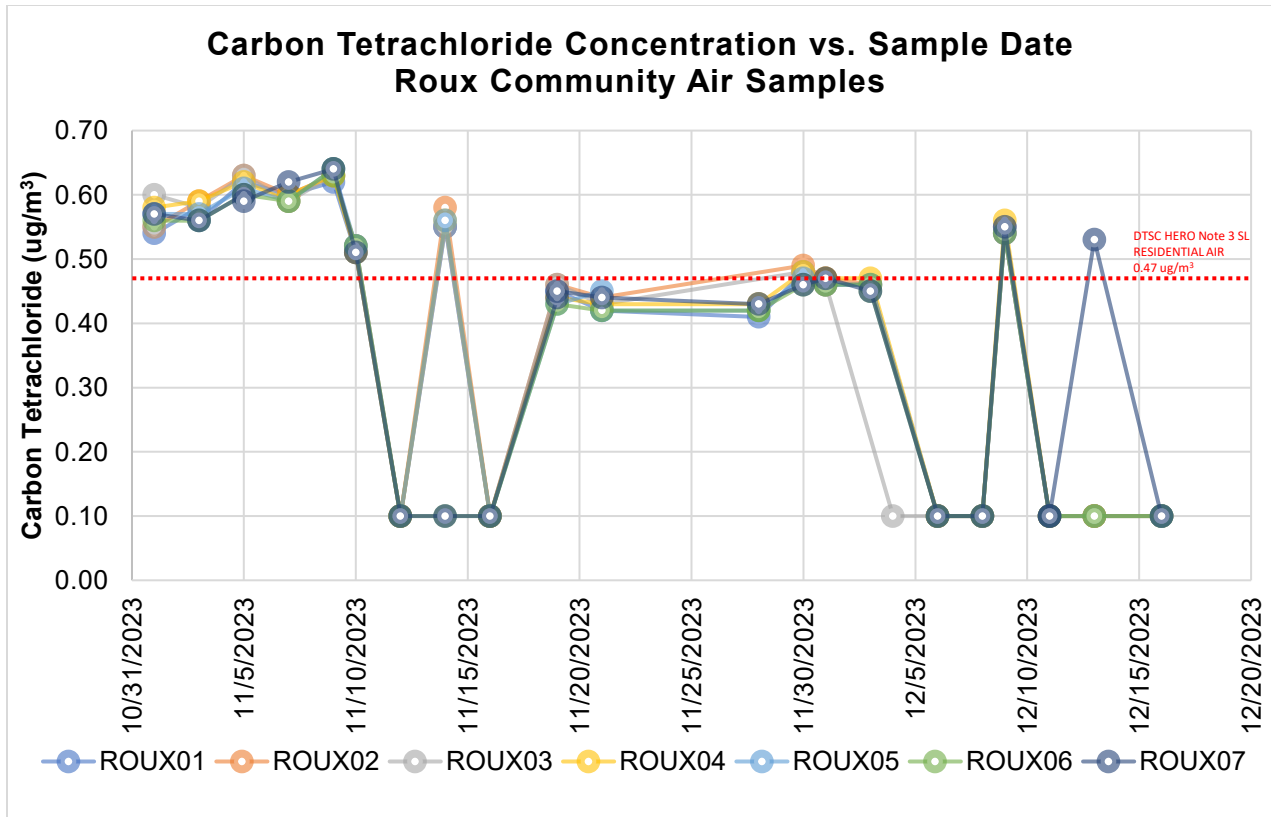
- **Benzene** was detected in exceedance of the laboratory practical quantitation limit (PQL) in 166 of the Community air samples at concentrations ranging from 0.18 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to $1.8 \mu\text{g}/\text{m}^3$, with an average concentration¹¹ of $0.62 \mu\text{g}/\text{m}^3$. All 166 detections exceeded the DTSC HERO HHRA Note 3 residential SLs for indoor air of $0.097 \mu\text{g}/\text{m}^3$.

¹¹ Average is based on detected values and half the value of the reporting limit where results were non-detect.



- Carbon tetrachloride** was detected in exceedance of the laboratory PQL in 108 of the Community air samples at concentrations ranging from 0.41 $\mu\text{g}/\text{m}^3$ to 0.64 $\mu\text{g}/\text{m}^3$, with an average concentration¹² of 0.38 $\mu\text{g}/\text{m}^3$. Of the 108 detections, 68 exceeded the DTSC HERO HHRA Note 3 SLs for indoor air of 0.47 $\mu\text{g}/\text{m}^3$.

¹² Average is based on detected values and half the value of the reporting limit where results were non-detect.

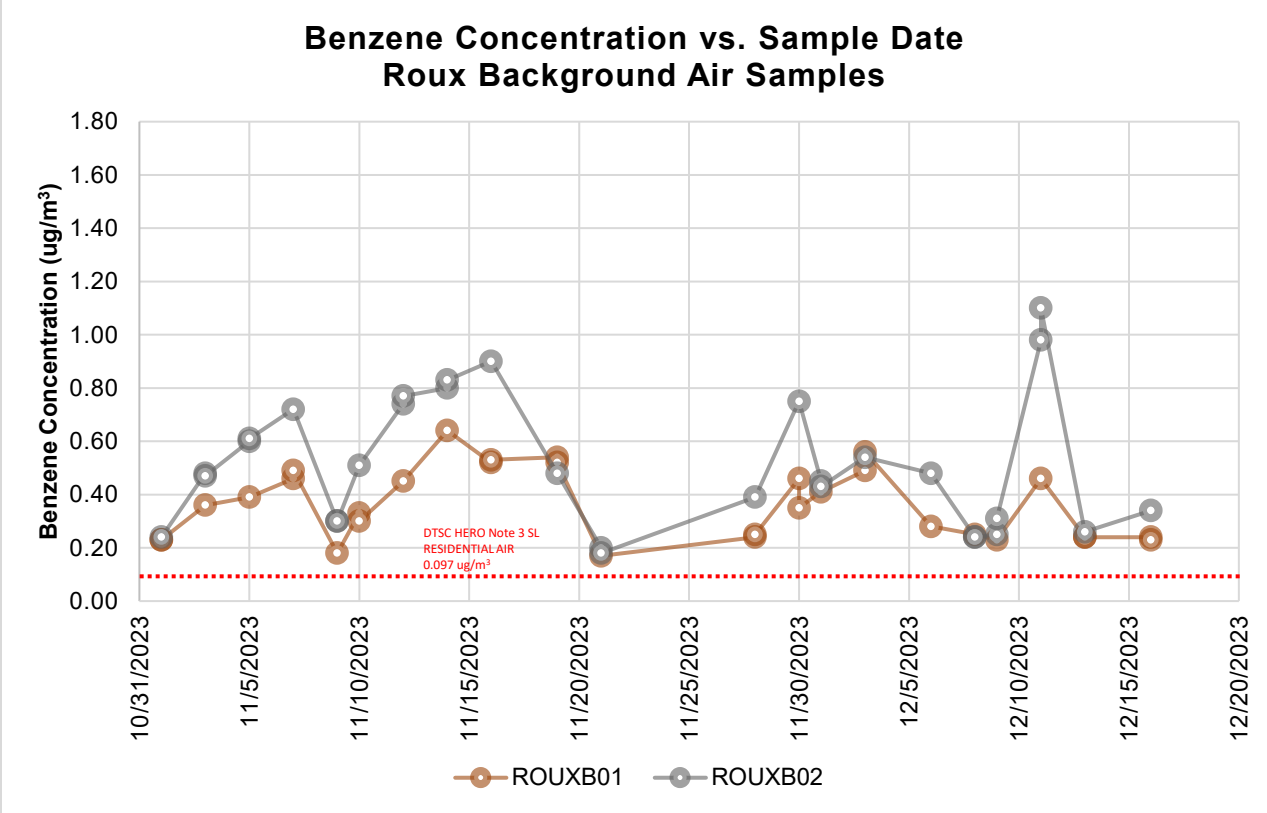


Background Air Samples

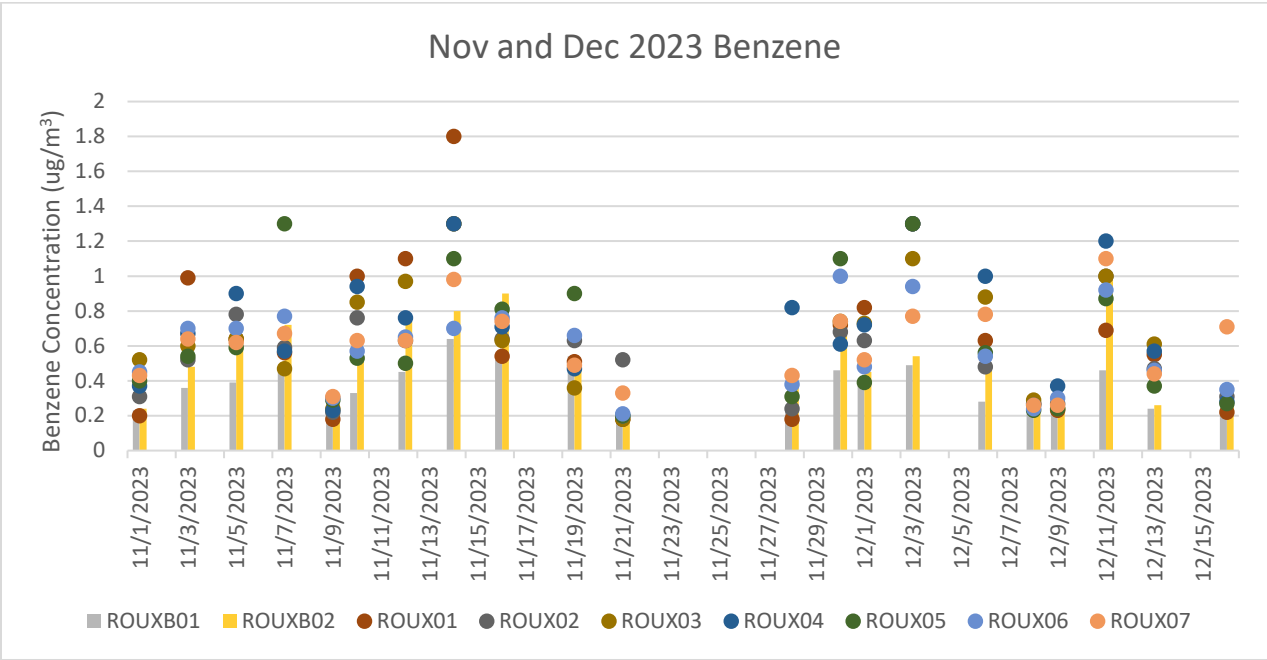
A total of 62 background air samples (including field duplicates) were collected and analyzed for VOCs using USEPA Method TO-15 SIM. A total of 13 VOC analytes were detected above the laboratory PQL in one or more of the background air samples: 1,1,2-trichloro-1,2,2-trifluoroethane; 1,2-dichloroethane; benzene; carbon tetrachloride; chloroform; dichlorodifluoromethane; ethylbenzene; o-xylene; p- & m-xylenes; tetrachloroethene; toluene; total xylenes; and trichlorofluoromethane (Tables 4 through 6; Figure 5). None of the VOCs detected in the background air samples exceeded any of their respective acute ATSDR/OEHHA screening levels (Table 5) or AHIA odor thresholds (Table 6) for residential air.

Two of the 13 analytes detected, benzene and carbon tetrachloride, were reported at concentrations that exceeded their corresponding DTSC SLs for residential indoor air (Table 4). A summary of these detections is presented below.

- Benzene** was detected in exceedance of the laboratory PQL in 62 of the background air samples at concentrations ranging from 0.17 $\mu\text{g}/\text{m}^3$ to 1.1 $\mu\text{g}/\text{m}^3$, with an average concentration of 0.44 $\mu\text{g}/\text{m}^3$. The Community air samples has an average of 0.62 $\mu\text{g}/\text{m}^3$. All 62 detections exceeded the DTSC HERO HHRA Note 3 residential screening levels (SLs) for indoor air of 0.097 $\mu\text{g}/\text{m}^3$.

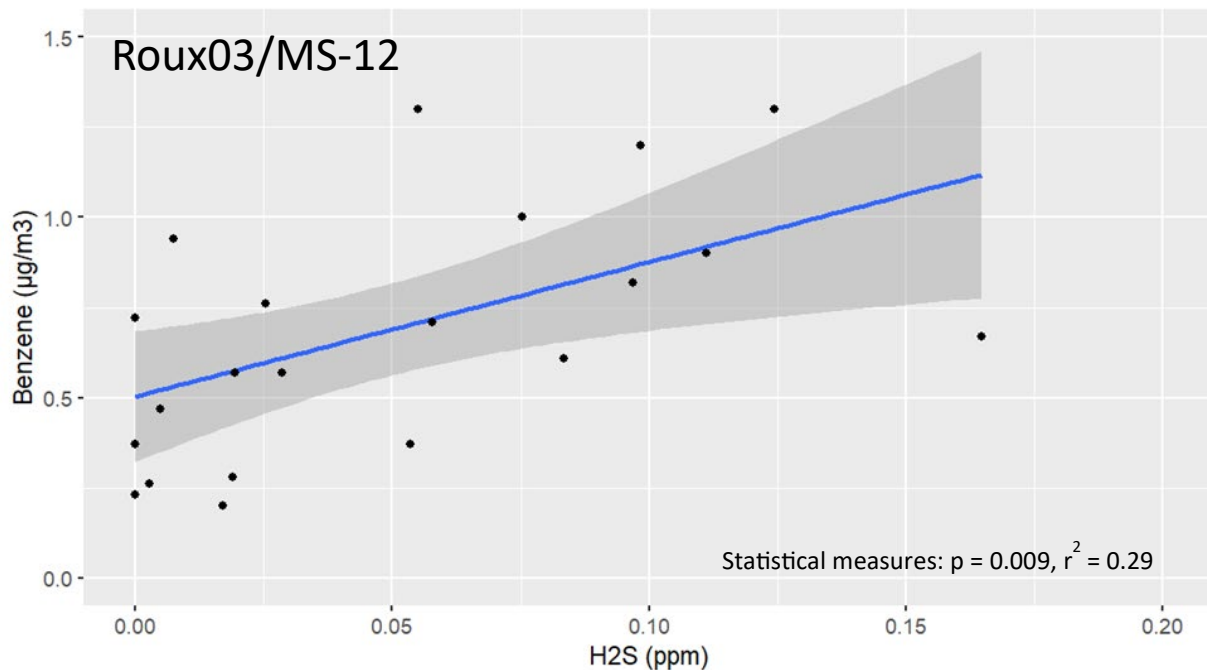


On some days, benzene concentrations measured in Community air (shown as dots in graph below) appear to be incrementally greater than what was observed on the same day in background locations (ROUXB01 and ROUXB02 – shown as bars in the graph below).

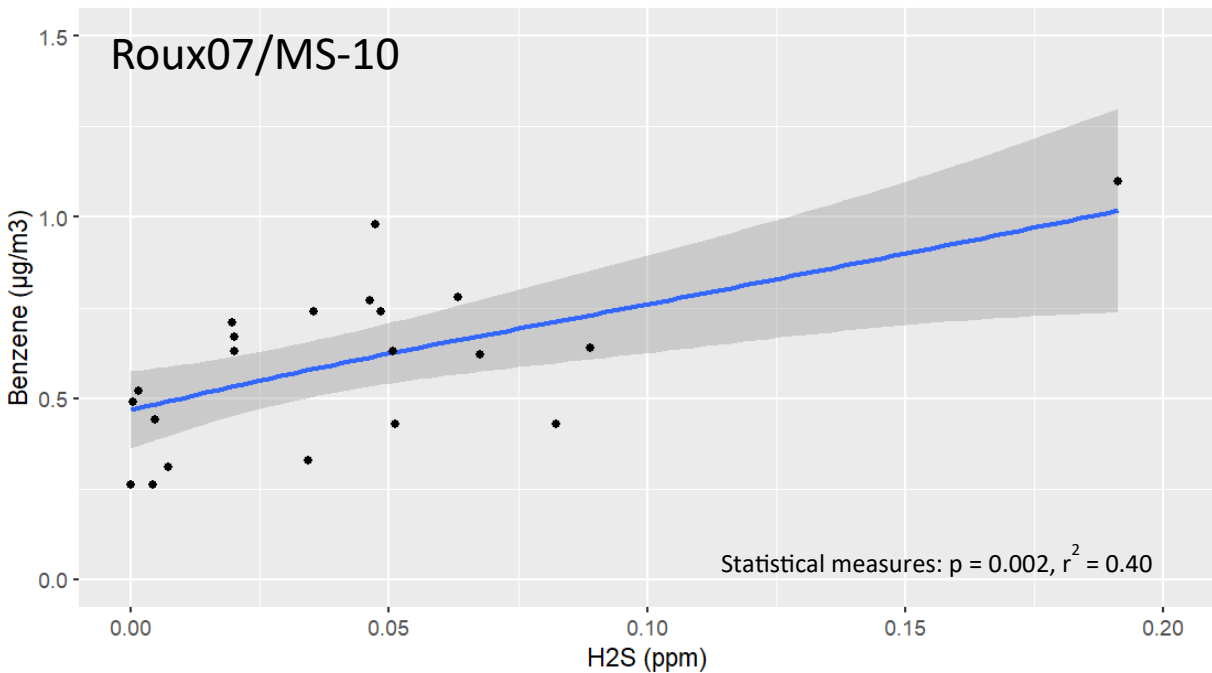


In order to evaluate whether these observation of incrementally greater benzene exceedances in the Community air samples could originate form Chiquita, the real-time hydrogen sulfide data collected by Chiquita (discussed below in Section 5) at two locations where Roux also collected samples (ROUX03/MS-12; ROUX07/MS-10) was compared since both benzene and H₂S are landfill gas emissions from Chiquita. Roux averaged the real-time hydrogen sulfide data to daily averages so that the data on the same day could be compared with Roux’s analytical benzene data collected over a 24-hours.

At ROUX03/MS-12, the Pearson correlation coefficient between 24-hour benzene concentrations and averaged daily H₂S concentrations was 0.56. A linear regression revealed that this relationship was statistically significant: ($p = 0.009$, $R^2 = 0.29$, at $\alpha=0.05$). The intercept for this correlation was $0.50 \mu\text{g}/\text{m}^3$ (95% CI: 0.33-0.67), which is the expected benzene concentration when H₂S concentrations are zero (if there were no H₂S emissions from Chiquita).

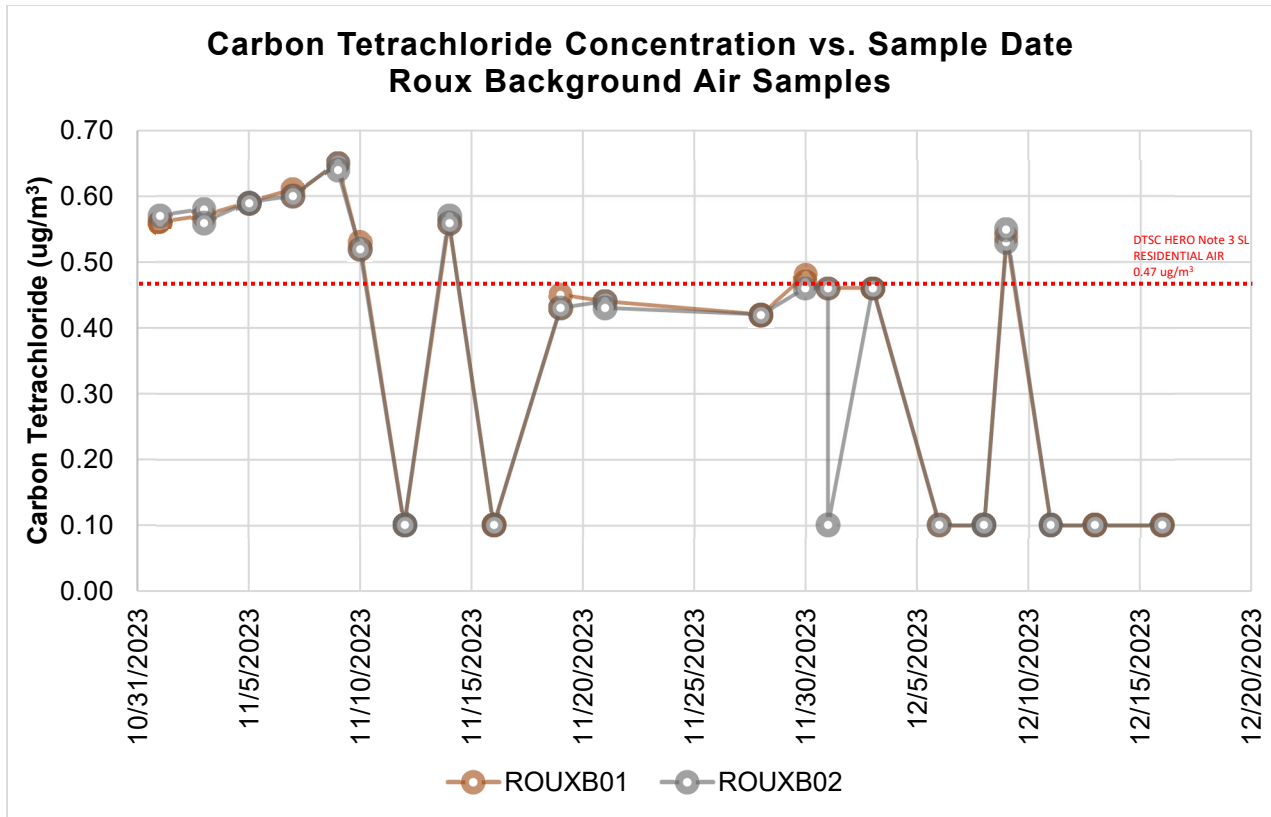


At ROUX07/MS-10, the Pearson correlation coefficient between 24-hour benzene concentrations and averaged daily hydrogen sulfide concentrations was 0.63. A simple linear regression revealed that this relationship was statistically significant ($p = 0.002$, $R^2 = 0.40$, at $\alpha=0.05$). The intercept for this correlation was $0.46 \mu\text{g}/\text{m}^3$ (95% CI: $0.35\text{-}0.56 \mu\text{g}/\text{m}^3$), which is the expected benzene concentration when H₂S concentrations are zero (if there were no H₂S emissions from Chiquita).



These results suggest background benzene concentrations in the Community average approximately 0.5 mg/m³ with a typical range of approximately 0.3 mg/m³ - 0.7 mg/m³ consistent with uncertainty. Days where the Community benzene air concentrations are observed to significantly exceed background benzene air concentrations may represent an incremental contribution of benzene resulting from Chiquita landfill gas emissions.

- **Carbon tetrachloride** was detected in exceedance of the laboratory PQL in 41 of the background air samples at concentrations ranging from 0.42 µg/m³ to 0.65 µg/m³, with an average concentration of 0.38 µg/m³. This average was the same as observed in the Community samples. Of the 41 detections, 25 exceeded the DTSC HERO HHRA Note 3 residential screening levels (SLs) for indoor air of 0.47 µg/m³.



Regional Air Quality

The SCAQMD conducts specialized measurement and analysis studies to address specific air quality issues within Southern California, which includes health studies of the effects of ambient air pollutants on health.¹³ In 2021, the Multiple Air Toxics Exposure Study (MATES V) was completed, the purpose of the MATES V fixed site monitoring was to characterize long-term regional air toxics levels in residential and commercial areas.¹⁴ There are 10 fixed site monitoring points as part of MATES V, bounded by the Burbank to the north, Rubidoux to the east, Long Beach to the south, and West Long Beach to the west – these 10 monitoring points make up the greater Los Angeles Basin. Data (that was collected from 2018 through 2019 [the most recent data]) from this study was used to determine the regional ambient air concentrations of benzene and carbon tetrachloride within the Los Angeles Basin.^{15,16} The Burbank MATES V monitoring station is the closest station to the Community.

Based on the 2018 through 2019 data from MATES V, the average benzene concentration was 0.69 $\mu\text{g}/\text{m}^3$ for Burbank, exceeding the HERO HHRA Note 3 SL of 0.097 $\mu\text{g}/\text{m}^3$. Based on the 2018

¹³ SCAQMD, 2023. Air Quality Studies, Accessed at: <https://www.aqmd.gov/home/air-quality/air-quality-studies>.

¹⁴ SCAQMD, 2023. MATES V Multiple Air Toxics Exposure Study, Accessed at: <https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v>.

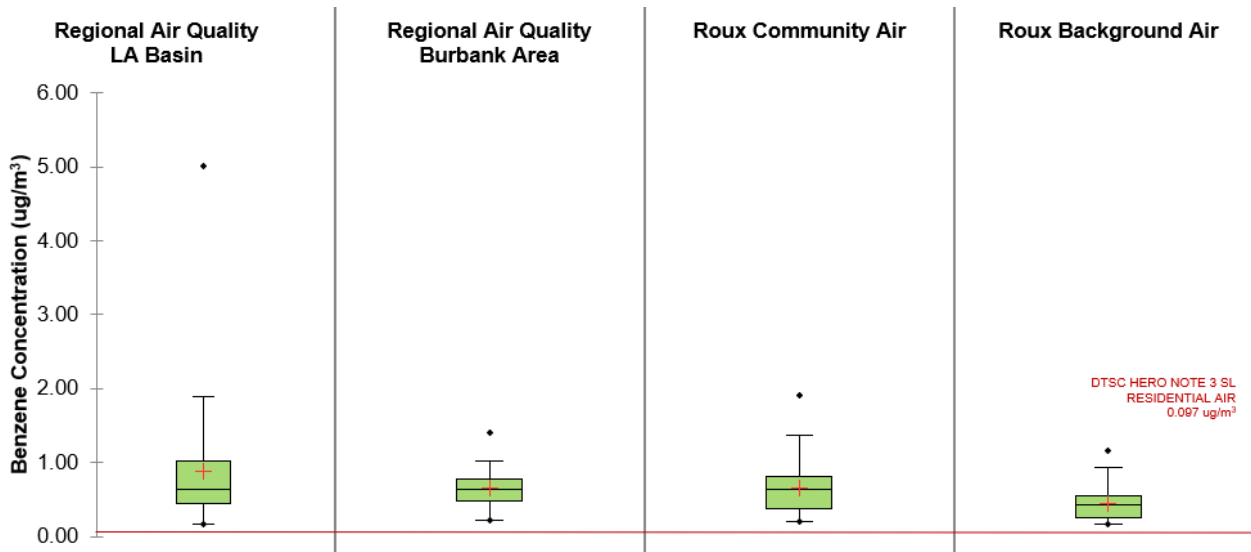
¹⁵ SCAQMD, 2021. MATES V Air Monitoring Data Dashboard. Accessed at: <https://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v/mates-v-air-monitoring-dashboard>.

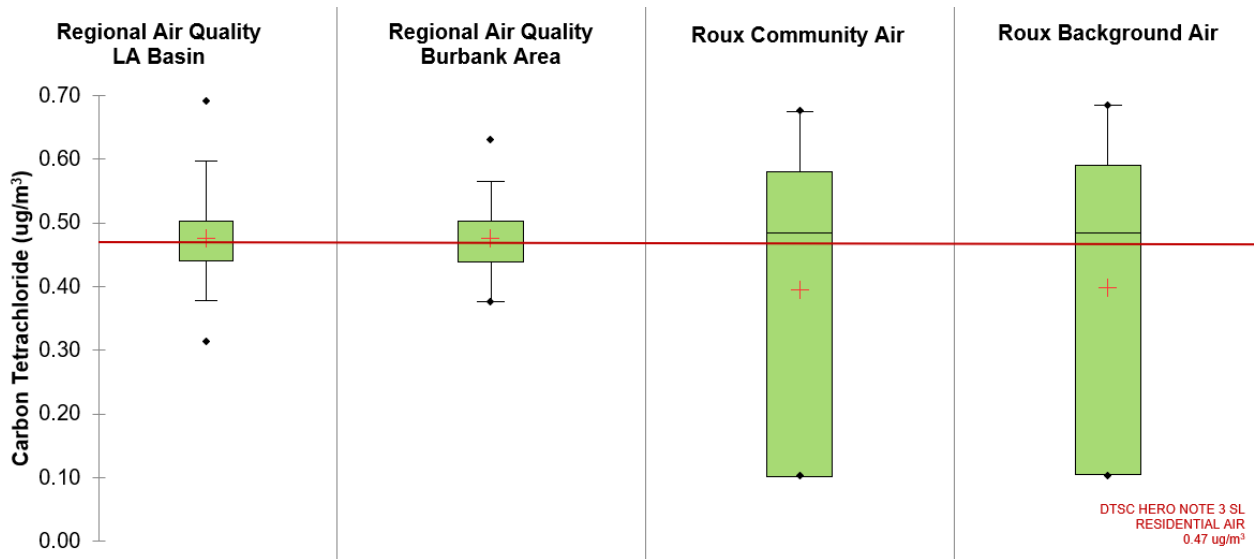
¹⁶ Note, for the 2018 through 2019 data, only nine fixed monitoring points have data for benzene and carbon tetrachloride. There was not enough samples collected in Anaheim, so that monitoring point is not included.

through 2019 data from MATES V, the average carbon tetrachloride concentration was 0.48 $\mu\text{g}/\text{m}^3$ for Burbank, exceeding the HERO HHRA Note 3 SL of 0.47 $\mu\text{g}/\text{m}^3$.

Based on the 2018 through 2019 data from MATES V, the average benzene concentration was 0.88 $\mu\text{g}/\text{m}^3$ for the Los Angeles Basin, exceeding the HERO HHRA Note 3 SL of 0.097 $\mu\text{g}/\text{m}^3$. Based on the 2018 through 2019 data from MATES V, the average carbon tetrachloride concentration was 0.47 $\mu\text{g}/\text{m}^3$ for the Los Angeles Basin, the same as the HERO HHRA Note 3 SL of 0.47 $\mu\text{g}/\text{m}^3$.

Below are a series of graphs comparing the regional air quality data to the Community air and background air samples collected by Roux for both benzene and carbon tetrachloride. When comparing the Community air and background air samples collected by Roux, the average Community ambient air concentrations for benzene and carbon tetrachloride are lower than the regional air quality within the Los Angeles Basin, and comparable to concentrations observed in Burbank: the average Community concentration for benzene is 0.62 $\mu\text{g}/\text{m}^3$ and for carbon tetrachloride is 0.38 $\mu\text{g}/\text{m}^3$ and the average background concentration for benzene is 0.44 $\mu\text{g}/\text{m}^3$ and for carbon tetrachloride is 0.38 $\mu\text{g}/\text{m}^3$.





4.2 Sulfur in Ambient/Outdoor Air

Community Air Samples

A total of 64 Community air samples were collected and analyzed for sulfur compounds using SCAQMD 307.91. None of the analyzed sulfur compounds were detected above their respective laboratory reporting limits throughout the ambient air sampling investigation; however, at times, laboratory reporting limits were elevated (Tables 4 through 6; Figure 6) relative to chronic and acute OEHHA RELs and odor thresholds. For example, the OEHHA acute one-hour REL and CAAQS for hydrogen sulfide (H₂S) is 0.03 ppm and the OEHHA chronic REL is 0.007 ppm for H₂S; however, laboratory reporting limits varied between 0.025 ppm and 0.045 ppm for H₂S.

Based on Roux's field documentation, the Community air sampling locations with the most frequent observation of odors were at locations ROUX01, ROUX02, and ROUX05. At locations ROUX01 and ROUX02, odors were noted six times. At location ROUX05, odors were noted seven times. Additionally, the dates with the most odors observed at multiple locations were on November 13, 2023 and December 12, 2023, with stronger odors observed on December 12, 2023 – which triggered the collection of an additional grab-air sample for sulfur compound analysis. See Table 3 for Roux's odor observations.

Background Air Samples

A total of 24 background air samples were collected and analyzed for sulfur compounds using SCAQMD 307.91. None of the analyzed sulfur compounds were detected above their respective laboratory reporting limits throughout the ambient air sampling investigation; however, at times, laboratory reporting limits were elevated (Tables 4 through 6; Figure 6) relative to chronic and acute OEHHA RELs and odor thresholds similar to the Community air samples (see discussion above).

During the field activities Roux documented odors most frequently at one of the background air sampling locations (ROUXB01), despite being located outside of the areas where air complaints were documented. At location ROUXB01, Roux noted odors 22 times. See Table 3 for Roux's odor observations.

4.3 VOCs QA/QC Results

Community Air Samples

During Roux's air sampling activities, the relative percent differences (RPDs) between the primary Community air sample and the duplicate Community air sample were generally less than 30% (Table 2). However, certain analytes (less than 5% of the total analyses [30 out of 638]) had RPDs greater than 30%. Generally, these increased RPDs were observed from the following VOCs: 1,1-difluoroethane; 1,4-dichlorobenzene; benzene; chloroform; ethylbenzene; o-xylene; p- & m-xylene; tetrachloroethene; toluene; and total xylene. Of the analyses with the increased RPDs, 5 of the 30 analyses came from pairings where either the primary sample or the duplicate sample had one sample below the PQL – but not both. Due to the limited number of samples that exceeded the RPD of 30% (less than 5% of samples), Roux does not anticipate these results to impact the reliability data.

Background Air Samples

During Roux's air sampling activities, the RPDs between the primary background air sample and the duplicate background air sample were generally less than 30% (Table 2). However, certain analytes (less than 8% of the total analyses [43 out of 579]) had RPDs greater than 30%. Generally, these increased RPDs were observed from the following VOCs: 1,1-difluoroethane; carbon tetrachloride; chloroform; ethylbenzene; o-xylene; p- & m-xylene; tetrachloroethene; toluene; and total xylene. Of the analyses with the increased RPDs, 6 of the 43 analyses came from pairings where either the primary sample or the duplicate sample had one sample below the PQL – but not both. Due to the limited number of samples that exceeded the RPD of 30% (less than 8% of samples), Roux does not anticipate these results to impact the reliability of the data.

4.4 Sulfur QA/QC Results

Community Air Samples

During Roux's air sampling activities, the RPDs between the parent Community air sample and the duplicate Community air sample were 0% - as the samples analyzed were all below their respective laboratory reporting limits.

Background Air Samples

During Roux's air sampling activities, the RPDs between the parent background air sample and the duplicate background air sample were 0% - as the samples analyzed were all below their respective laboratory reporting limits.

5. SCS Ambient/Outdoor Air Results

SCS, on behalf of Chiquita, has been performing CAMP in the Community via the 2019 Community Air Monitoring Plan. The CAMP has 12 ambient air monitoring stations with 7 stations located throughout the Community (MS-06 through MS-12) and 5 stations located around the perimeter of Chiquita (MS-01 through MS-05; Figure 3). The CAMP was fully implemented in September 2022 and consists of quarterly air monitoring reporting compiled from continuous air monitoring and monthly discrete sampling. Continuous air monitoring is conducted at all 12 monitoring stations for hydrogen sulfide (H₂S). On a monthly basis a total of five discrete air samples are collected (three from the Community and two from around Chiquita, with the locations rotating) and analyzed for SCAQMD Rule 1150.1 Toxic Air Contaminant List – which consists of VOCs and H₂S.^{17,18}

Due to the increased number of odor complaints from residents in the Community, the Los Angeles County DPH issued a notice to Chiquita in July 2023 that requested that Chiquita take the additional “... actions to mitigate the health impacts of the odor nuisance and remedy the cause of the nuisance.”¹⁹ In response to the County letter, Chiquita recommended expanding the CAMP²⁰ to include enhanced continuous monitoring as well as weekly sampling (instead of monthly) starting in August 2023.²¹ The weekly sampling includes discrete grab samples at all 12 existing air monitoring stations (MS-01 through MS-12) for an expanded list of VOCs using USEPA Method TO-15 and sulfur compounds via SCAQMD Method 307.91. In addition to the grab samples, 24-hour ambient air weekly samples will be collected at seven monitoring stations (MS-06 through MS-12) for VOCs and three new locations (S Chiquito Canyon Road, S End of Lincoln, and SCV) were added for sulfur compound analysis throughout the Community (Figure 3). The enhanced continuous monitoring adds benzene, toluene, ethylbenzene, and xylenes (BTEX) as well as total reduced sulfur (TRS) at stations MS-04 (at Chiquita) and MS-12 (in the Community) to the suite of existing parameters.²²

The following sub-sections provide a summary of the air data collected by SCS in the Community surrounding Chiquita (MS06 through MS12, S Chiquito Canyon Road, S End of Lincoln, and SCV) from August 2022 through December 2023. The data evaluated by Roux included benzene, carbon tetrachloride, and H₂S. These analytes were selected as both benzene and carbon tetrachloride exceeded their respective DTSC HERO Note 3 residential SLs for indoor air in the Roux ambient/outdoor air samples and H₂S is indicative of odors.

5.1 Historical and Concurrent Data Review

The following is a summary of the historic air data collected by SCS from August 2022 through October 30, 2023 (i.e., prior to Roux’s sampling period) for benzene, carbon tetrachloride, and H₂S.

Benzene

¹⁷ SCS, 2022. Third Quarter 2022 Community Air Monitoring Report, Chiquita Canyon Landfill, November.

¹⁸ SCS, 2023. Third Quarter 2023 Community Air Monitoring Report, Chiquita Canyon Landfill, November 15.

¹⁹ Los Angeles County DPH, 2023. Letter to Chiquita Re Public Health Notice, July 26.

²⁰ Chiquita, 2023. Letter to Chiquita Re Public Health Notice, August 1.

²¹ Chiquita, 2023. Monthly Enhanced Air Monitoring Program Data, August 2023, September 20.

²² Chiquita, 2023. Monthly Enhanced Air Monitoring Program Data, August 2023, September 20.

From August 25, 2022 through October 30, 2023 a total of 136 air samples were collected by SCS from the Community stations MS-06 through MS-12 and analyzed for benzene. Of the 136 samples, 44% had detections of benzene above its laboratory reporting limit. The concentrations of benzene ranged from below the laboratory reporting limit ($<0.48 \text{ ug/m}^3$) to 21 ug/m^3 , with an average concentration of 1.3 ug/m^3 .²³ None of the SCS detections of benzene in the Community air samples exceeded any of their respective ATSDR/OEHHA acute screening levels or AHIA odor thresholds for residential air. All SCS detections exceeded the DTSC HERO HHRA Note 3 residential screening levels (SLs) for indoor air of 0.097 ug/m^3 .

In 2022 there were less Community samples collected and analyzed for benzene than in 2023 – this was due to the fact the CAMP did not begin until September 2022²⁴ and in August 2023²⁵ the sampling frequency increased. In 2022 (August 25 through December 31) a total of 12 discrete grab air samples were collected by SCS from the Community stations MS-06 through MS-12. Of the 12 samples, 100% had detections of benzene above its laboratory reporting limit. The Community air concentrations of benzene ranged from 0.51 ug/m^3 to 2.8 ug/m^3 , with an average concentration of 1.5 ug/m^3 .²⁶ From January 1, 2023 through October 30, 2023, a total of 96 discrete grab air samples were collected by SCS from the Community stations MS-06 through MS-12. Of the 96 samples, 44% had detections of benzene above its laboratory reporting limit. The Community air concentrations of benzene ranged from below the laboratory reporting limit ($<0.48 \text{ ug/m}^3$) to 5.9 ug/m^3 , with an average concentration of 1.1 ug/m^3 .²⁷ None of the SCS detections of benzene in the Community air samples exceeded any of their respective ATSDR/OEHHA acute screening levels or AHIA odor thresholds for residential air. All SCS detections exceeded the DTSC HERO HHRA Note 3 residential SLs for indoor air of 0.097 ug/m^3 .

The Roux sampling period occurred from October 31, 2023 through December 16, 2023. Comparing our benzene air sampling results to those collected by SCS during the fourth quarter of 2023 utilizes a total of 49 discrete air samples collected by SCS from the Community stations MS-06 through MS-12. Of the 49 samples, 10 % had detections of benzene above its laboratory reporting limit. The concentrations of benzene ranged from below the laboratory reporting limit ($<1.6 \text{ ug/m}^3$) to 222 ug/m^3 , with an average concentration of 6 ug/m^3 .²⁸ During the fourth quarter of 2023, the average benzene concentration observed by SCS was higher than the average benzene concentration observed by Roux (0.62 ug/m^3) in the Community air samples during the 2023 sampling period.

However, the maximum detection of benzene (222 ug/m^3) observed by SCS at location MS-10 on November 6, 2023 may be an outlier. If that point is removed from the dataset, then the concentrations of benzene ranged from below the laboratory reporting limit ($<1.6 \text{ ug/m}^3$) to 8.53 ug/m^3 , with an average concentration of 1.5 ug/m^3 .²⁹ Although, even with this outlier removed, the average benzene concentration observed by SCS was higher than the average benzene concentration observed by Roux (0.62 ug/m^3) in the Community air samples during the 2023

²³ Note, in the SCS dataset there was a sample below the laboratory reporting limit with a reporting limit of over 161 ug/m^3 . This value was removed from the dataset when calculating various statistics as it skewed the dataset.

²⁴ SCS, 2022. Third Quarter 2022 Community Air Monitoring Report, Chiquita Canyon Landfill, November.

²⁵ Chiquita, 2023. Monthly Enhanced Air Monitoring Program Data, August 2023, September 20.

²⁶ Average values were calculated using $\frac{1}{2}$ of the reporting limit for samples reported to be less than the reporting limit.

²⁷ Average values were calculated using $\frac{1}{2}$ of the reporting limit for samples reported to be less than the reporting limit.

²⁸ Average values were calculated using $\frac{1}{2}$ of the reporting limit for samples reported to be less than the reporting limit.

²⁹ Average values were calculated using $\frac{1}{2}$ of the reporting limit for samples reported to be less than the reporting limit.

sampling period. The higher SCS average compared to Roux is likely a result of the higher reporting limit that skews the SCS dataset to higher average benzene concentrations when average values were calculated using ½ of the reporting limit for samples reported to be less than the reporting limit.

In addition to monitoring stations MS-06 through MS-12, in August 2023 SCS added three new locations for Community air sampling: S Chiquito Canyon Road, S End of Lincoln, and SCV. During the Roux sampling period, 15 discrete air samples were collected by SCS at these three locations. All 15 samples were below the laboratory reporting limit for benzene, which ranged from <1.6 ug/m³ to <2.2 ug/m³.

Carbon Tetrachloride

From August 25, 2022 through October 30, 2023 a total of 136 discrete grab air samples were collected by SCS from the Community stations MS-06 through MS-12 and analyzed for carbon tetrachloride. Of the 136 samples, less than 3% had detections of carbon tetrachloride above its laboratory reporting limit. The concentrations of carbon tetrachloride ranged from below the laboratory reporting limit (<0.94 ug/m³) to 1.1 ug/m³, with an average concentration of 1.3 ug/m³.³⁰ None of the SCS detections of carbon tetrachloride in the Community air samples exceeded any of their respective ATSDR/OEHHA acute screening levels or AHIA odor thresholds for residential air. All SCS detections, exceeded the DTSC HERO HHRA Note 3 residential SLs for indoor air of 0.47 µg/m³.

In 2022 there were less Community samples collected and analyzed for carbon tetrachloride than in 2023 – this was due to the fact the CAMP did not begin until September 2022³¹ and in August 2023³² the sampling frequency increased. In 2022 (August 25 through December 31) a total of 12 discrete grab air samples were collected by SCS from the Community stations MS-06 through MS-12. Of the 12 samples, 25% had detections of carbon tetrachloride above its laboratory reporting limit. The concentrations of carbon tetrachloride ranged from below the laboratory reporting limit (<0.94 ug/m³) to 1.1 ug/m³, with an average concentration of 0.66 ug/m³. From January 1, 2023 through October 30, 2023 a total of 96 discrete grab air samples were collected by SCS from the Community stations MS-06 through MS-12. Of the 96 samples, approximately 1% had detections of carbon tetrachloride above its laboratory reporting limit. The only detection of carbon tetrachloride was observed on June 16, 2023 at 1.0 ug/m³. None of the SCS detections of carbon tetrachloride in the Community air samples exceeded any of their respective ATSDR/OEHHA acute screening levels (Table 5) or AHIA odor thresholds (Table 6) for residential air. All SCS detections, exceeded the DTSC HERO HHRA Note 3 residential SLs for indoor air of 0.47 µg/m³.

The Roux sampling period occurred from October 31, 2023 through December 16, 2023. Comparing our carbon tetrachloride air sampling results collected by SCS during the fourth quarter of 2023 utilizes a total of 49 discrete air samples collected by SCS from the Community stations

³⁰ Note, in the SCS dataset there was a sample below the laboratory reporting limit with a reporting limit of over 317 ug/m³. This value was removed from the dataset when calculating various statistics as it skewed the dataset.

³¹ SCS, 2022. Third Quarter 2022 Community Air Monitoring Report, Chiquita Canyon Landfill, November.

³² Chiquita, 2023. Monthly Enhanced Air Monitoring Program Data, August 2023, September 20.

MS-06 through MS-12. Of the 49 samples, 0% had detections of carbon tetrachloride above its laboratory reporting limit.

Sulfur Compounds

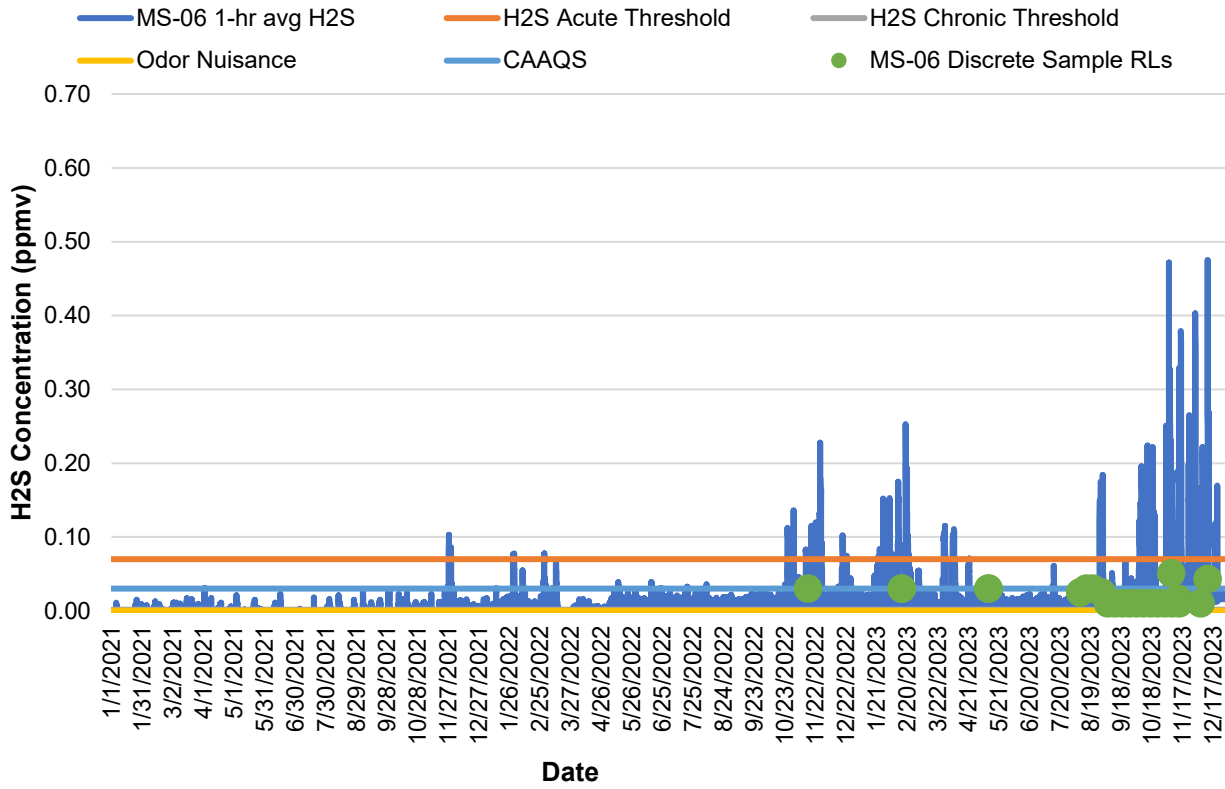
From August 25, 2022 through October 30, 2023 a total of 174 discrete grab air samples were collected by SCS from the Community stations MS06 through MS12, S Chiquito Canyon Road, S End of Lincoln, and SCV and analyzed for hydrogen sulfide. Of the 184 samples, 0% had detections of sulfur compounds above its laboratory reporting limit.

The Roux sampling period occurred from October 31, 2023 through December 18, 2023. Comparing our sulfur compounds air sampling results collected by SCS during the fourth quarter of 2023 utilizes a total of 49 discrete air samples collected by SCS from the Community stations MS-06 through MS-12, S Chiquito Canyon Road, S End of Lincoln, and SCV. Of the 49 samples, 0% had detections of sulfur compounds above its laboratory reporting limit. SCS's sulfur compounds results during this time period are comparable to the results obtained by Roux. As with Roux' results, SCS's laboratory reporting limits were elevated relative to the CAAQS, the chronic and acute OEHHA RELs, and odor thresholds.

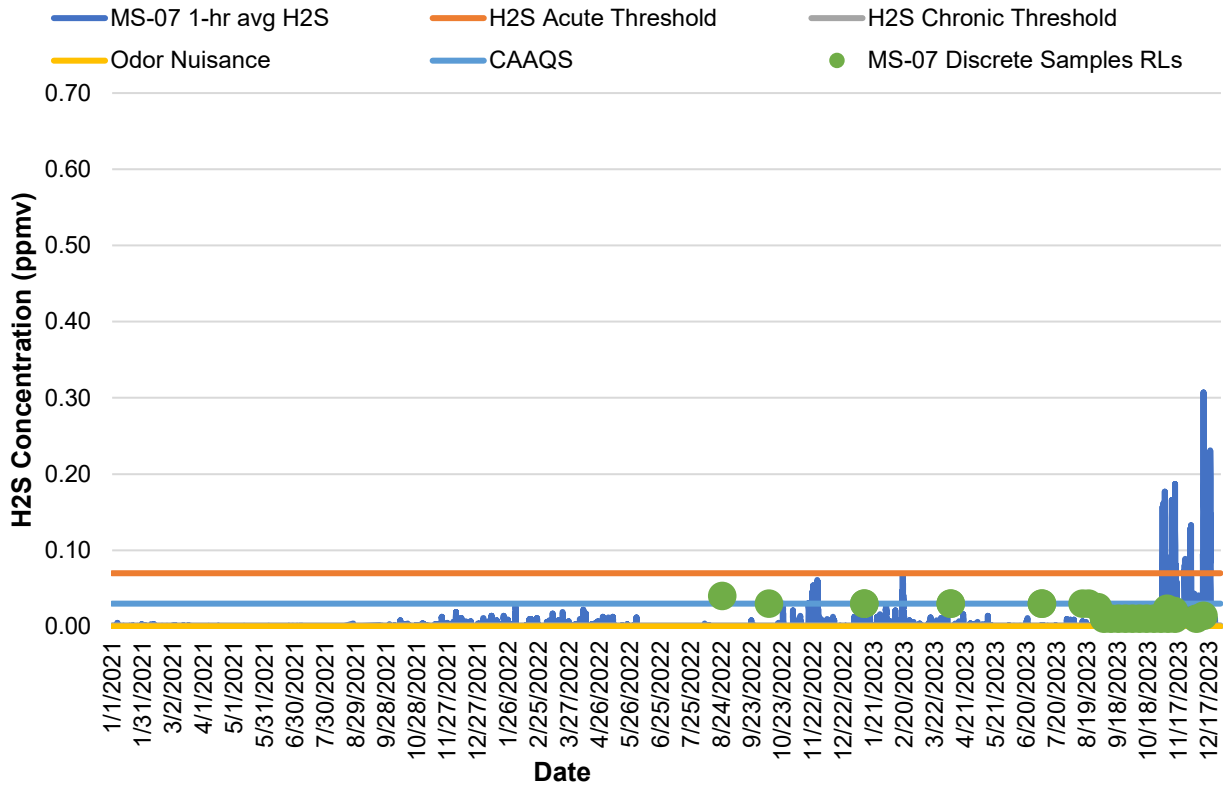
In addition to monitoring stations MS-06 through MS-12, in August 2023 SCS added three new locations for Community air sampling: S Chiquito Canyon Road, S End of Lincoln, and SCV. During the Roux sampling period, 15 discrete air samples were collected by SCS at these three locations. All 15 samples were below the laboratory reporting limit for hydrogen sulfide, which ranged from <0.010 ppmv to <0.014 ppmv.

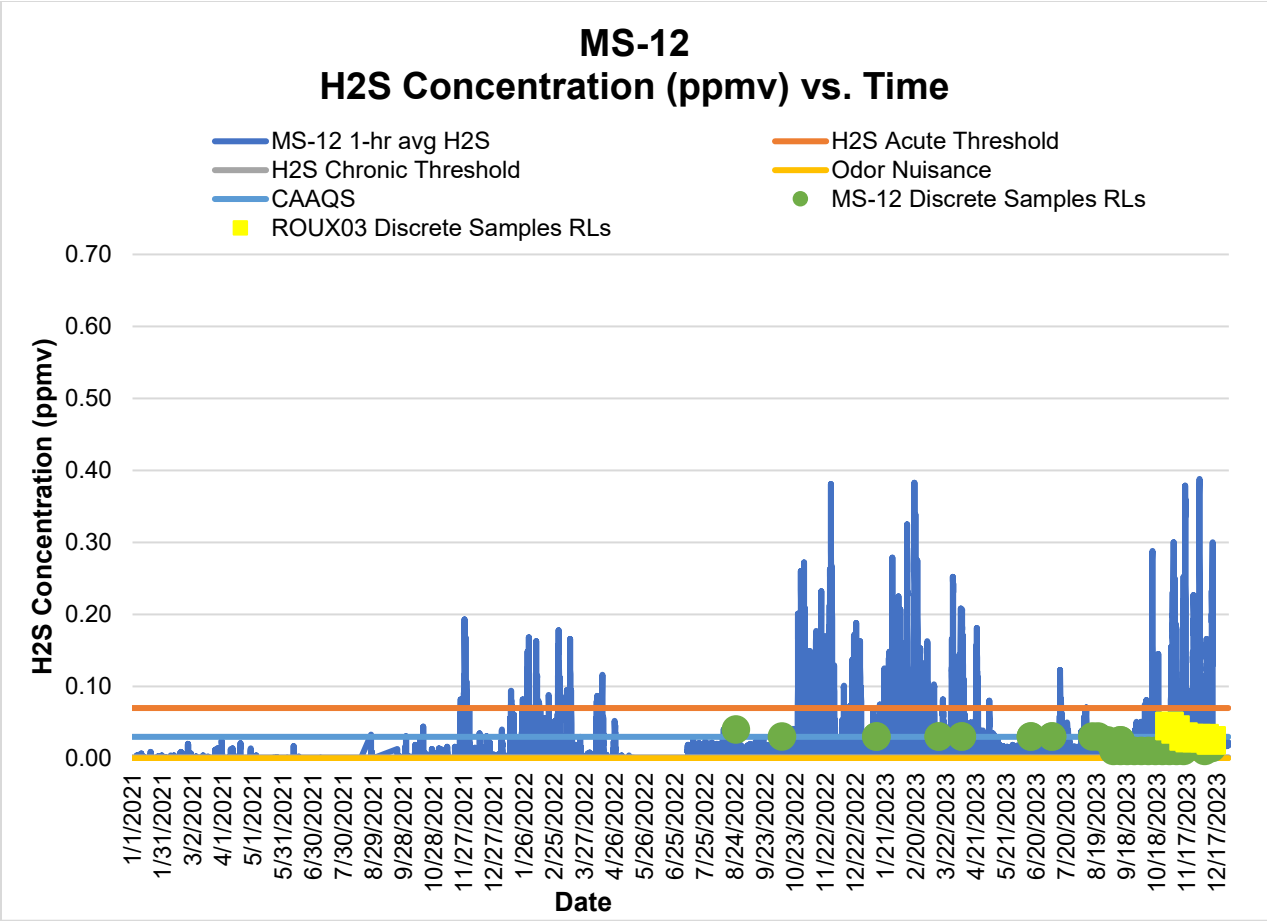
SCS have also been operating continuous Community air monitoring for the sulfur compound H₂S that are more sensitive than the analytical laboratory reporting limits. However, continuous monitors are also generally considered less reliable than laboratory analytical techniques, due to issues with calibration, sensor maintenance, interferants, and various other factors. Despite this fact, continuous air monitoring data suggests that Community ambient air levels for H₂S over the last couple of years has periodically exceeded the CAAQS and OEHHA acute one-hour REL for H₂S of 0.03 ppm and the OEHHA chronic REL of 0.007 ppm for H₂S and that the frequency and intensity of those exceedances has increased in 2023. For example, below is the continuous data from the closest original CAMP monitoring locations in the Community (MS0-6, MS-07, MS-12):

MS-06 H2S Concentration (ppmv) vs. Time

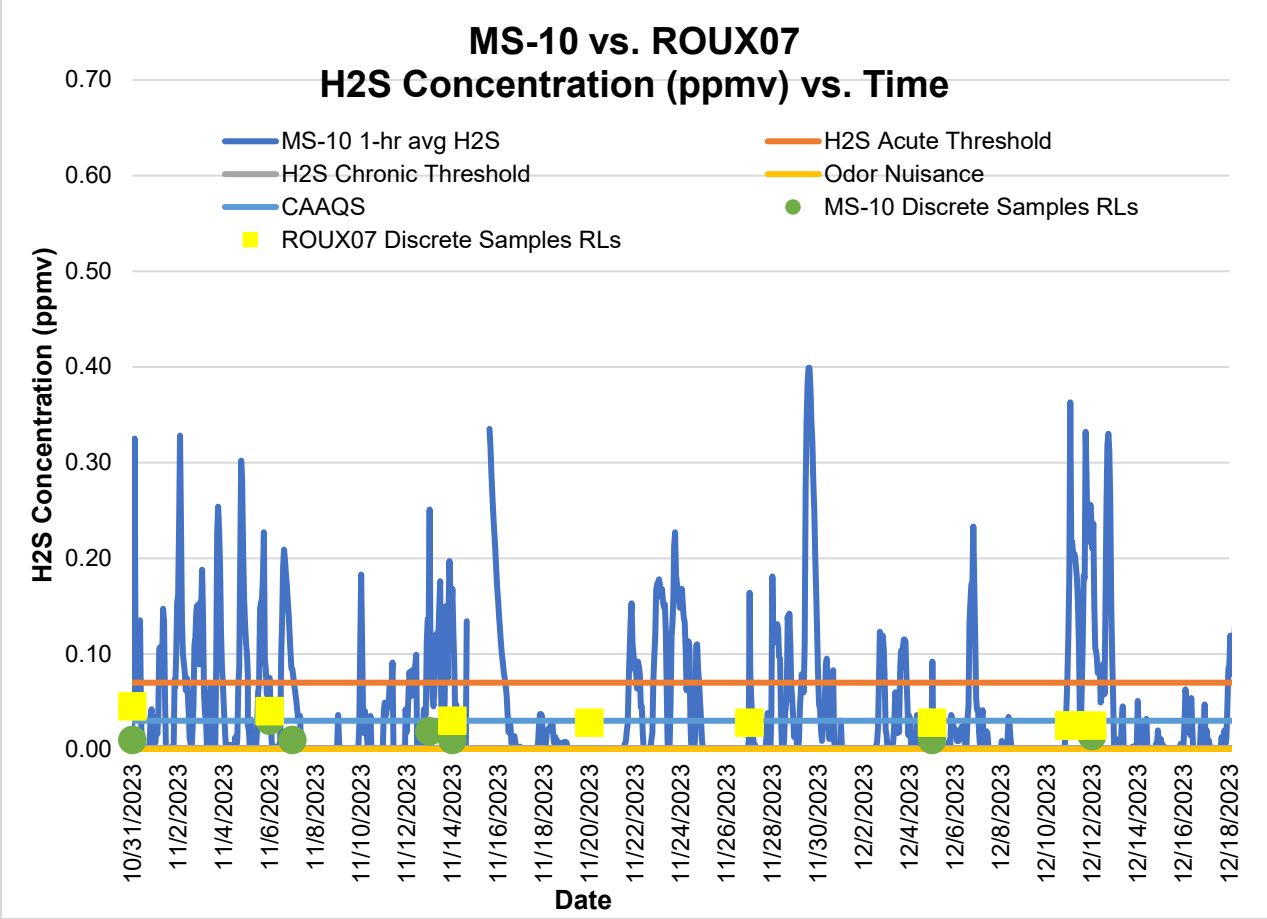


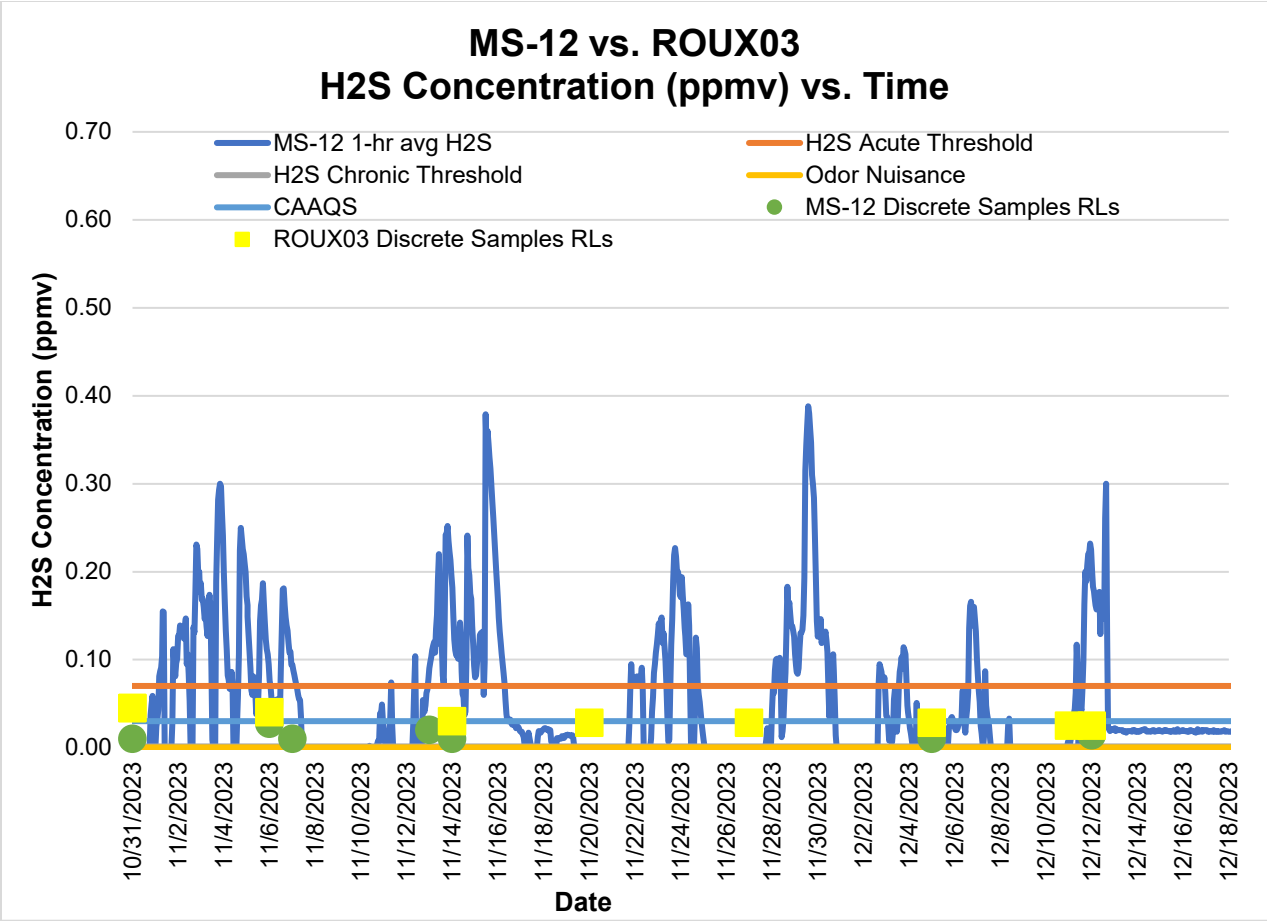
MS-07 H2S Concentration (ppmv) vs. Time





Given the H₂S concentrations reported by the continuous monitors, if accurate, it is unclear why discrete ambient air samples for sulfur compounds were never able to detect H₂S in ambient air. The graph below displays H₂S concentrations reported by the continuous monitors compared to the detection limits of the samples Roux collected at the same locations (MS-10 and MS-12) during the same time interval.





SCS’s long-term continuous monitoring in Community ambient air shows the increases and decreases of H₂S concentrations generally occur in tandem across the Community (Figure 7), but at different magnitudes of H₂S concentrations at different locations. Correlations are especially strong for monitoring stations in the same general downwind direction from Chiquita (MS-12 and MS-08; MS-06 and MS-09; MS-06 and MS-10; MS-09 and MS-10) with higher H₂S concentrations typically at the location closer to Chiquita. Nonetheless, there are also strong correlations between monitoring stations in opposite downwind directions (MS-08 and MS-11; MS-07 and MS-09; MS-07 and MS-010; MS-11 and MS-12). It is critical to ensure the reliability of the real-time H₂S to assess of real-time ambient air H₂S concentrations are attributable to emissions from Chiquita and not an artifact of differences in H₂S sensor calibration.

Given the lack of VOCs associated with odor observances and the increased sensitivity over discrete sampling, the continuous monitoring data for H₂S appears to be the most useful measure of tracking emissions of sulfur compounds and odors from the Chiquita facility - if it can be verified as reliable.

6. Human Health Screening Evaluation

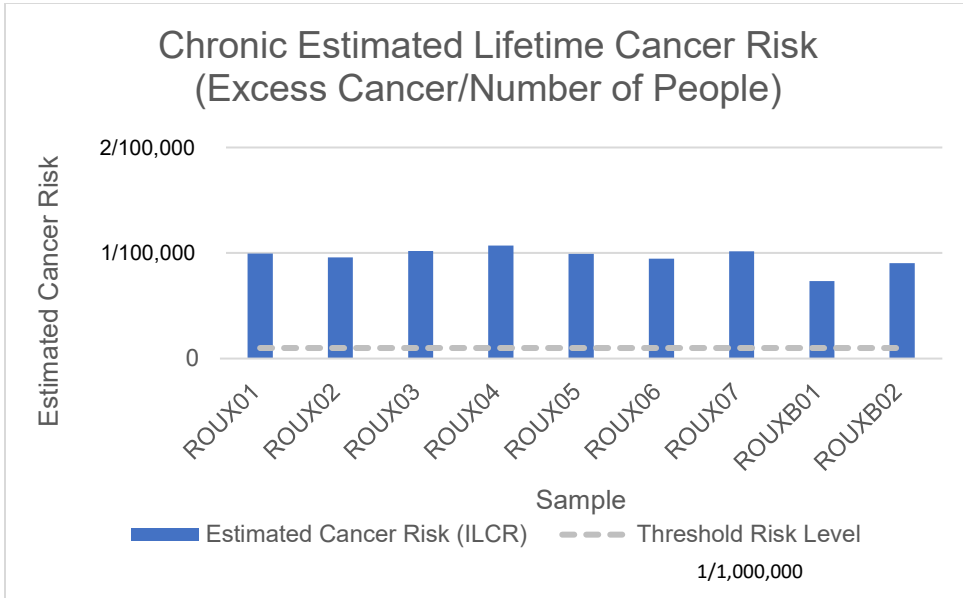
A HHSE and Odor Evaluation was prepared for the Community surrounding Chiquita. The HHSE has two primary objectives:

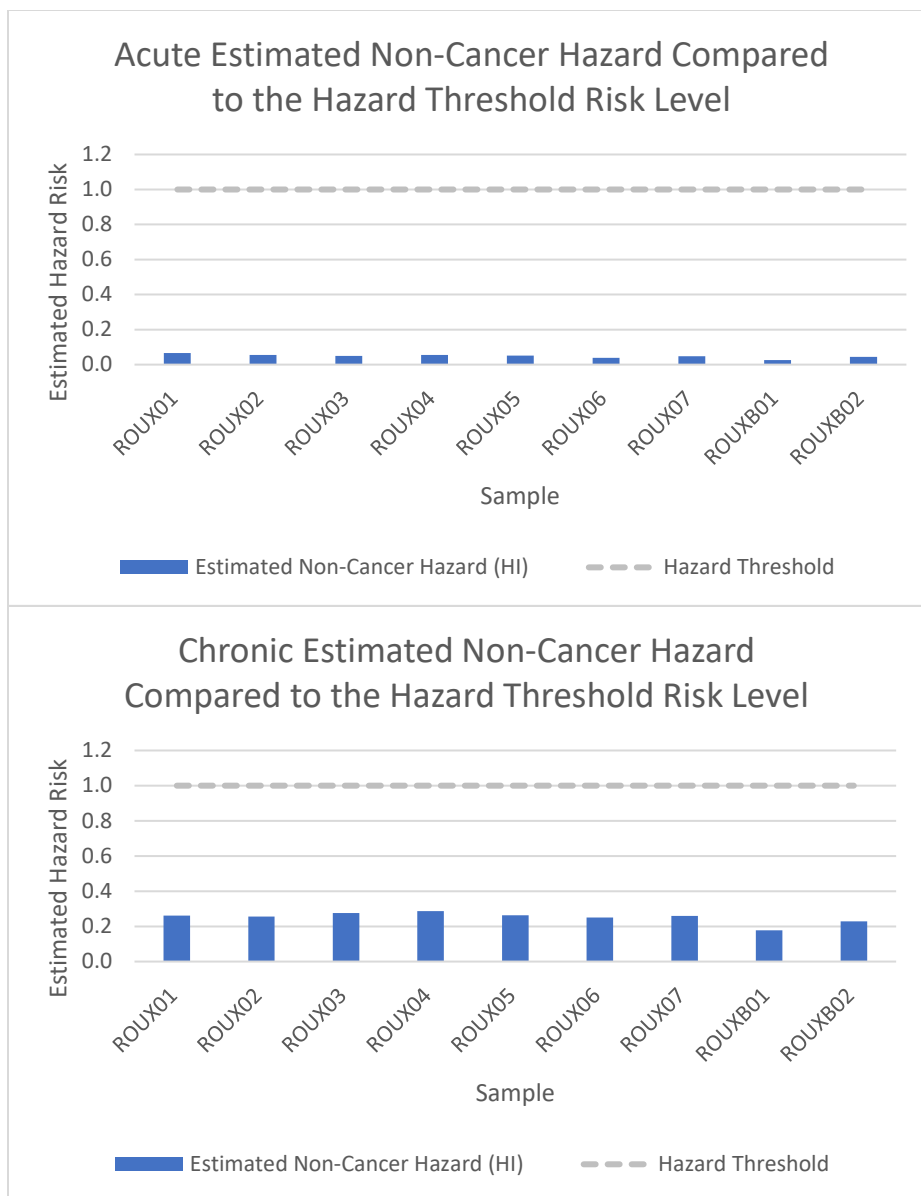
1. To investigate Community concerns about odors emitted from Chiquita. This includes evaluating the magnitude of odors emitted from Chiquita and potential adverse health outcomes associated with odor nuisances.
2. To provide a conservative evaluation of the potential risk from exposure to chemicals detected in the ambient air of the Communities pursuant to the California Department of Toxic Substance Control (DTSC) *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015), and other pertinent guidance.

The HHSE included evaluation of both acute (short-term) exposure and chronic (long-term) exposure to chemicals. The HHSE consists of four components:

- **Evaluation of Exposure Pathways:** Exposure to chemicals may occur via dermal contact, ingestion, or inhalation of chemicals of potential concern (COPCs) present in soil and/or soil gas at the Site;
- **Evaluation of Exposure to COPCs and Exposure Point Concentrations:** Identification of contaminants found in media in the Community and determination of appropriate exposure point concentrations (EPCs) for COPCs;
- **Evaluation of Chemical Toxicity:** Assessment of potential adverse effects of the COPCs and compilation of non-carcinogenic and carcinogenic toxicity values for use in numerical risk estimates; and
- **Risk Characterization:** Integration of results of the hazard assessment to provide a quantitative estimation of non-carcinogenic and carcinogenic risks.

The results of the evaluation indicate that when using health-protective estimates of exposure, the chronic excess cancer risk exceeds the residential risk threshold of one per one-million people, but that the risk is not associated specifically with Chiquita Canyon Landfill emissions. Instead, the risk appears attributable to more general ambient air quality issues in the region. Non-cancer acute and non-cancer chronic risk thresholds were not exceeded.





While the odor issues experienced in the Community surrounding the Chiquita Canyon Landfill cannot be explained by the detected volatile organic chemicals, it is reasonable to conclude that the odors are associated with the sulfur compounds in the ambient air. There are no detectable cancer or non-cancer risk exceedances of the sulfur compounds in ambient air via laboratory analysis; however, the laboratory reporting limits are higher than many of the odor thresholds. Thus, concentrations of sulfur compounds in ambient air that are non-detect for cancer and non-cancer risk but are above odor thresholds, can result in persistent odors for the Community (especially when they are unpleasant), which may cause respiratory, neurological and inflammatory symptoms.

It is well-established that odorants can result in short-term health effects in the exposed populations and can intermittently exacerbate existing health conditions. Development of symptoms following exposure to odorants can vary based on sensitivity to odor, how long exposure lasts, age, state of health and susceptibility (young children, pregnant women, elderly). The most common symptoms

following exposure to odorants are headaches, nasal congestion, eye, nose and throat irritation, hoarseness/sore throat, cough, chest tightness, shortness of breath, wheezing, heart palpitations, nausea, drowsiness and mental depression (ATSDR, 2023b).

The complete HHSE and Odor Assessment, including a comprehensive uncertainty analysis to identify potential limitations and outline the health-protective assumptions used in the assessment, is provided in Appendix C.

7. Conclusions and Recommendations

The Community air sampling investigation documented in this Report was able to achieve the objectives as summarized below:

- Collect independent and supplemental ambient air data;
- Augment and assess potential spatial and temporal data gaps in the Community air sampling program by SCS Engineers (SCS); and,
- Conduct a Human Health Screening Evaluation (HHSE) and Odor Assessment evaluating potential short-term health effects and long-term health risks associated with the ETLF emissions from Chiquita.

Health-protective calculations of the potential human health risk associated with VOCs in Community ambient air, assuming they breathe ambient air 100% of the time, suggest excess cancer rates above the one-in-a-million threshold mostly attributable to benzene and carbon tetrachloride concentrations. The air quality impact to Community ambient air and any potentially attributable health risks appears to be, at least primarily, the result of larger scale ambient air quality issues in Los Angeles County. While the data collected indicates that on some days there may be an incremental contribution of benzene above background levels to the ambient air that may originate from the Chiquita, the Community levels of benzene and carbon tetrachloride in ambient air are not materially different than the ambient air at background locations that were expected to be unaffected by Chiquita. The observed benzene and carbon tetrachloride concentrations in the Community are also similar to the ambient air at locations further away in Burbank and the larger Los Angeles County air basin.

Based on our analysis, we recommend improvements to the Community monitoring efforts in order to Chiquita to better evaluate its potential air quality impacts to the Community:

- Chiquita should validate and maintain the calibration of the continuous H₂S monitoring network to ensure the data reported is quantitatively reliable since this data appears to be the most useful measure of tracking emissions of sulfur compounds and odors from the Chiquita facility.
- Chiquita should increase its benzene sampling frequency and lower its benzene reporting limit of 1.6 mg/m³ (0.5 ppb) to better assess potential benzene emissions from landfill gas emissions.
- Chiquita should include a network of wind direction/speed monitors throughout the sampling area to better understand and track local wind patterns.
- Chiquita should evaluate the benefits of expanding the network of continuous air monitors in the Community in order to get a more complete picture of the transport of emissions and extent and magnitude of impacts from Chiquita into the Community's ambient air. Using the continuous air monitors to identify the spatial and temporal dynamics of exceedances in the OEHHA acute one-hour REL for H₂S and the OEHHA chronic REL in the Community ambient air can provide a basis for evaluating whether landfill emissions are being managed effectively.

Respectfully submitted,

ROUX ASSOCIATES, INC.



April McGuire
Senior Engineer I



Rachel Maxwell
Senior Scientist I



Chris Rose, PE
Principal Engineer



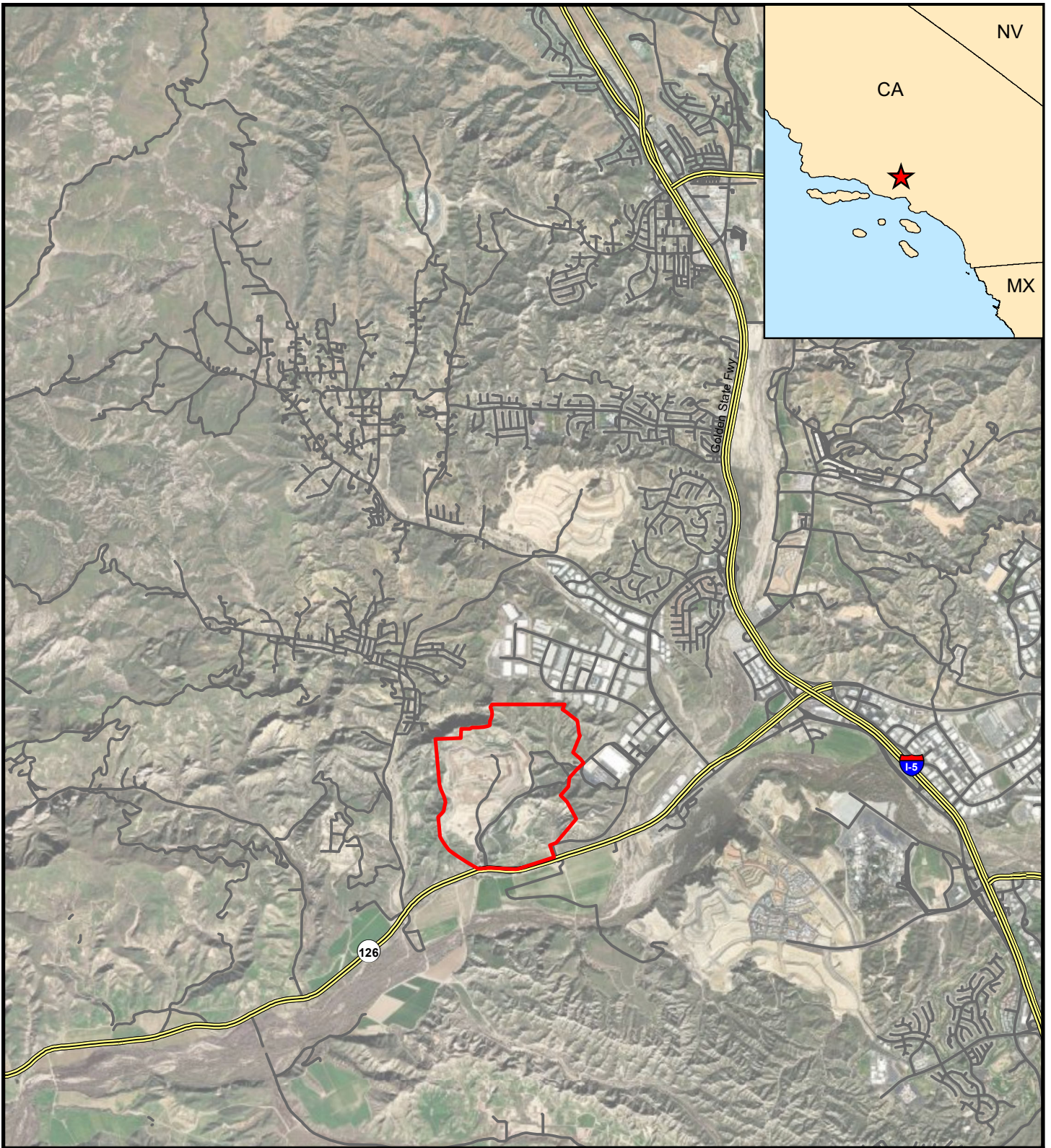
Catherine Boston, MPH, DABT
Principal Scientist/Risk Assessor






Adam Love, Ph.D.
Vice President/Principal Scientist

FIGURES

1. Site Location Map
2. Site and Vicinity Map
3. Community and Background Air Sample Locations
4. Prevailing Wind Directions Near Chiquita (in-text)
5. Total VOCs in Ambient Air
6. Total Sulfur in Ambient Air
7. Cross-correlation of H₂S measurements from SCS continuous monitors

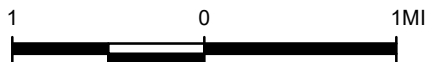


LEGEND

-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.




Title:

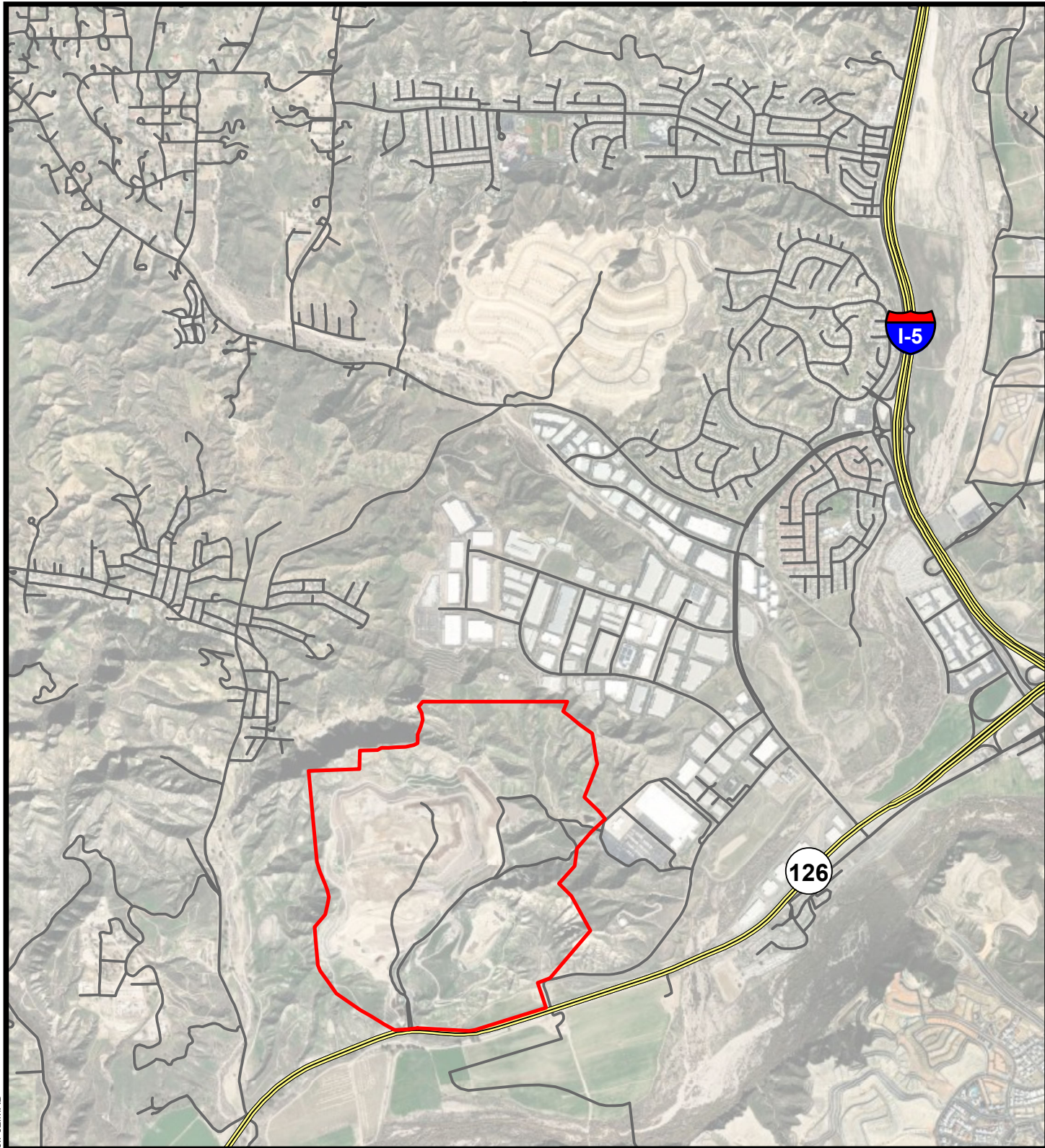
SITE LOCATION MAP

CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:




LOS ANGELES COUNTY

	Compiled by: JNL	Date: 12/19/23	FIGURE 1
	Prepared by: JNL	Scale: AS SHOWN	
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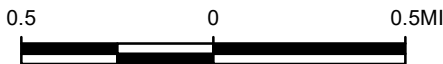
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LEGEND

	ROAD
	MAJOR ROAD
	LANDFILL BOUNDARY

NOTES

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2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.



Title:

SITE AND VICINITY MAP

CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

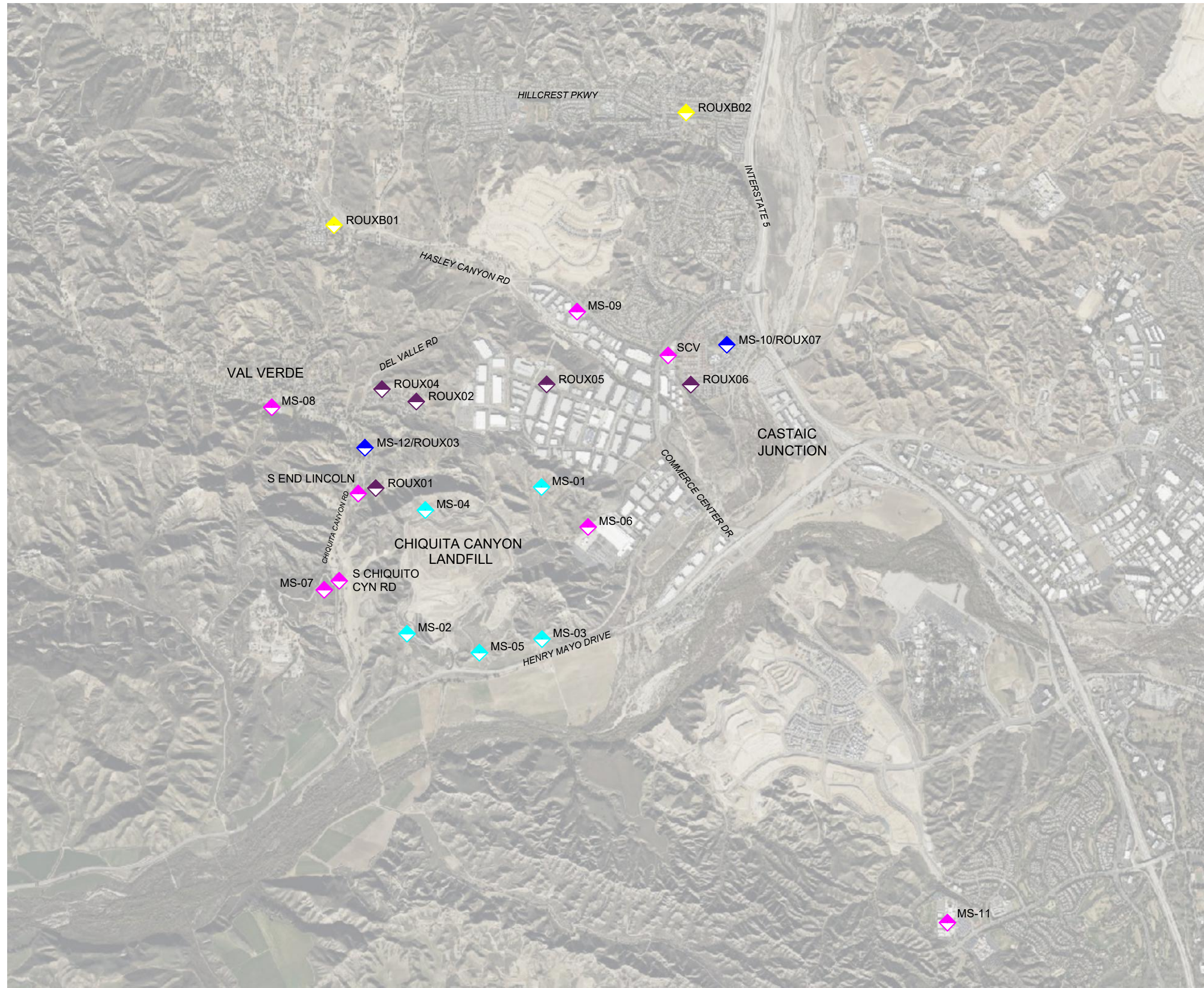
Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 2
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F02.mxd		

\\SRV\O\CAFP1\OAKLAND SHARED\CLIENTS\LA COUNTY PUBLIC WORKS\CHIQUITA LANDFILL\PRE-FIELD\SAMPLING LOCATIONS\002_2471.0001L003 - FIG 3 SAMPLES.DWG




LEGEND

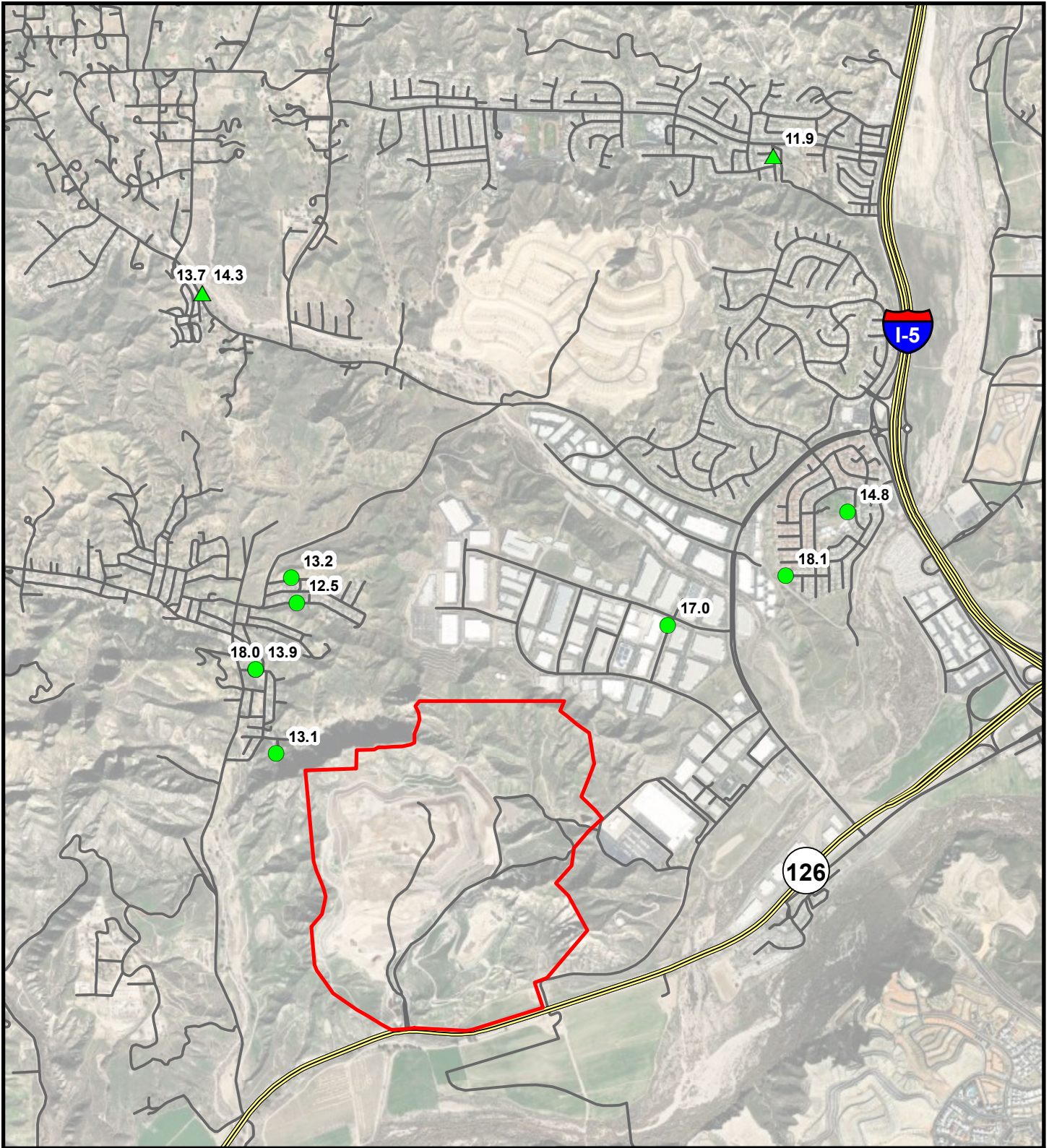
-  ROUX BACKGROUND AIR SAMPLE LOCATION
-  ROUX COMMUNITY AIR SAMPLE LOCATION
-  ROUX & SCS CO-LOCATED AIR SAMPLE LOCATION
-  SCS COMMUNITY AIR SAMPLE LOCATION
-  SCS CHIQUITA LANDFILL AIR SAMPLE LOCATION

NOTES

1. SCS = SCS ENGINEERS



Title:			
COMMUNITY AND BACKGROUND AIR SAMPLE LOCATIONS, ROUX AND SCS			
CHIQUITA CANYON LANDFILL CASTAIC, CALIFORNIA			
Prepared for:			
LA COUNTY PUBLIC WORKS			
	Compiled by: T.C.	Date: 29 DEC 2023	FIGURE 3
	Prepared by: T.C.	Scale: AS SHOWN	
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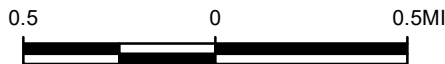
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

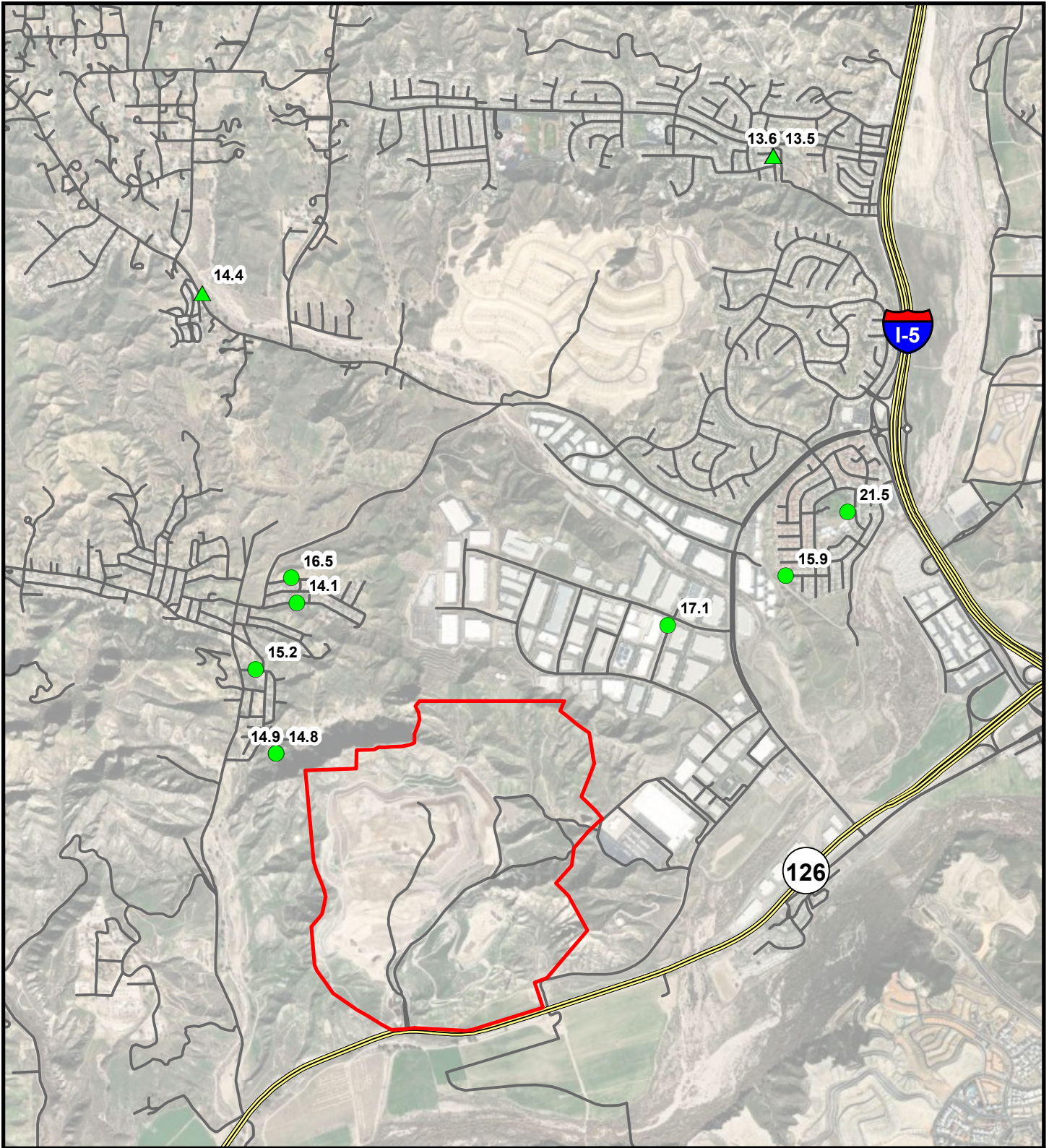
**TOTAL VOCs IN
AMBIENT AIR
11/1/2023**

CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:






LOS ANGELES COUNTY

ROUX	Compiled by: JNL	Date: 12/19/23	FIGURE 5A
	Prepared by: JNL	Scale: AS SHOWN	
	Project Mgr: RM	Project: 4437.0001S000	
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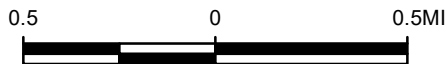
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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/3/2023**

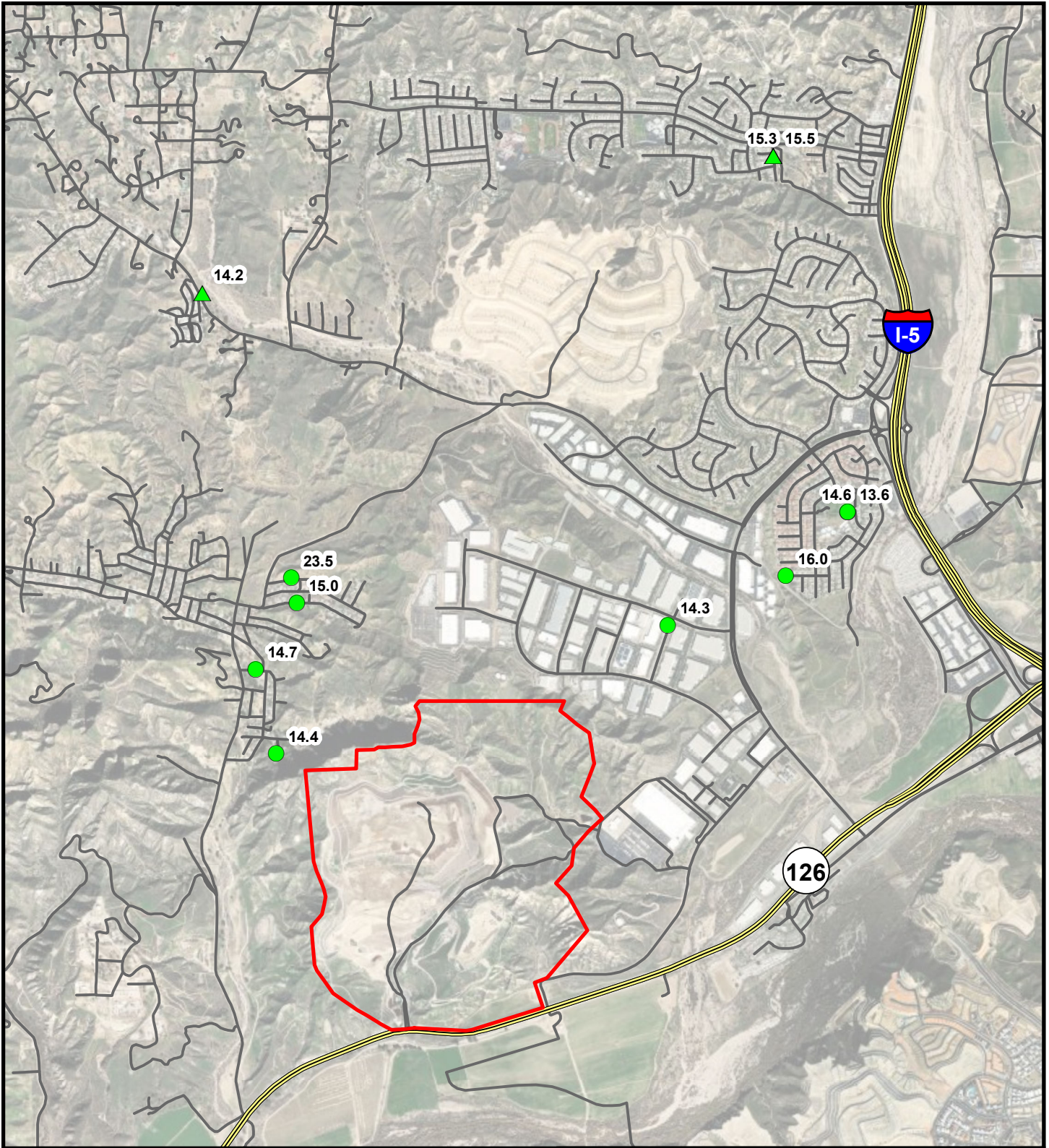
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 5B
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05B.mxd		



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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/5/2023**

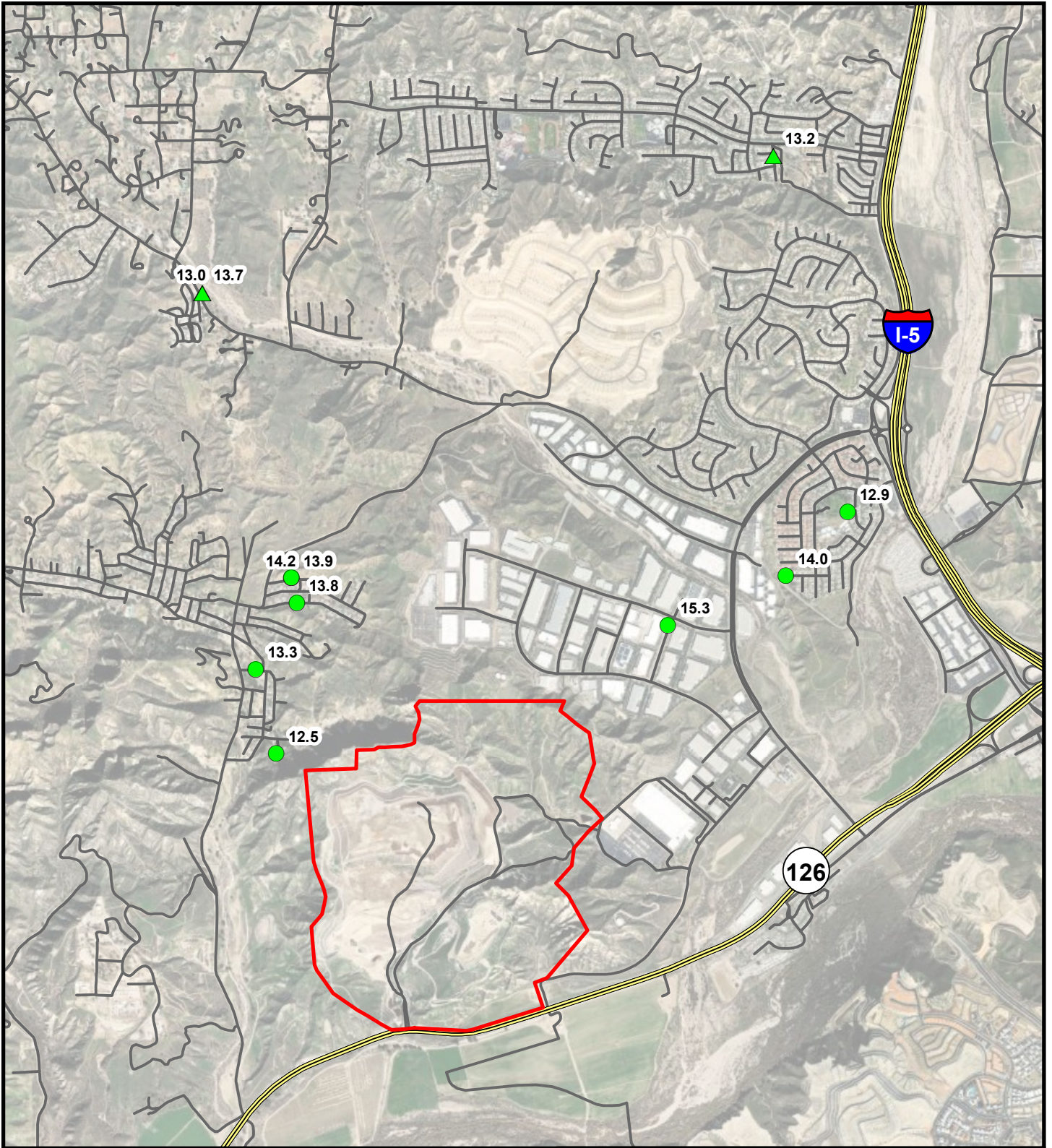
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5C
Prepared by: JNL	Scale: AS SHOWN	
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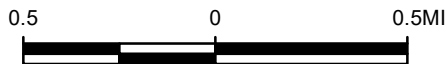


LEGEND

- SITE SAMPLE LOCATION
- △ BACKGROUND SAMPLE LOCATION
- ROAD
- == MAJOR ROAD
- ▭ LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/7/2023**

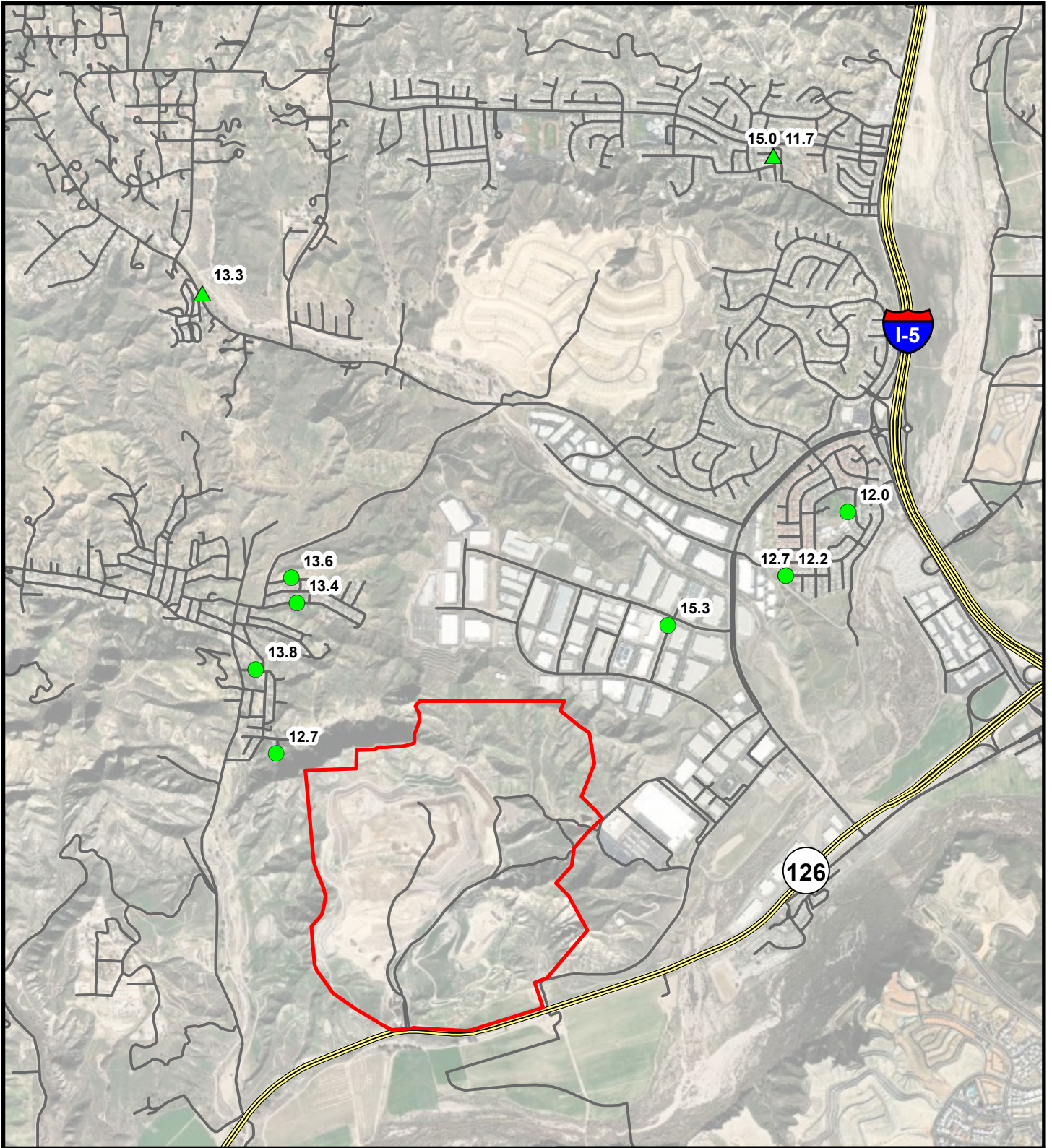
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5D
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05D.mxd		



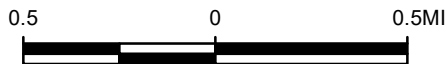
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/9/2023**

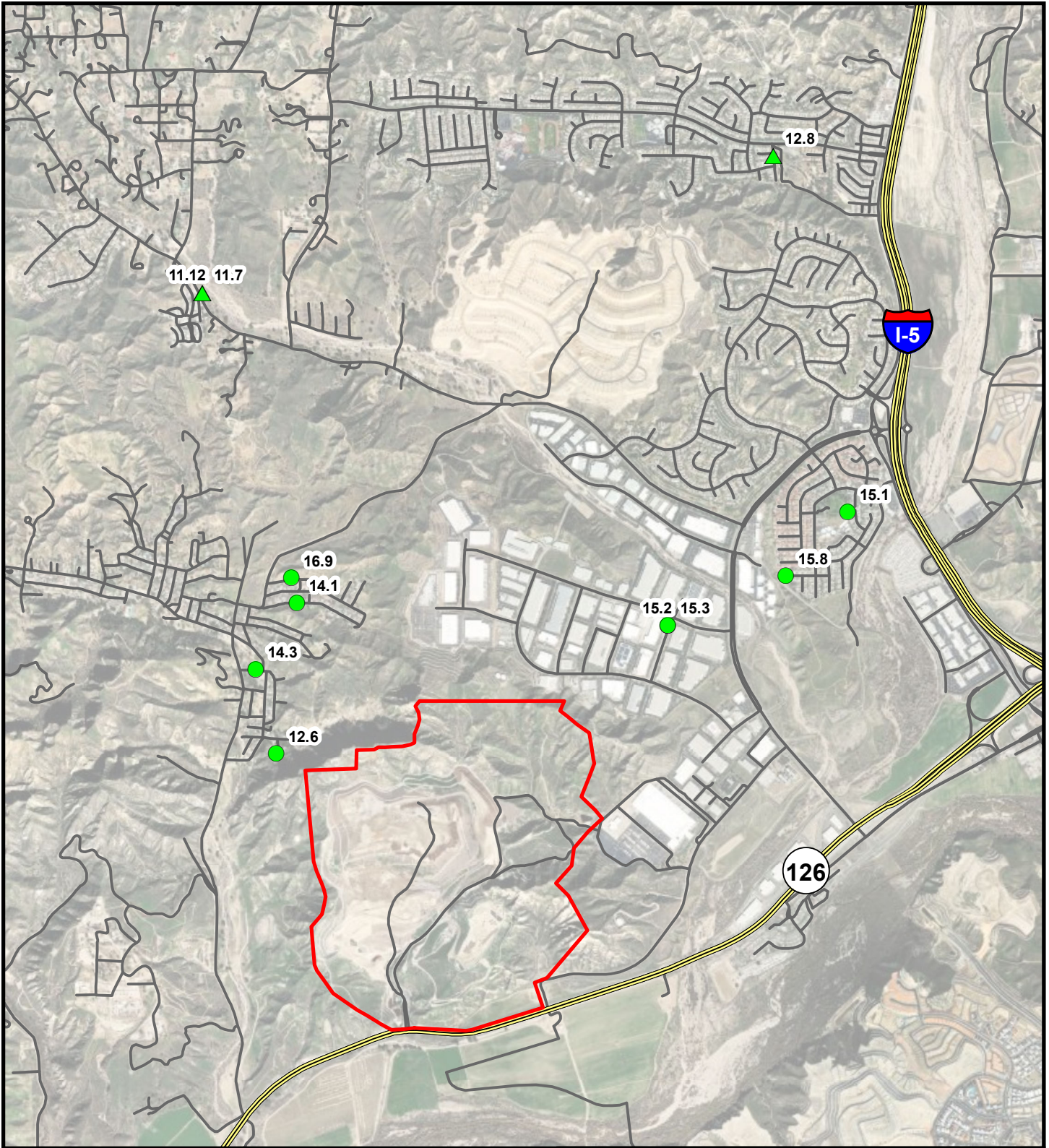
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5E
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05E.mxd		



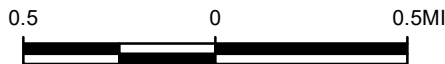
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/10/2023**

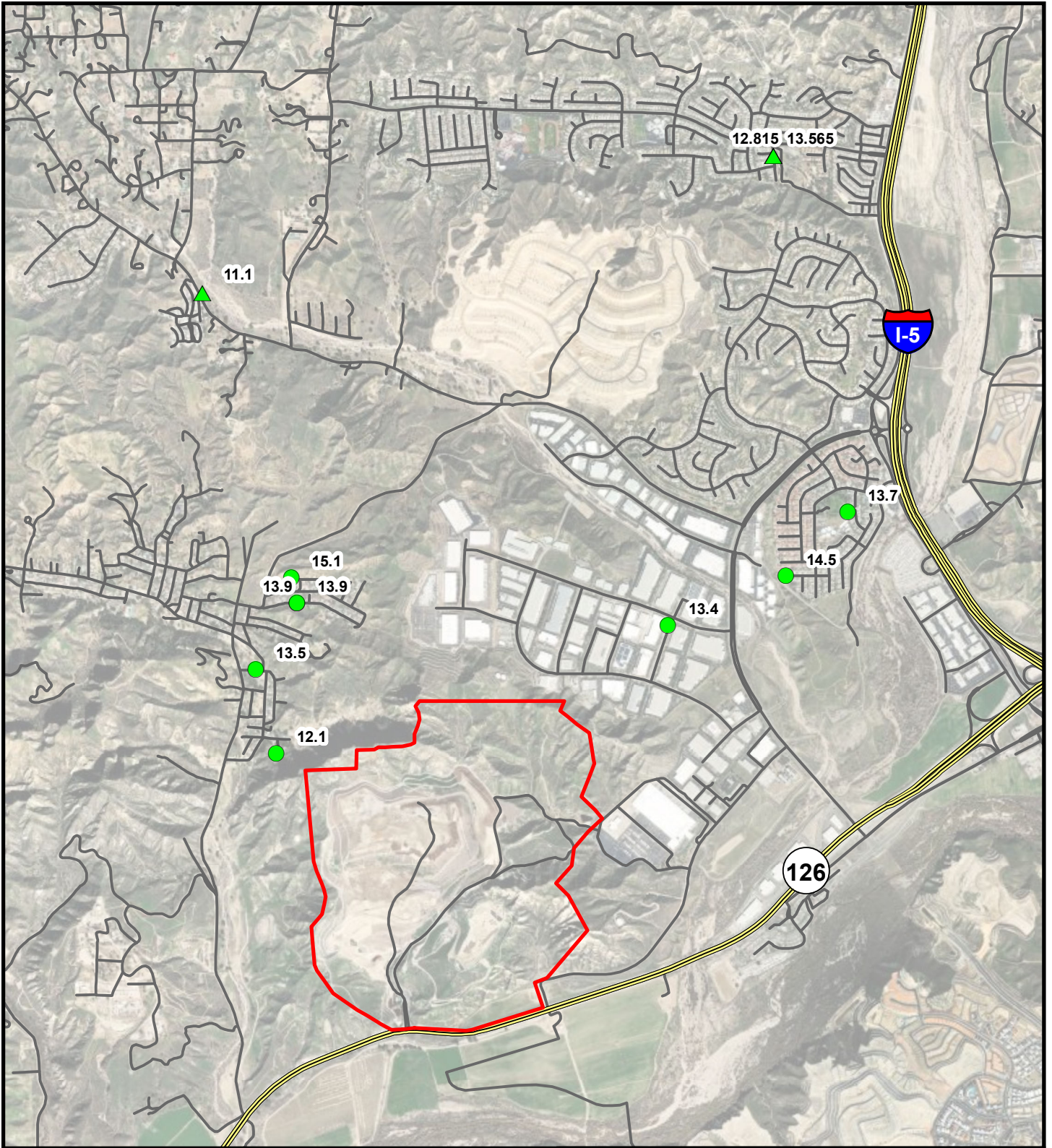
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5F
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05F.mxd		



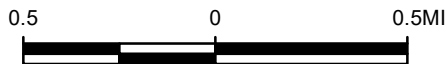
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/12/2023**

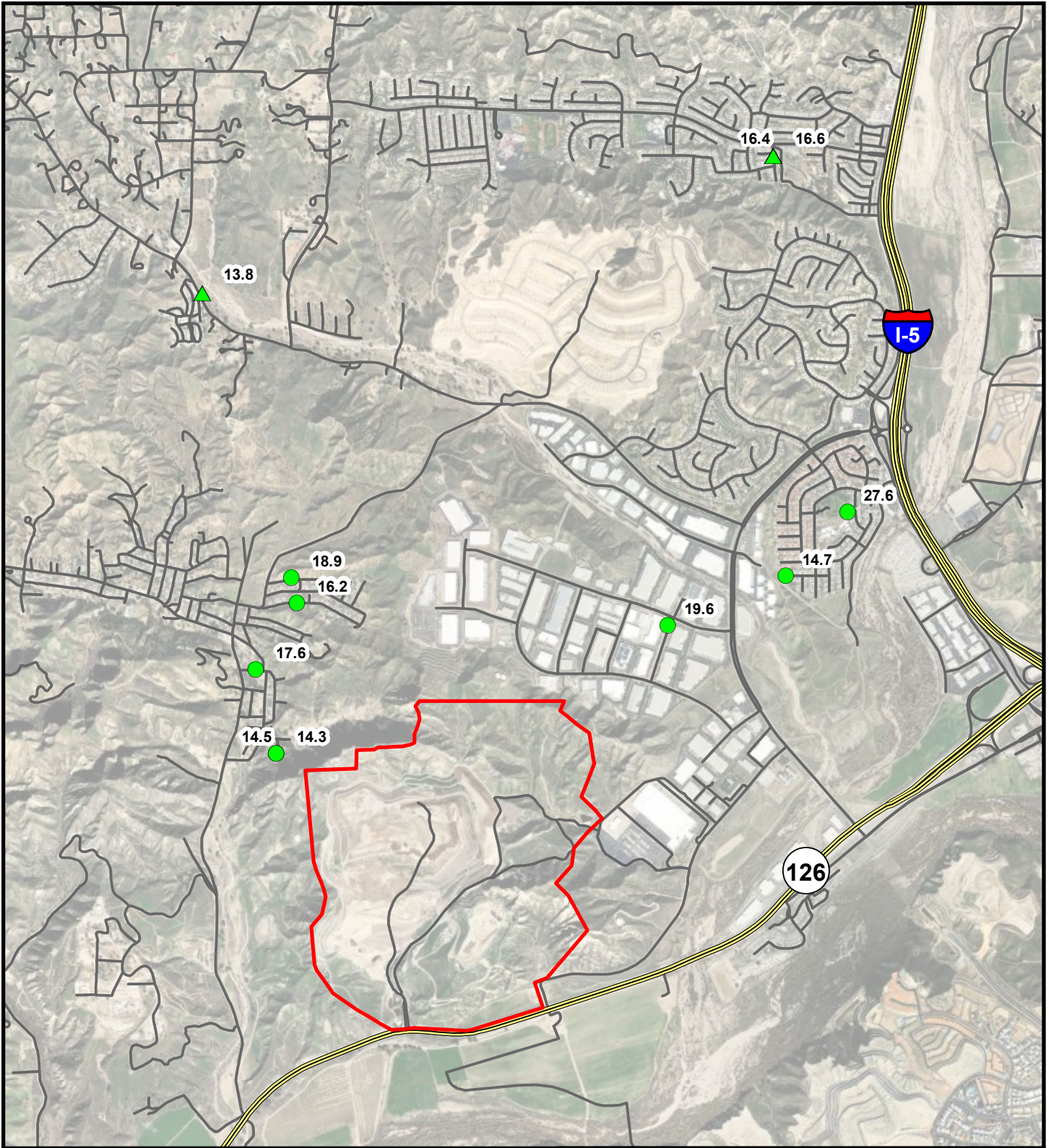
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5G
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05G.mxd		



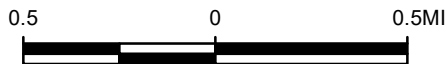
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/14/2023**

CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

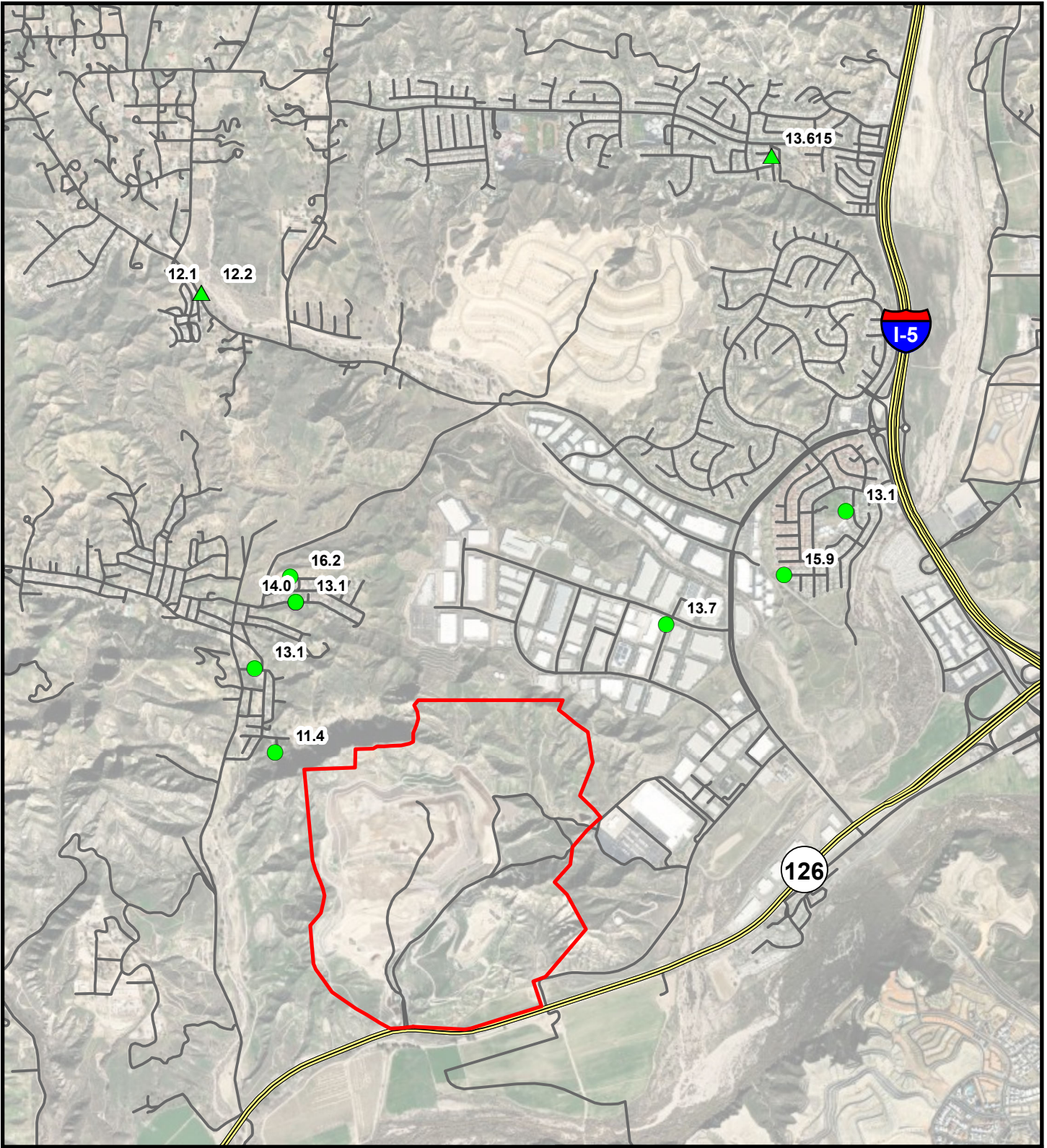
Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5H
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05H.mxd		

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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
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Title:

**TOTAL VOCs IN
AMBIENT AIR
11/16/2023**

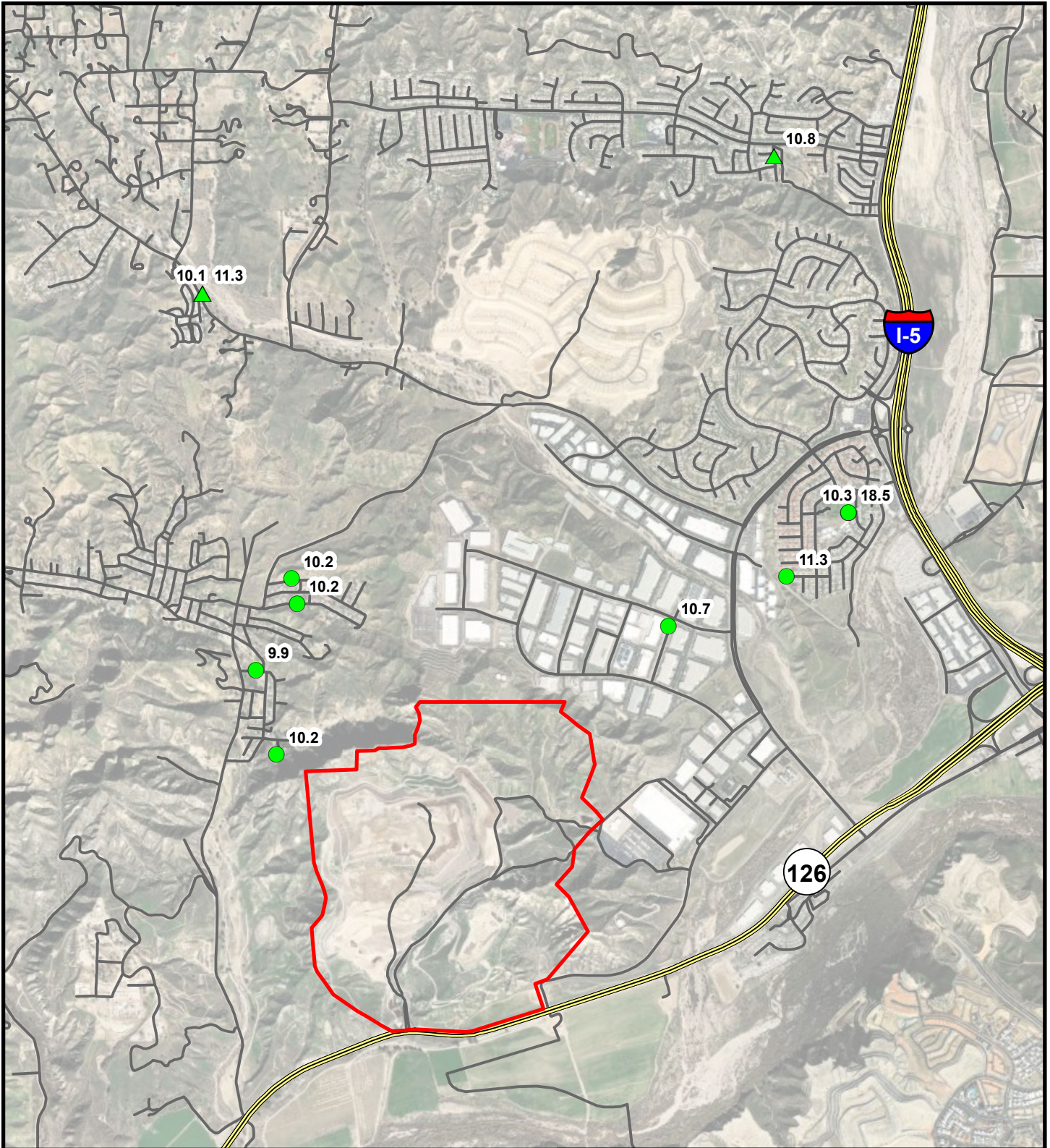
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:






LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 51
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F051.mxd		

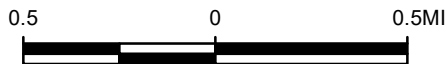


LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
11/19/2023**

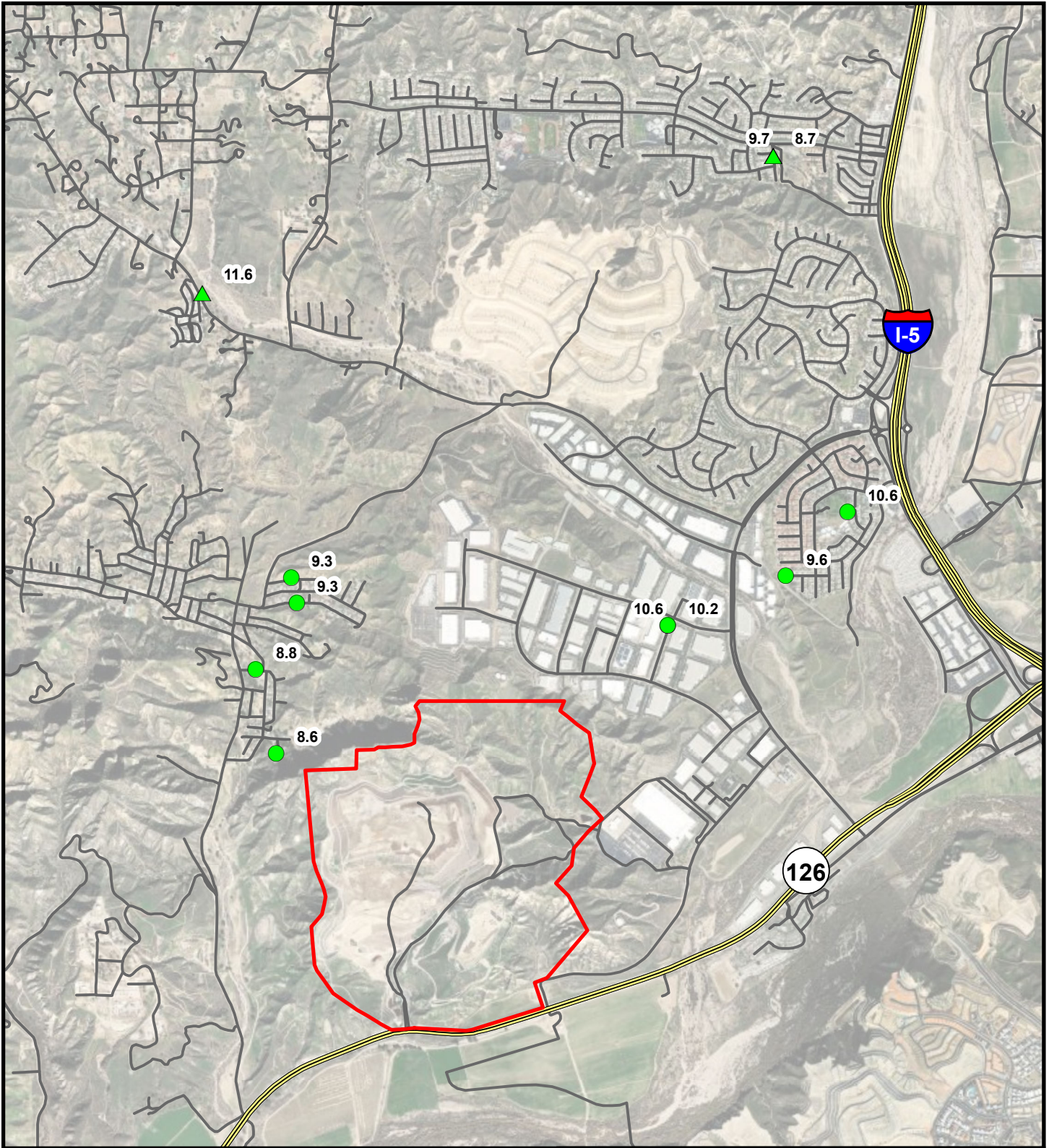
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5J
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05J.mxd		



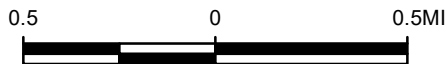
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
11/21/2023**

CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

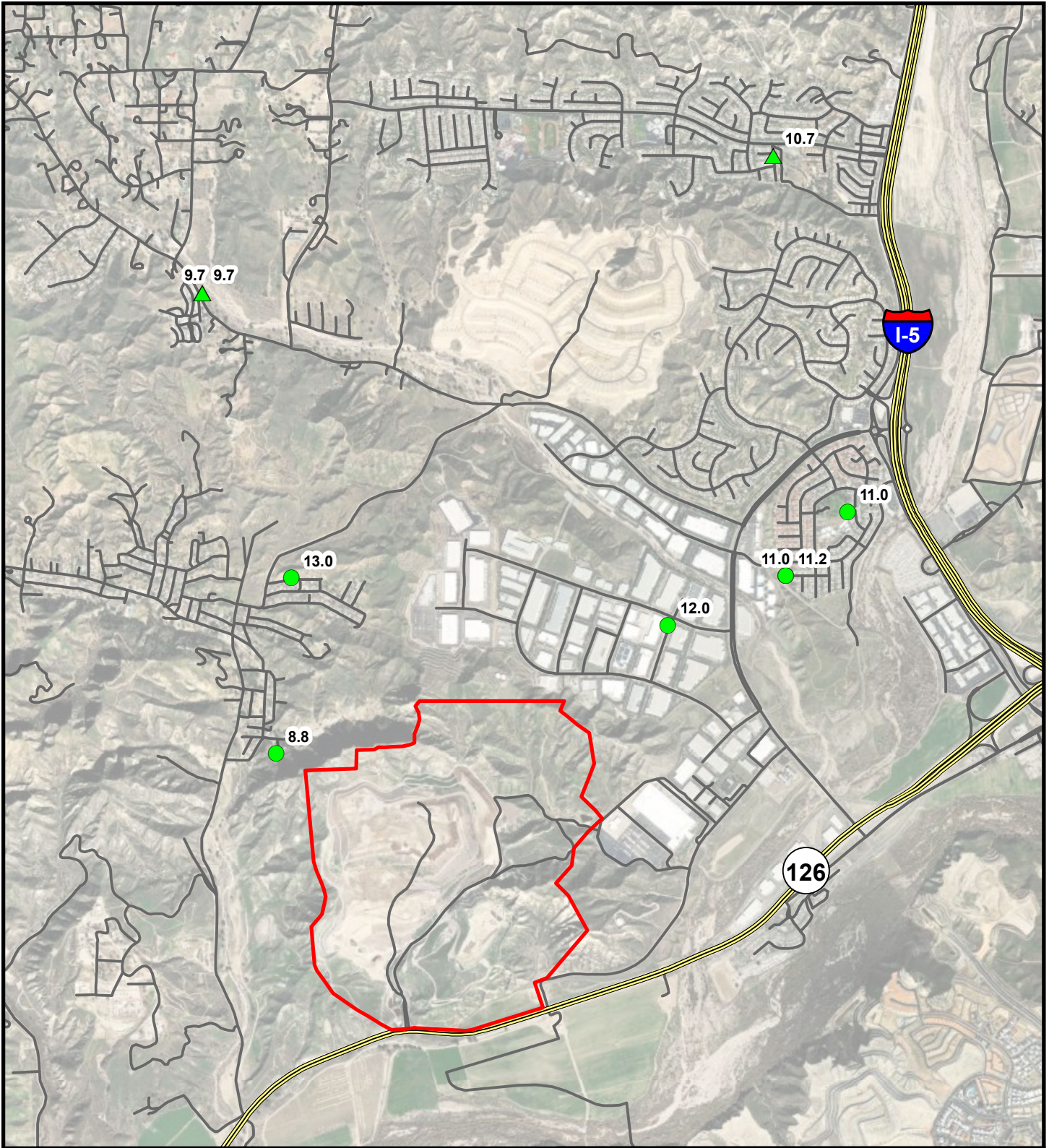
Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5K
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05K.mxd		

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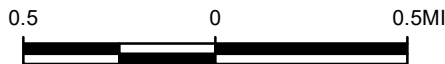


LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
11/28/2023**

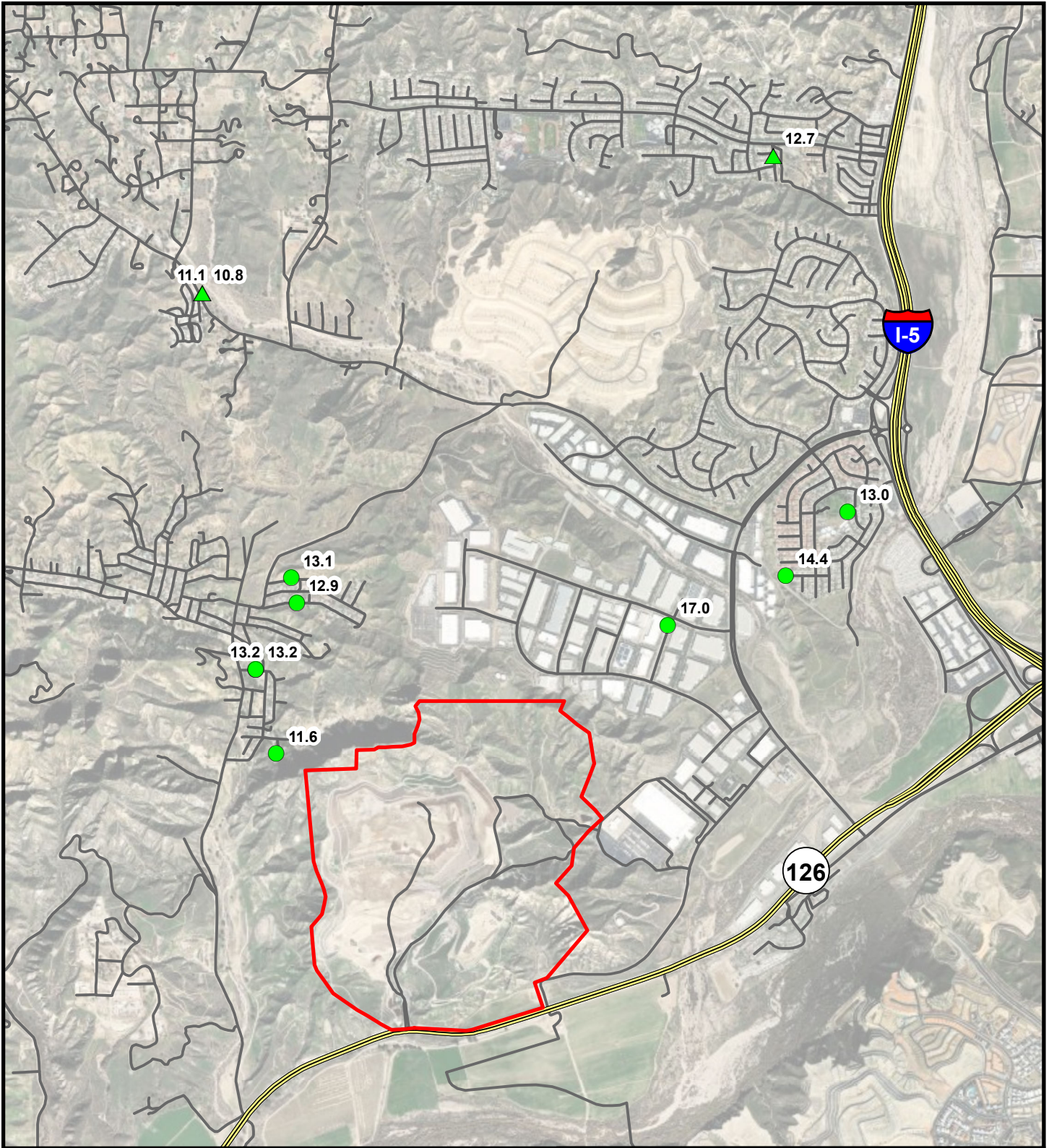
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 5L
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05L.mxd		



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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
11/30/2023**

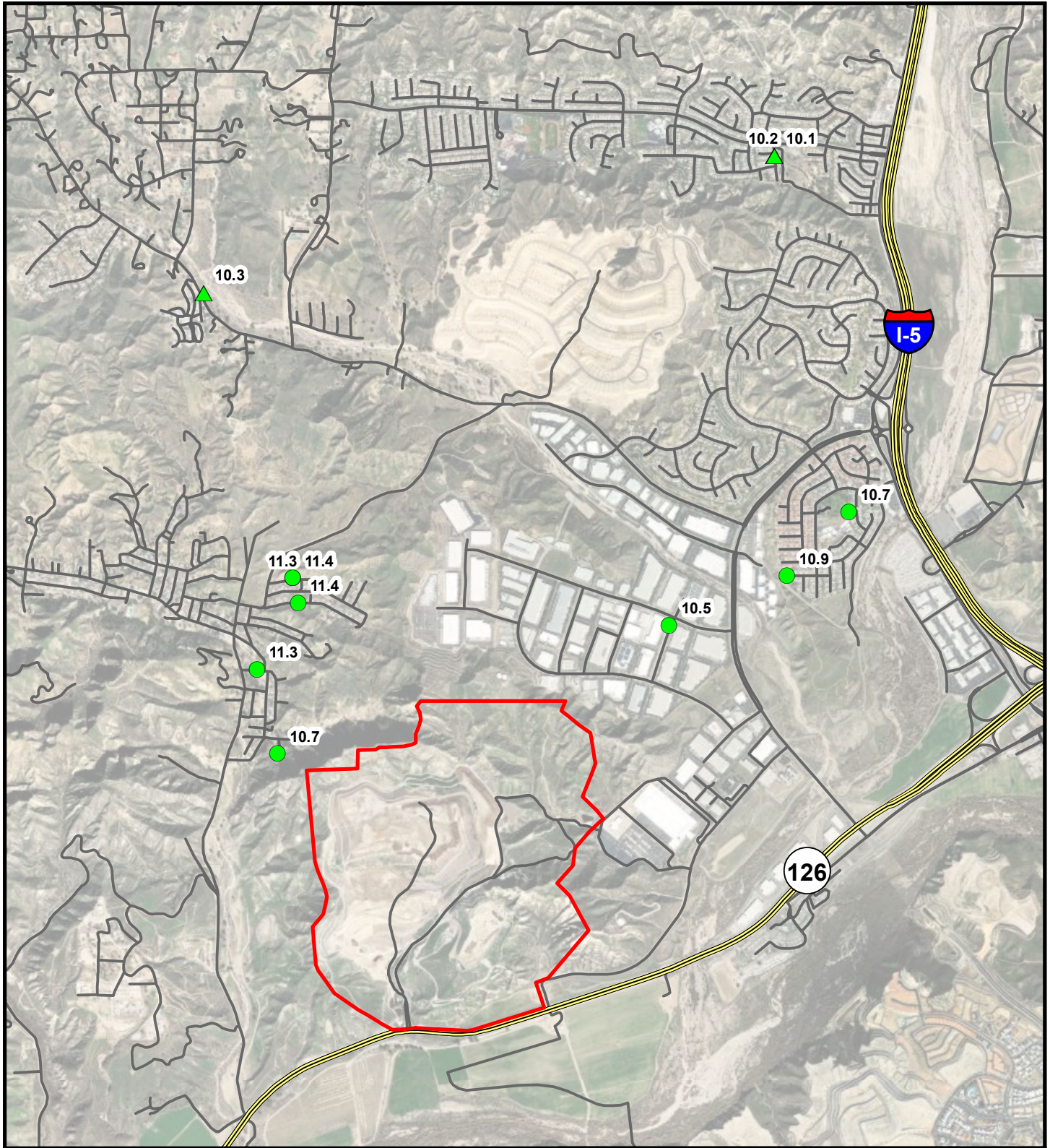
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:






LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5M
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05M.mxd		

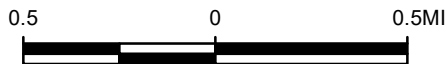


LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/01/2023**

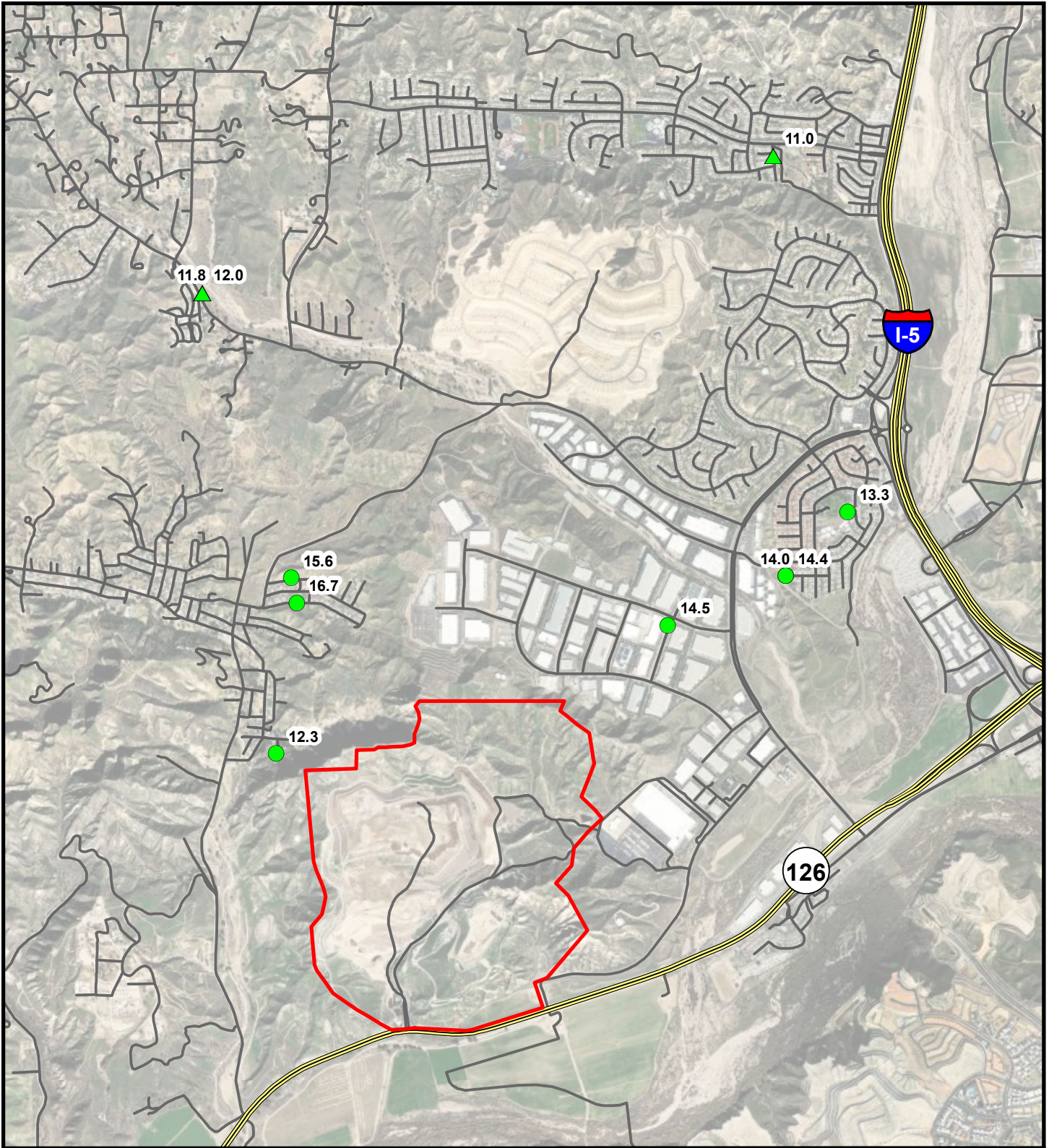
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 5N
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05N.mxd		



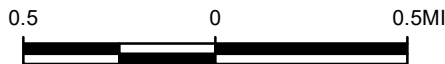
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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/03/2023**

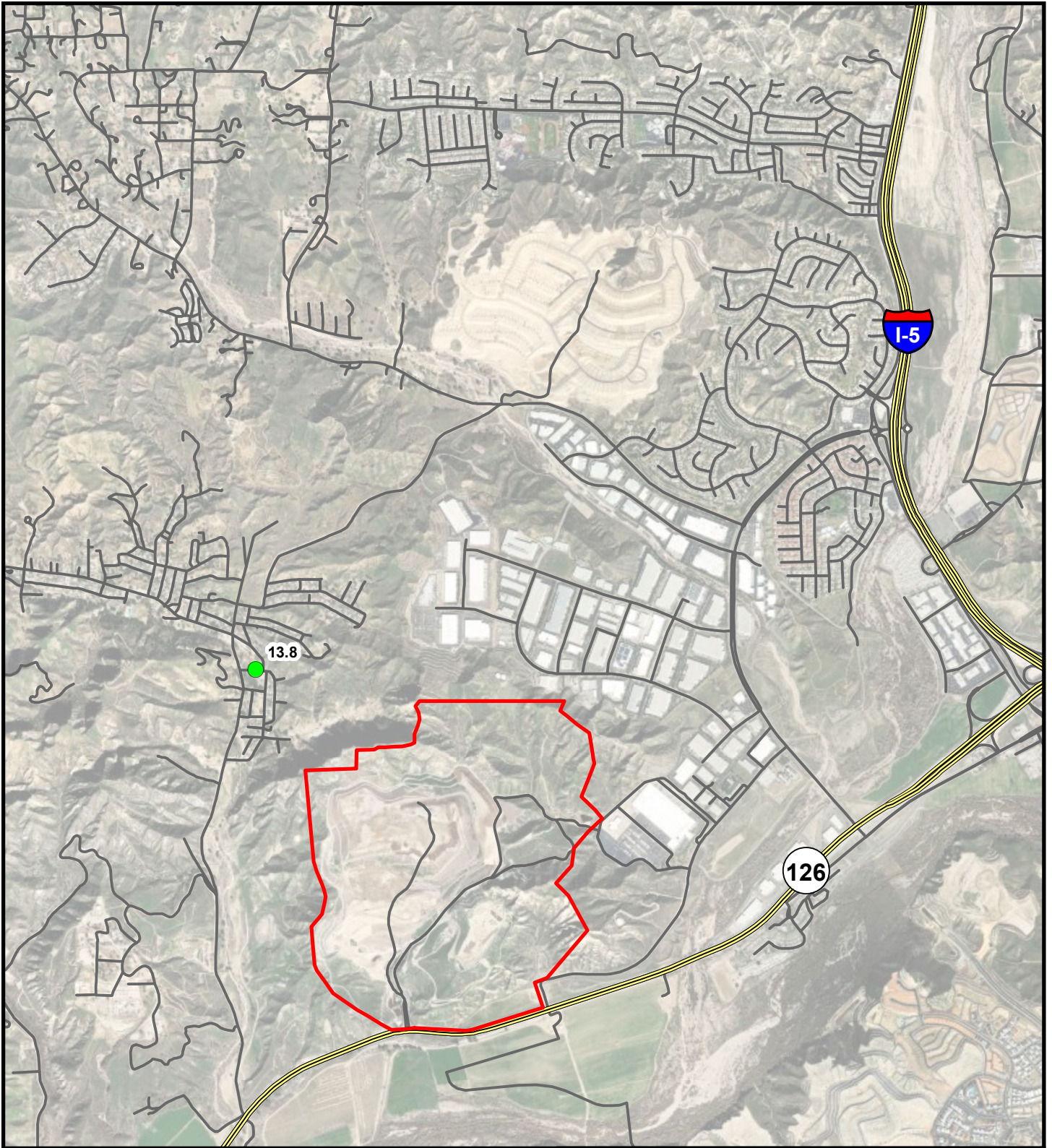
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 50
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F050.mxd		



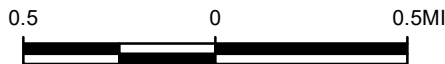
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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/04/2023**

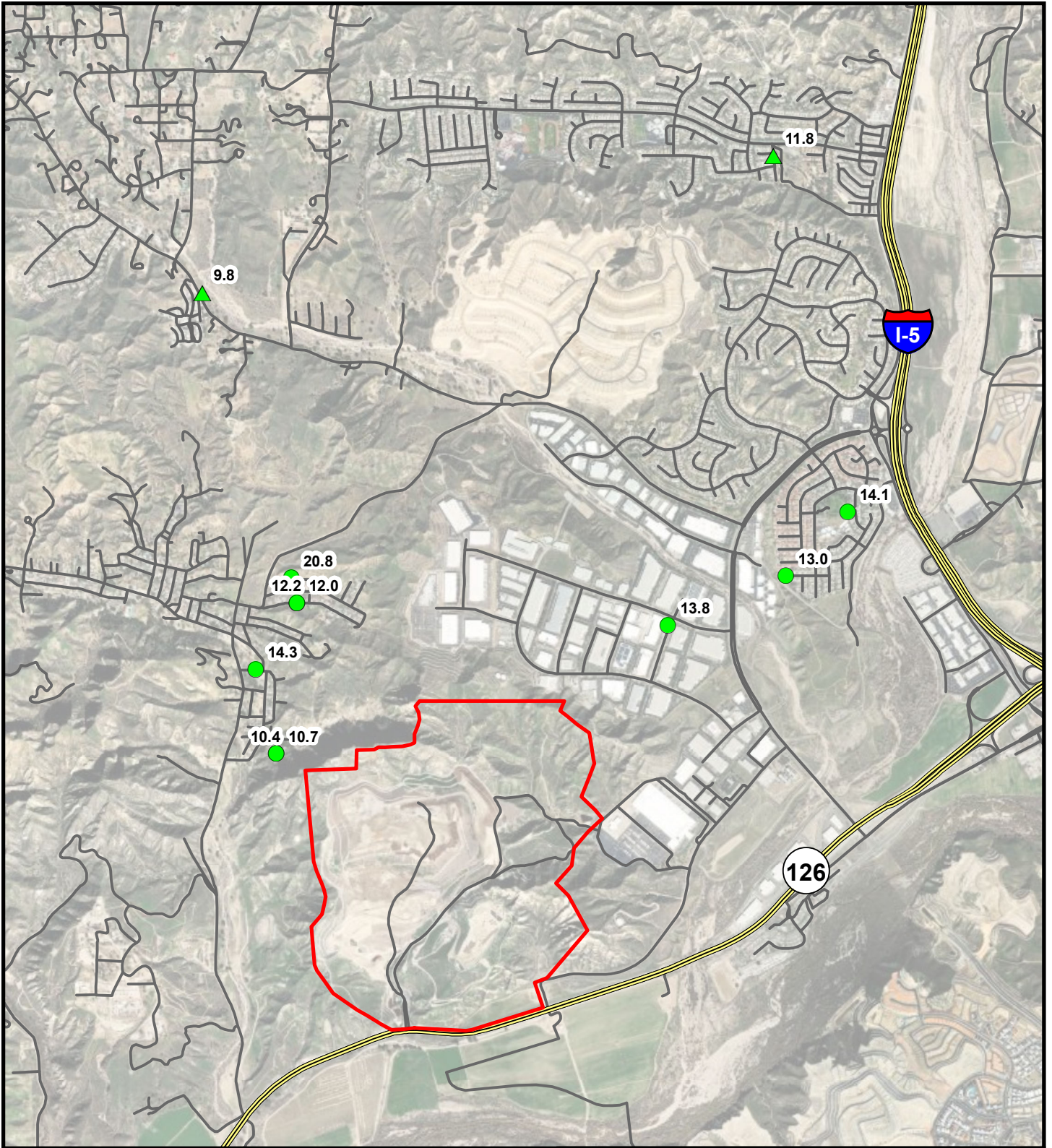
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5P
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05P.mxd		

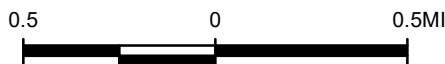


LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGMS.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/06/2023**

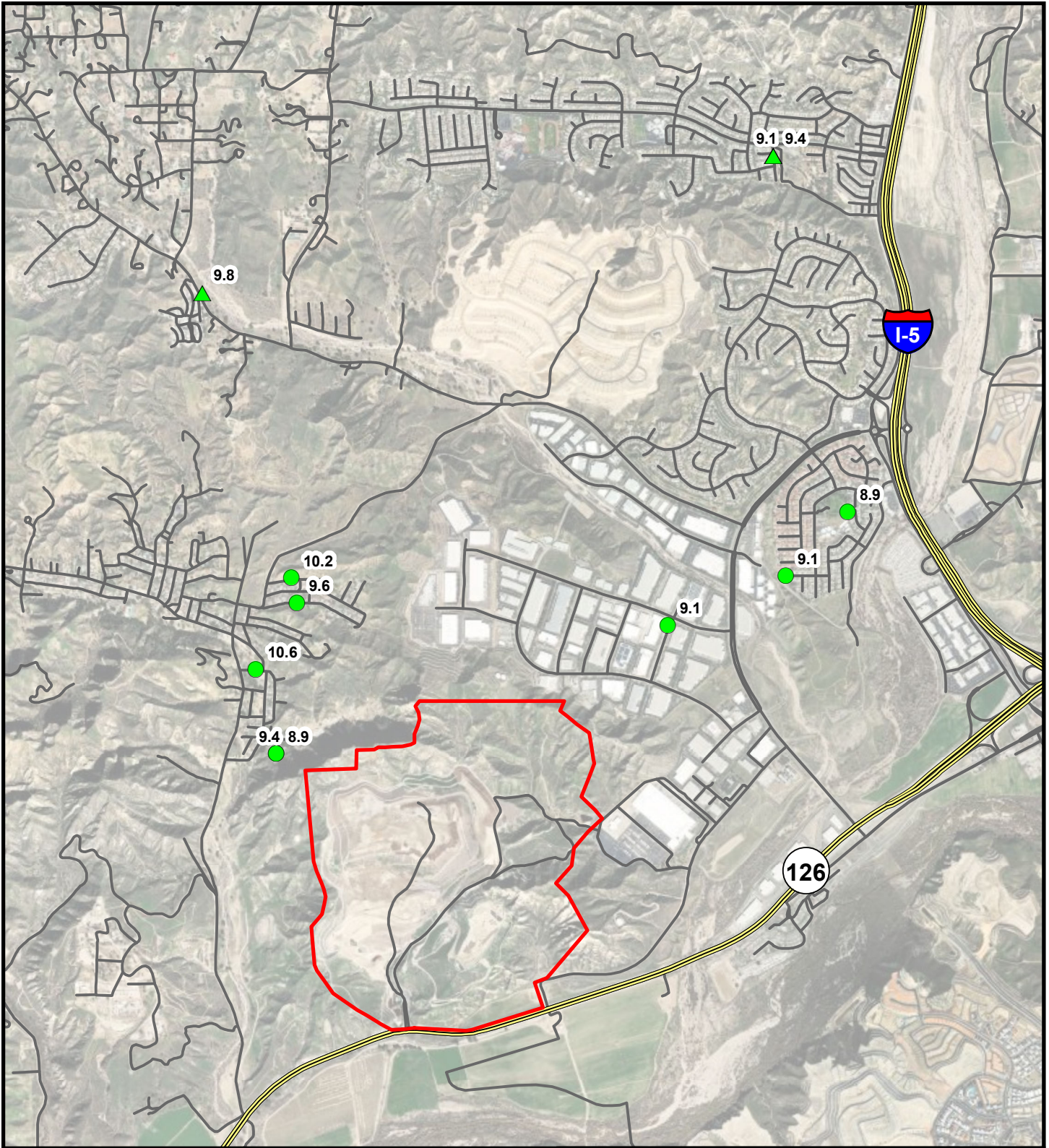
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5Q
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05Q.mxd		



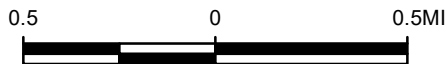
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/08/2023**

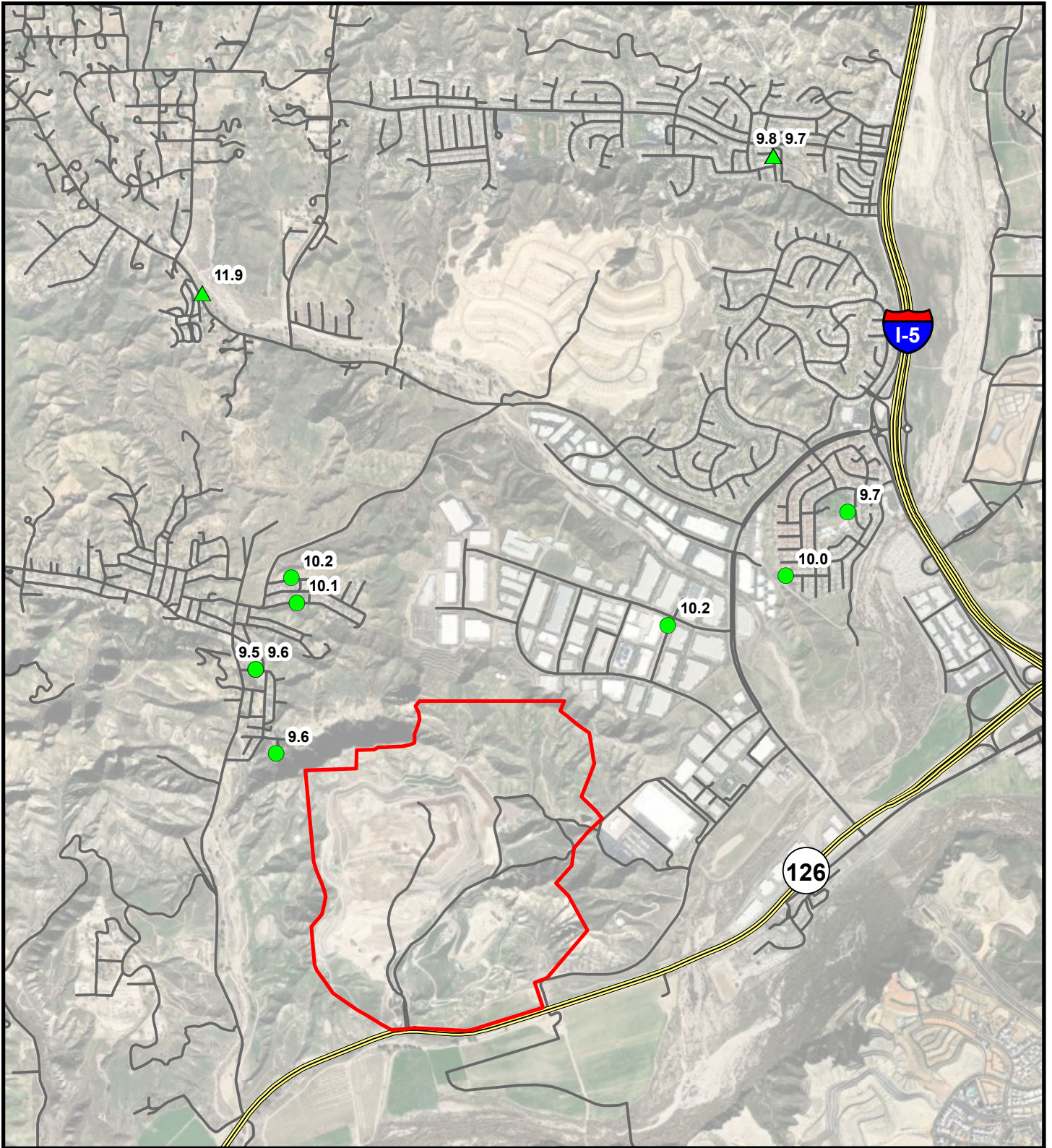
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5R
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05R.mxd		



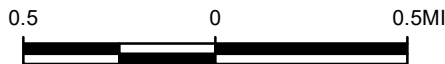
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LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/09/2023**

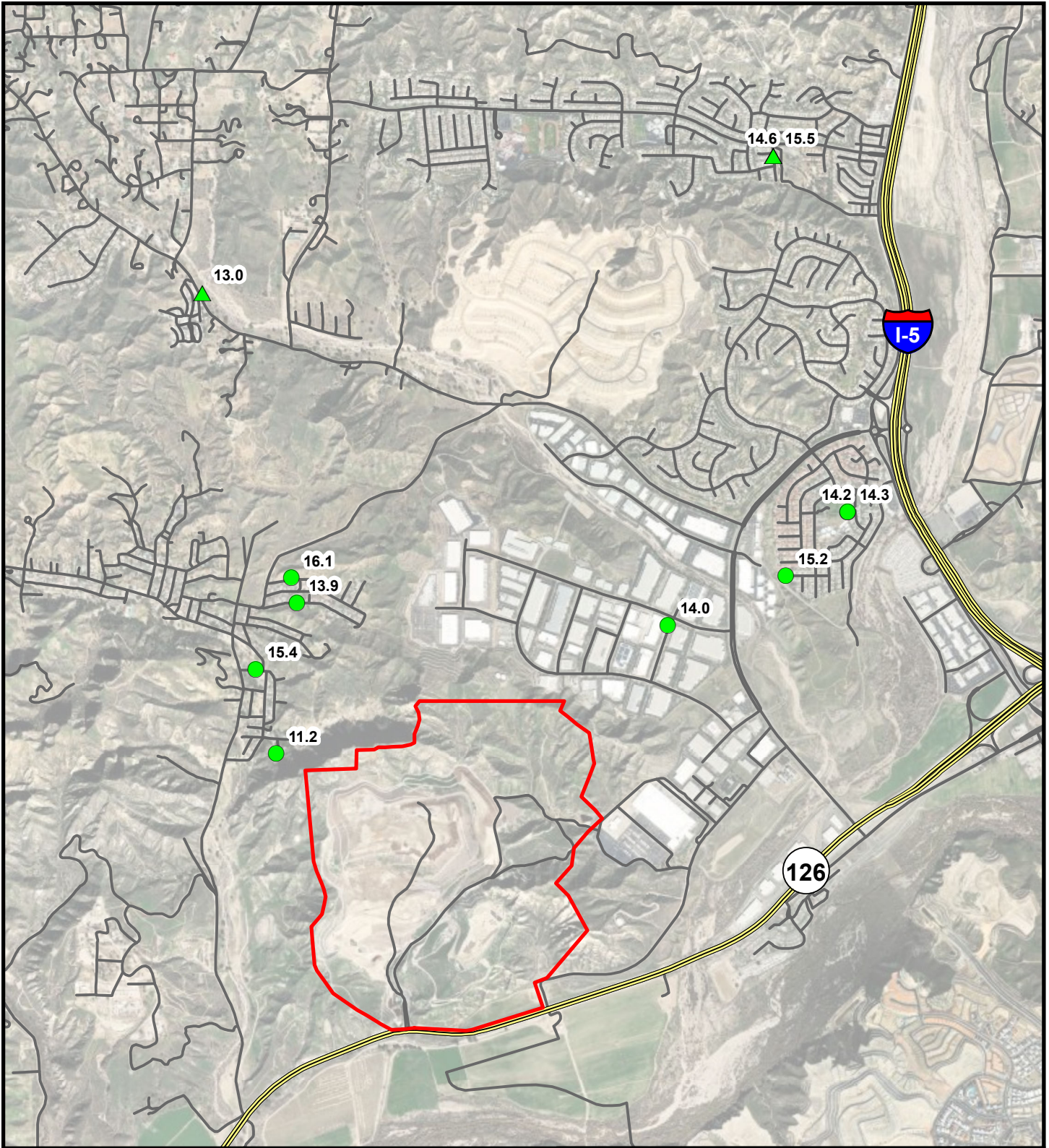
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5S
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05S.mxd		

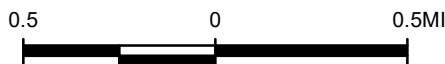


LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/11/2023**

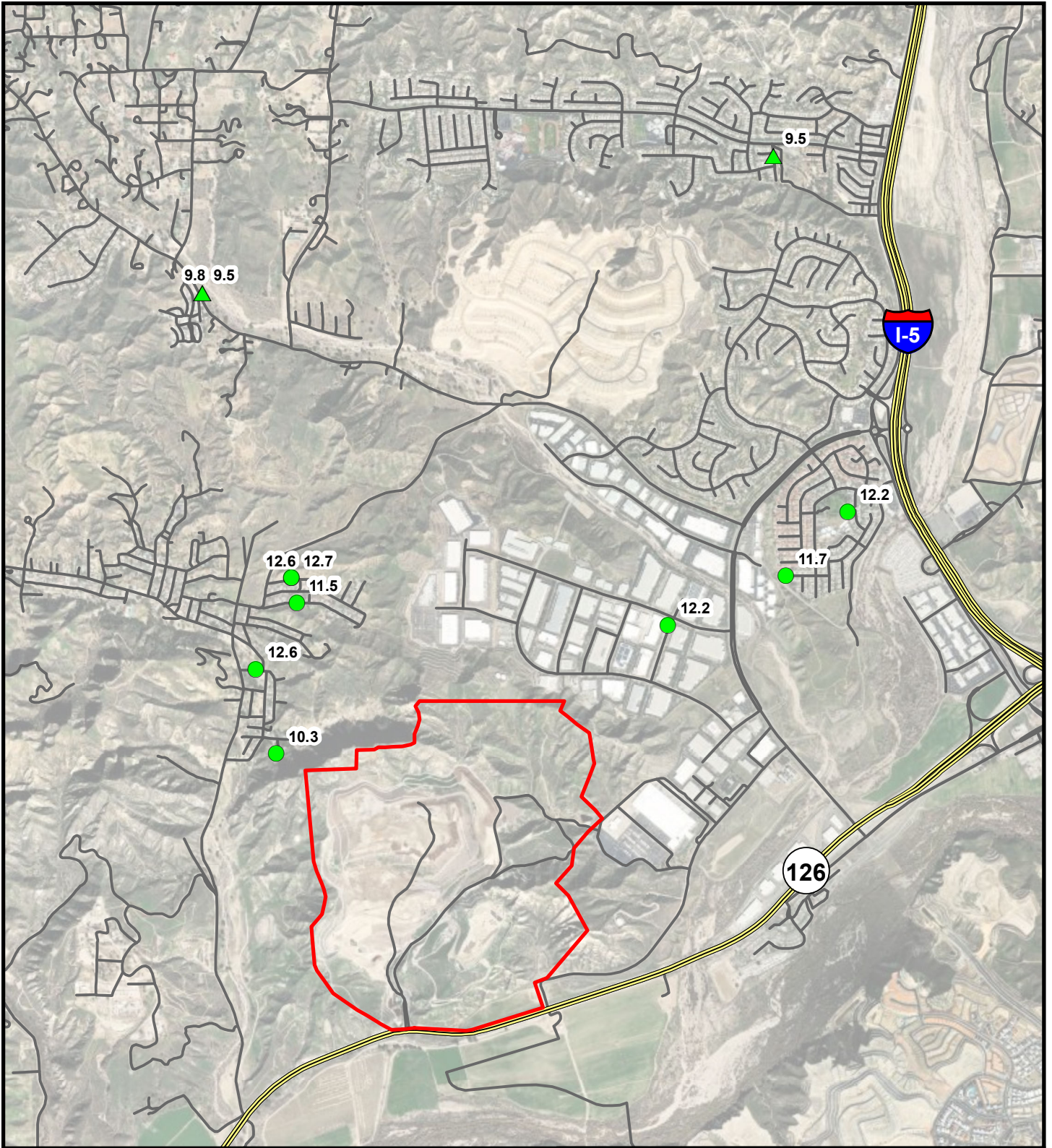
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5T
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05T.mxd		

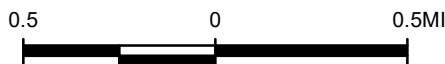


LEGEND

- SITE SAMPLE LOCATION
- BACKGROUND SAMPLE LOCATION
- ROAD
- MAJOR ROAD
- LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/13/2023**

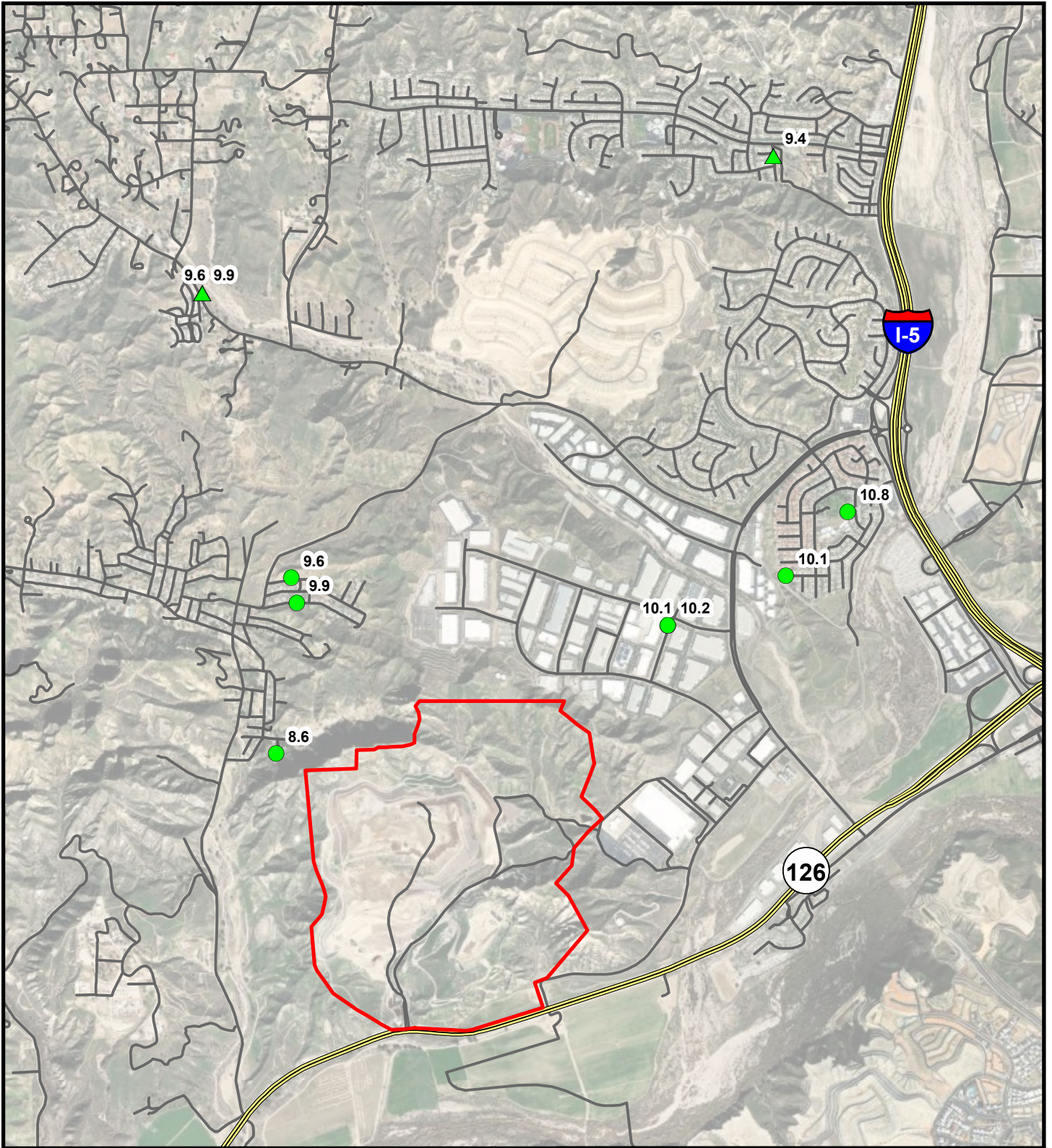
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:






LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 5U
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05U.mxd		

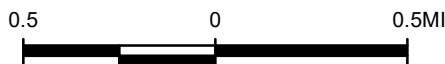


LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL VOCs IN
AMBIENT AIR
12/16/2023**

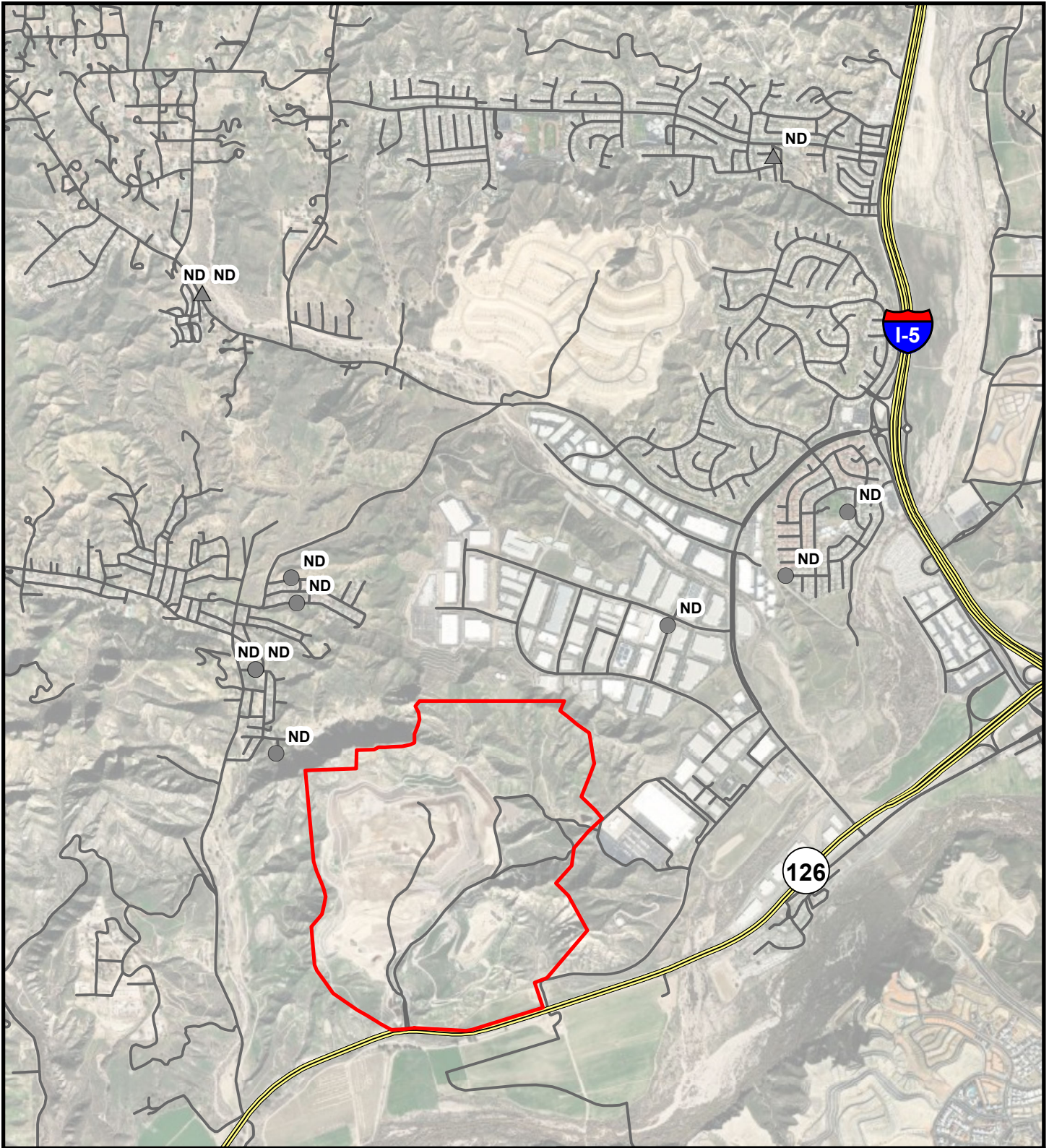
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 5V
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F05V.mxd		



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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGMS.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL SULFUR IN
AMBIENT AIR
10/31/2023**

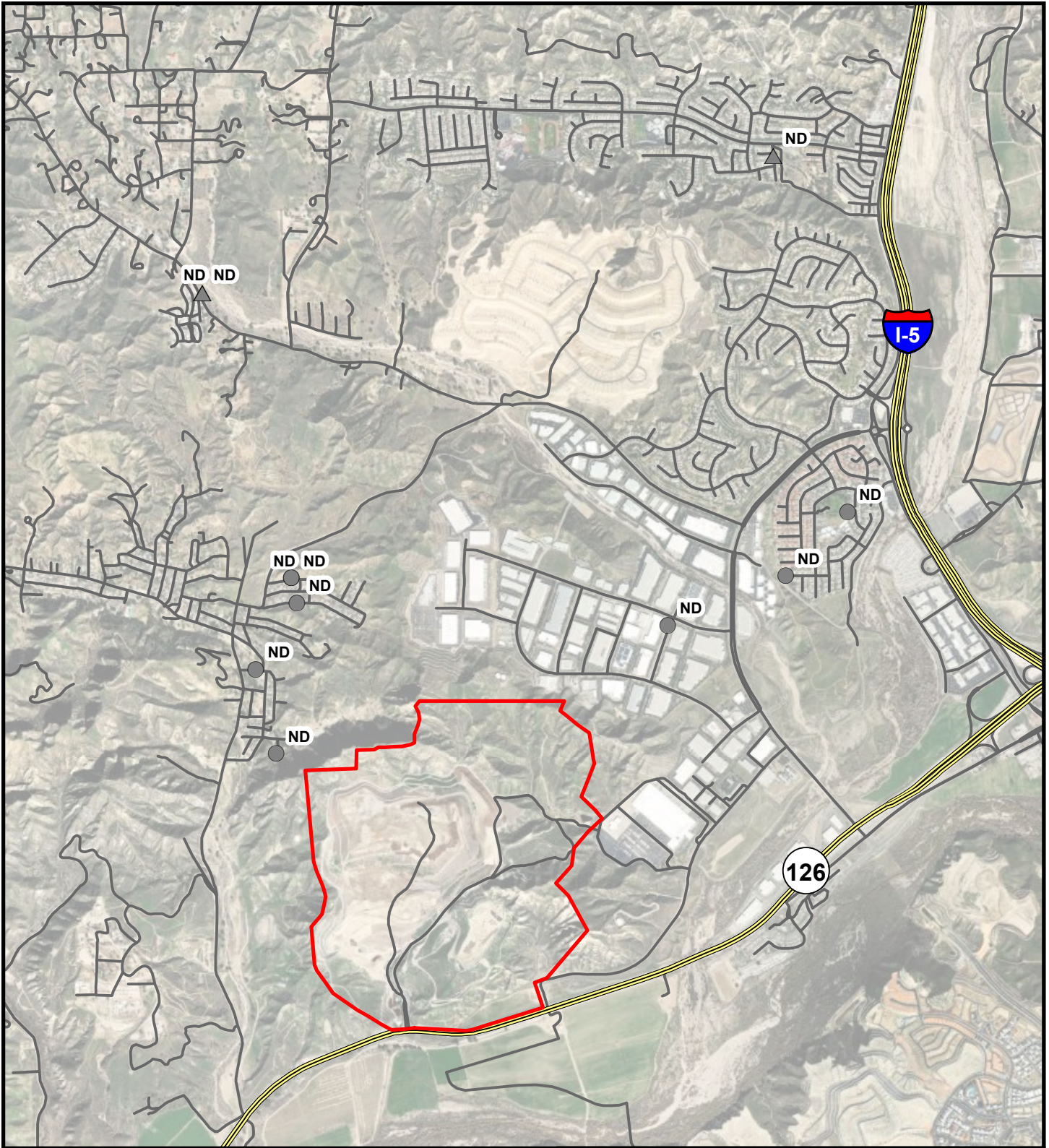
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:






LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 6A
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06A.mxd		

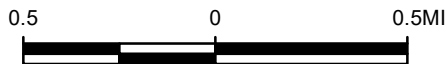


LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGMS.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL SULFUR IN
AMBIENT AIR
11/6/2023**

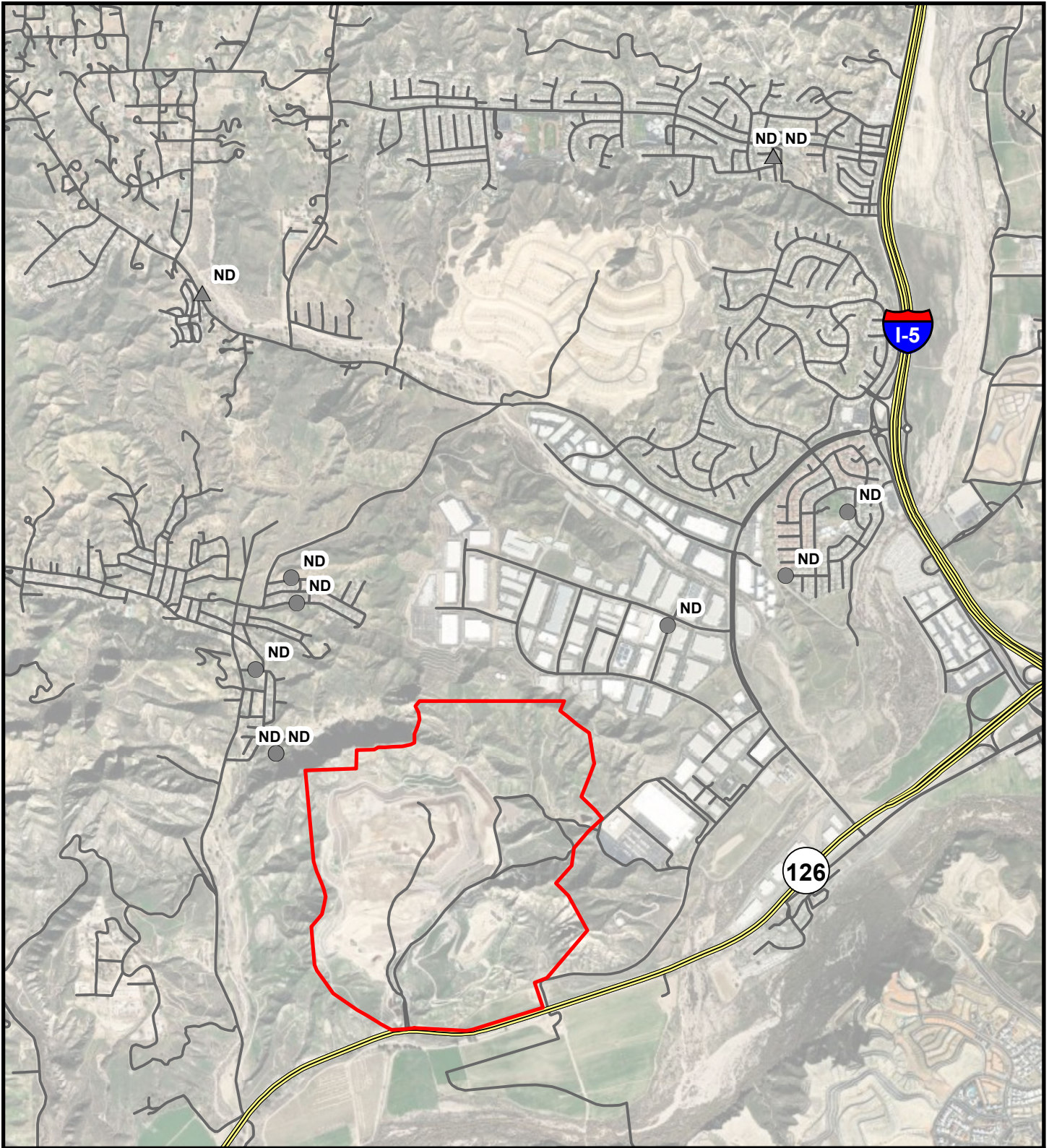
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 6B
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06B.mxd		



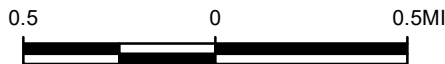
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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGMS.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL SULFUR IN
AMBIENT AIR
11/14/2023**

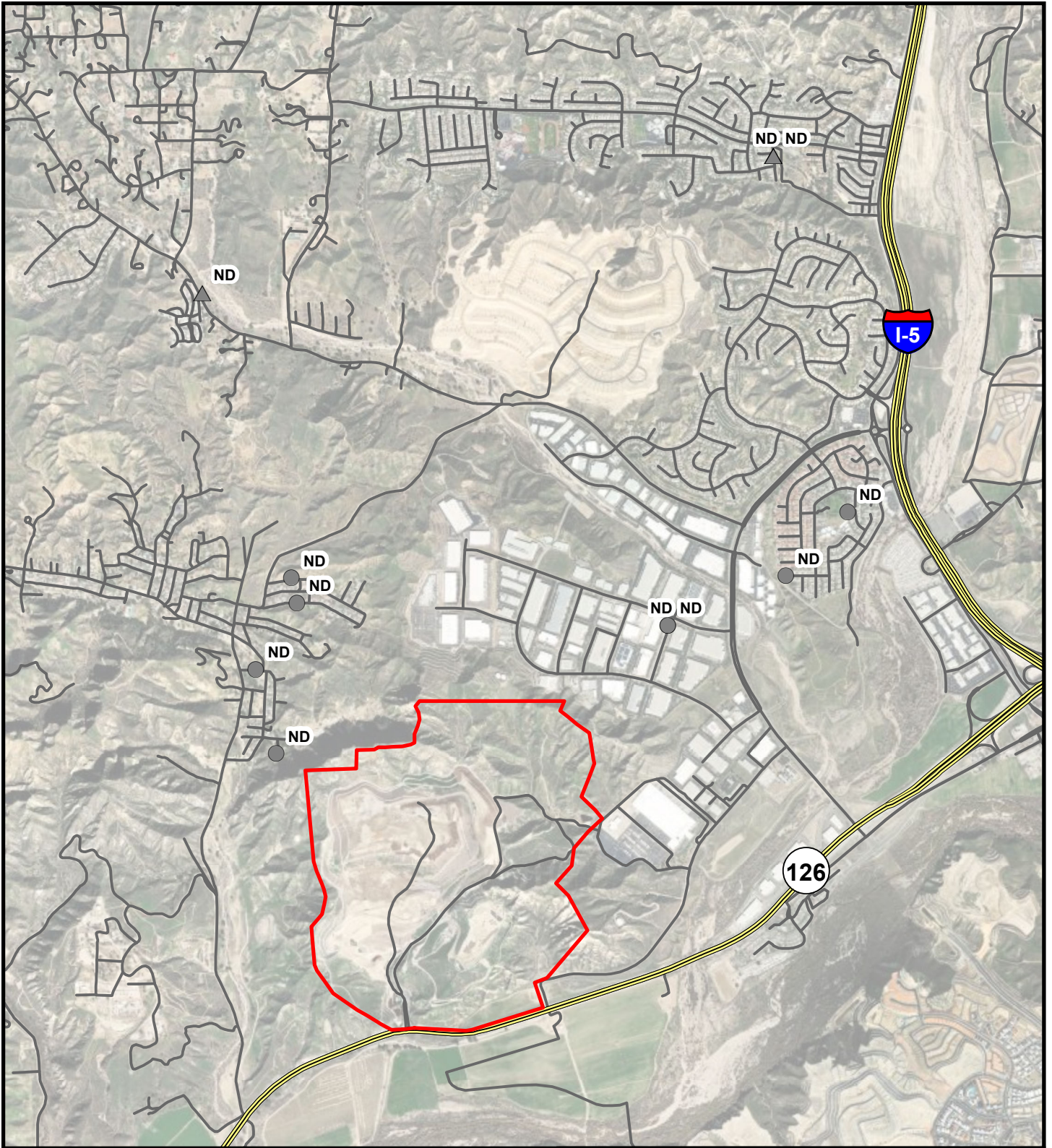
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 6C
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06C.mxd		



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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL SULFUR IN
AMBIENT AIR
11/20/2023**

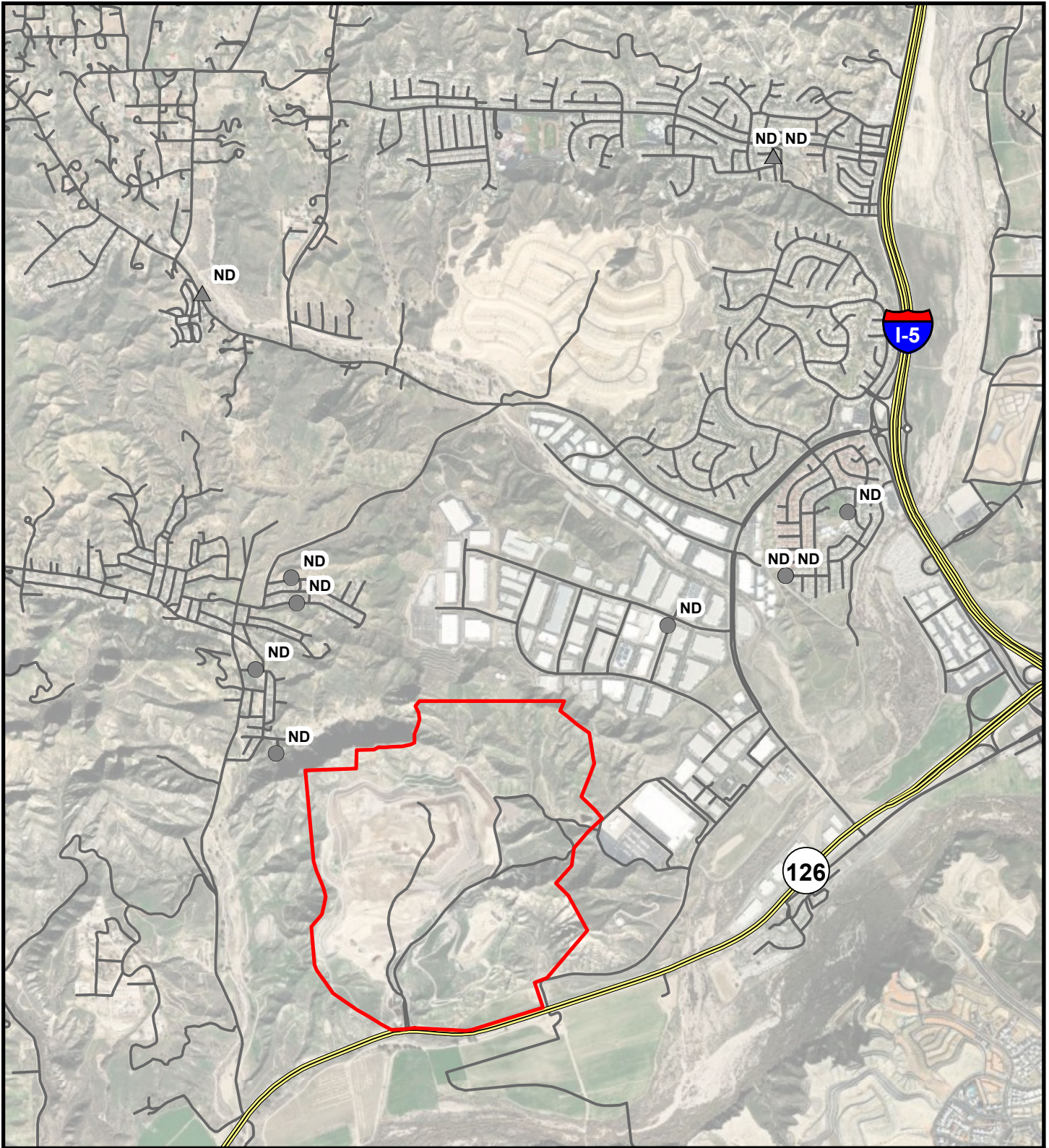
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 6D
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06D.mxd		



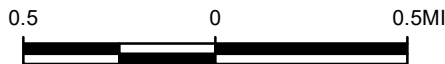
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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL SULFUR IN
AMBIENT AIR
11/27/2023**

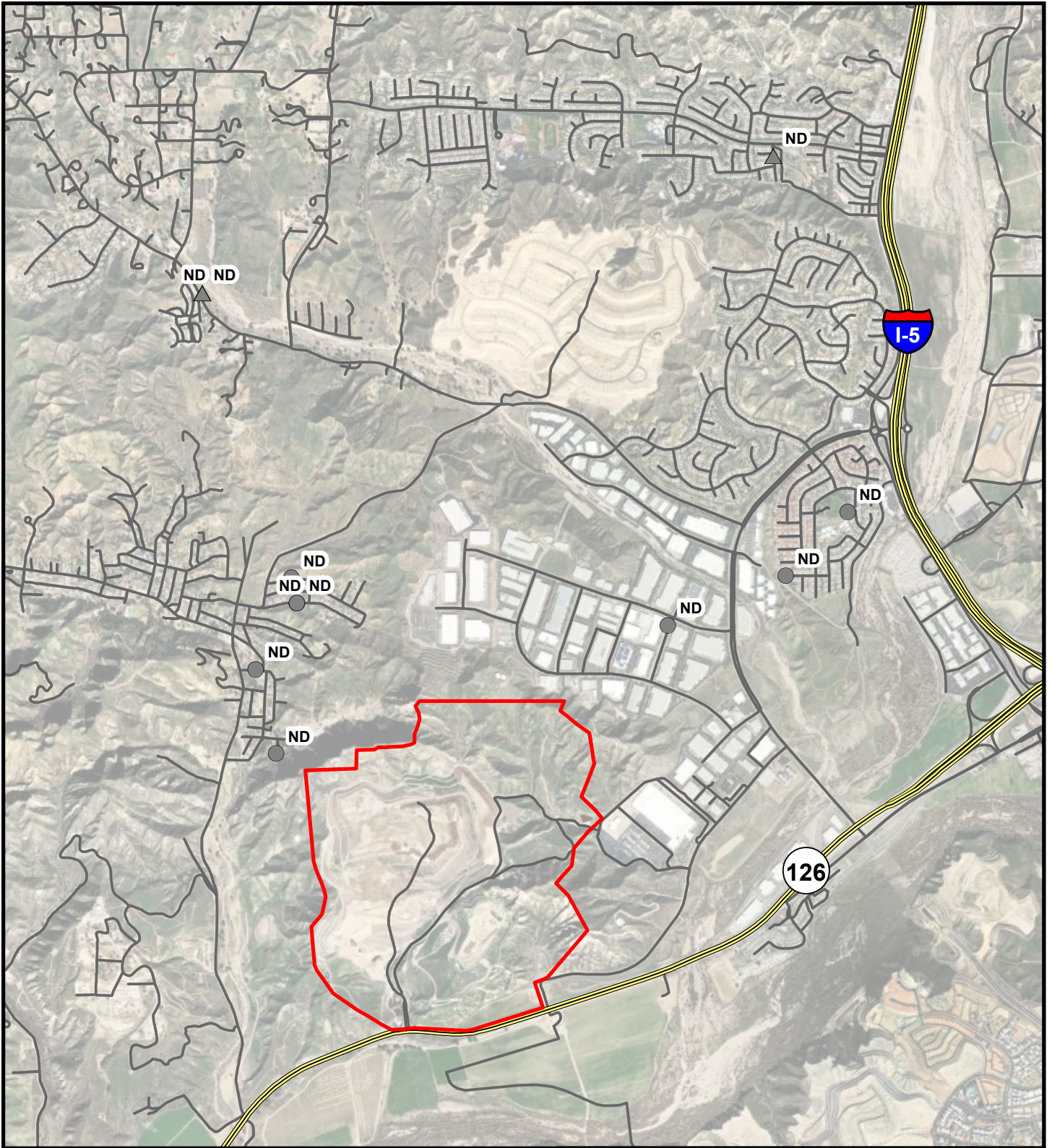
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 6E
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06E.mxd		



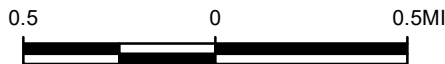
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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UG/M3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL SULFUR IN
AMBIENT AIR
12/05/2023**

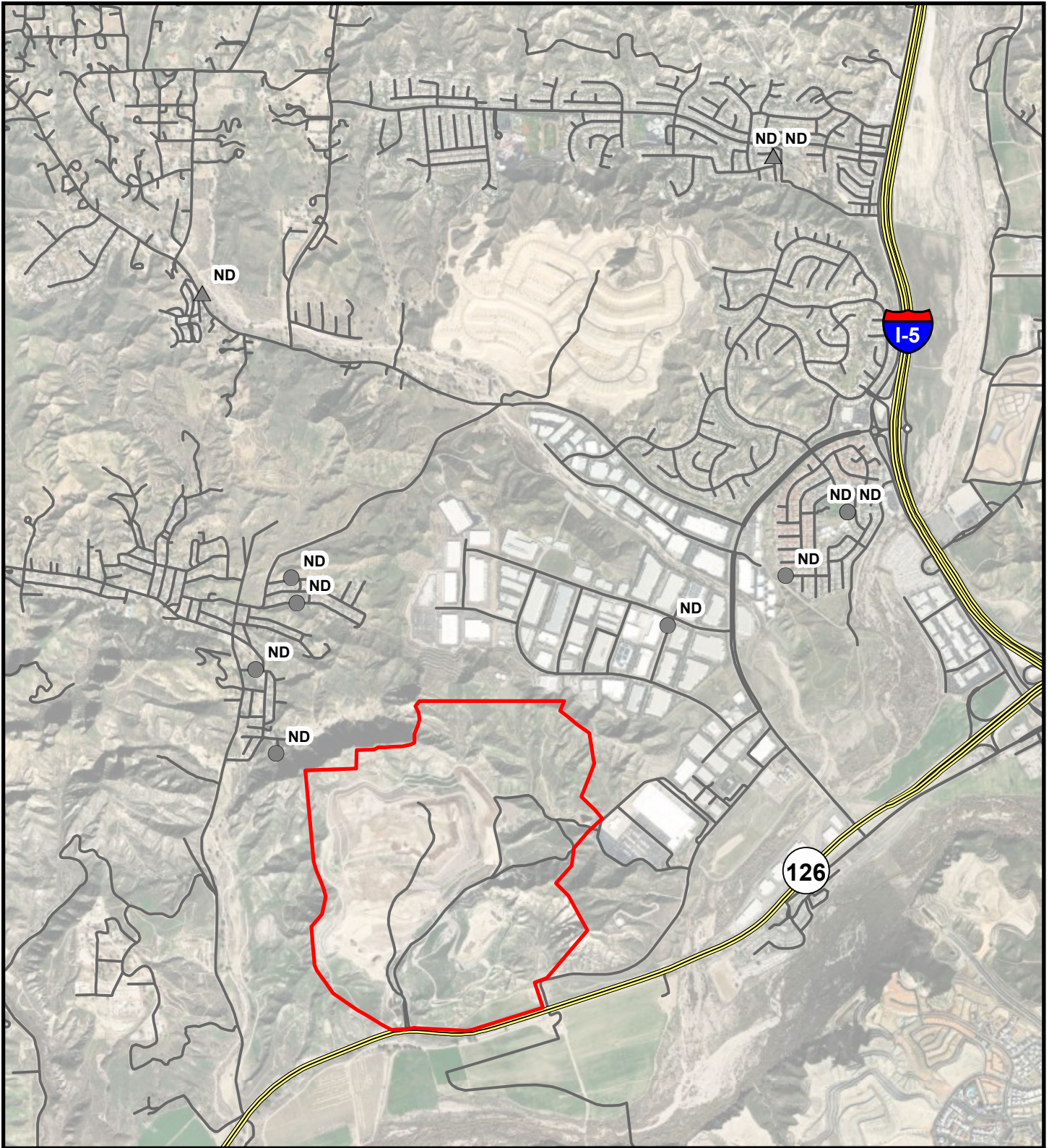
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:

LOS ANGELES COUNTY








Compiled by: JNL	Date: 12/19/23	FIGURE 6F
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06F.mxd		



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LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGM3.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
6. MULTIPLE CONCENTRATIONS SHOWN AT A SAMPLE LOCATION ARE RESULTS FOR A PARENT SAMPLE AND DUPLICATE SAMPLE.



Title:

**TOTAL SULFUR IN
AMBIENT AIR
12/11/2023**

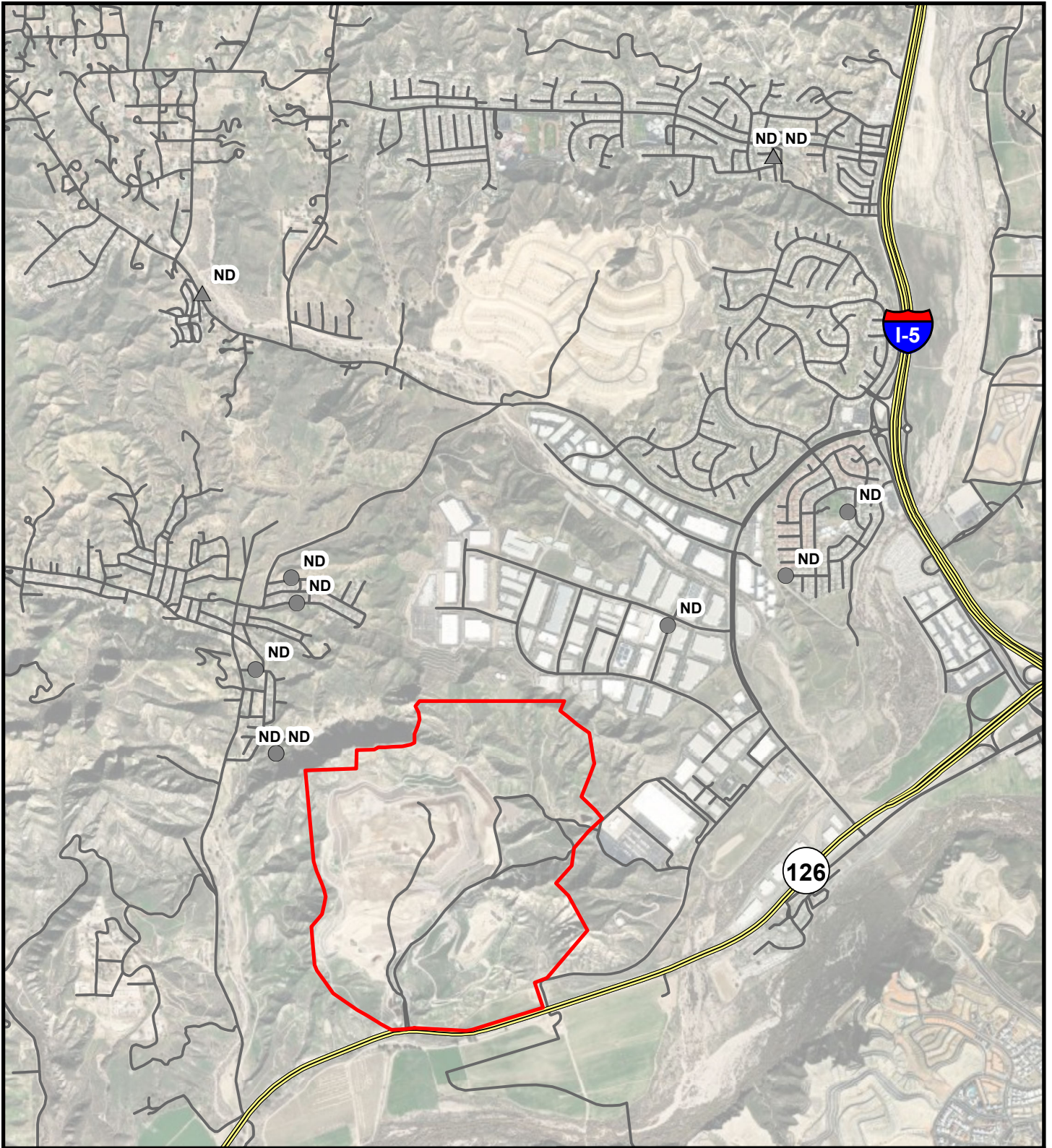
CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

Prepared for:






LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 6G
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06G.mxd		

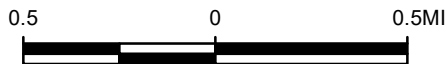


LEGEND

-  SITE SAMPLE LOCATION
-  BACKGROUND SAMPLE LOCATION
-  ROAD
-  MAJOR ROAD
-  LANDFILL BOUNDARY

NOTES

1. ALL FEATURES SHOWN ARE APPROXIMATE.
2. AERIAL IMAGERY PROVIDED BY ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY.
3. VOC CONCENTRATIONS SHOWN ARE IN UGMS.
4. SULFUR CONCENTRATIONS SHOWN ARE IN PPBV.
5. ND = CONCENTRATION NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.
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Title:

**TOTAL SULFUR IN
AMBIENT AIR
12/12/2023**

CHIQUITA CANYON LANDFILL
LOS ANGELES COUNTY, CALIFORNIA

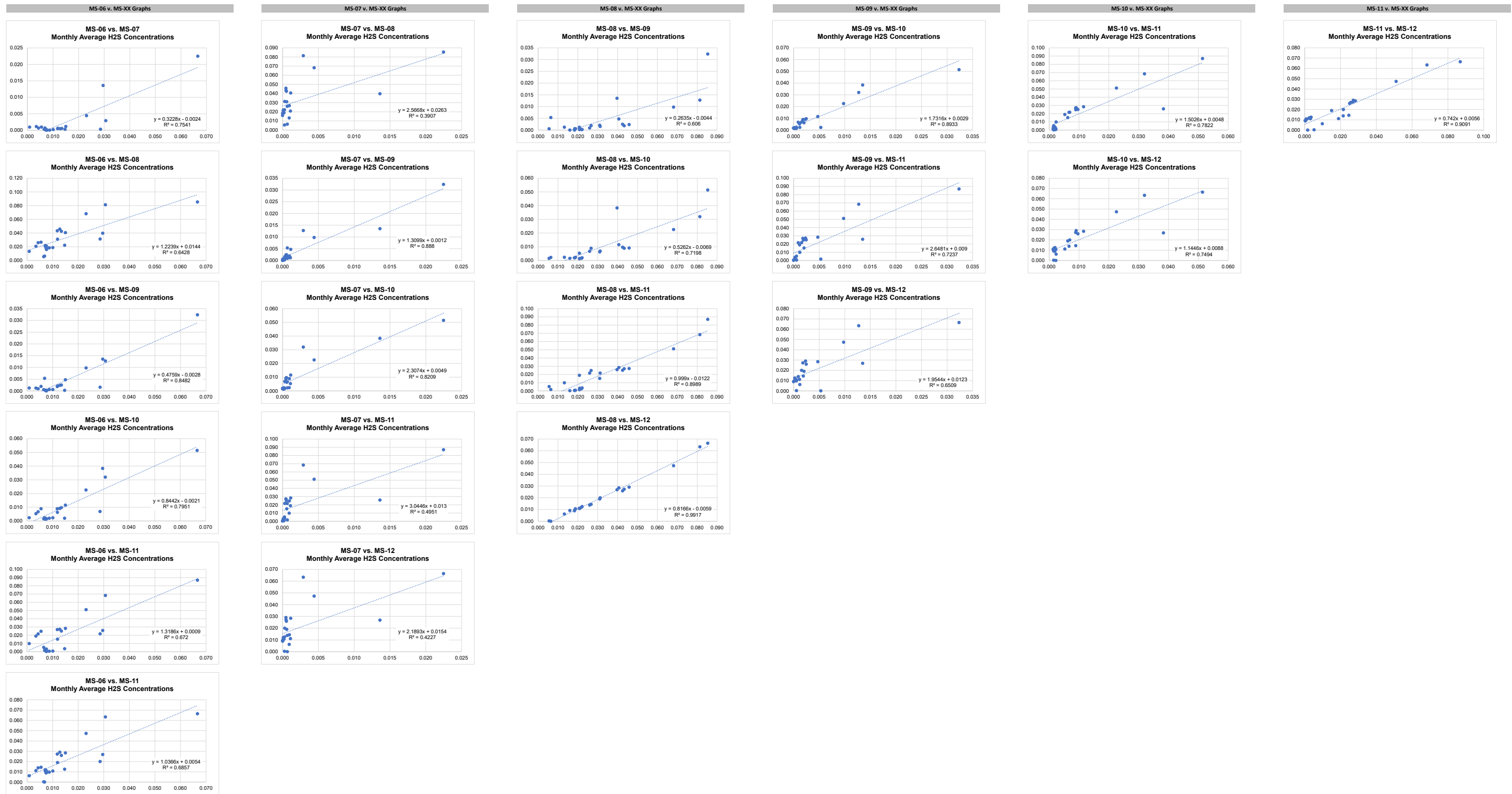
Prepared for:

LOS ANGELES COUNTY



Compiled by: JNL	Date: 12/19/23	FIGURE 6H
Prepared by: JNL	Scale: AS SHOWN	
Project Mgr: RM	Project: 4437.0001S000	
File: 2471.0002S000.F06H.mxd		

Figure 7. Cross-correlation of H2S measurements from SCS continuous monitors



TABLES

1. Chiquita Canyon Landfill 2023 Chronology
2. RPDs for Collected Ambient Air Samples - VOCs
3. Roux Odor Observations
4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
6. Sulfur Compound and VOC Results Compared to Odor Thresholds

Table 1. Chiquita Canyon Landfill 2023 Chronology
Chiquita Canyon Landfill, Castaic, California

Date	Event	Source
1/6/2023	First recorded complaint in 2023 of nuisance odor from Landfill by a Val Verde resident.	Complaint-Resolution-Q1-2023
2/13/2023	Initial weekly air monitoring report issued by SCS Engineers, detailing landfill gas (LFG) sulfur compounds measurements, emissions per day, and LFG treatment system calculations.	CCL-Monthly-Report-for-Variance-02.13.23
2/22/2023	Chiquita submitted root cause analysis to SCAQMD identifying that the odor source is an increase in landfill gas production caused by a reaction occurring deep within an older section of the Landfill due to high heat conditions in compacted old waste, causing rapid degradation through a chemical reaction that produces gases, including odorous sulfur compounds.	2023-09-15-FINAL-Response-to-August-18-DRP-NOV
2/27/2023	First recorded NOV for 2023, for failure to provide lab analysis and Draeger tube readings for landfill gas.	https://chiquitacanyon.com/wp-content/uploads/2023/08/02.27.23.pdf
4/2023	Chiquita began noticing leachate seepage on the western and northwestern areas of the Landfill.	https://chiquitacanyon.com/reports/odor-mitigation/
4/6/2023	Notice to Comply issued regarding leaks exceeding 500ppmv TOC as methane in the gas collection and control systems. Increase in odor complaints beginning in April 2023.	https://chiquitacanyon.com/wp-content/uploads/2023/08/04.06.23.pdf Complaint-Log-2023
5/17/2023	NOV issued for discharging "quantities of air contaminants to cause injury, detriment, nuisance, or annoyance to a considerable number of persons."	https://chiquitacanyon.com/wp-content/uploads/2023/08/05.17.23.pdf
4/2023 - 7/2023	Chiquita installed and began operating five deep trench collectors in the reaction area. Between April and July 2023, Chiquita also installed six additional leachate extraction pumps along the west slope.	2023-08-18-FINAL-Response-to-Public-Works-Comments-on-Condition-69-Report
8/8/2023	LA DPH issued letter stating concern with health impacts caused by persistent odors on persons living near the landfill. Recommended implementation of additional monitoring and air sampling, and measurement of emissions rate from Landfill source area.	2023-08-08-DPH-Letter-to-Waste-Connections
8/15/2023	Chiquita issued response to LA DPH outlining the actions being taken / planned to address odors, including expansion of the air monitoring program to include sulfur and other constituents, a flux chamber study to evaluate emissions, installation of a geosynthetic cover over the reaction area to limit odor migration (approximately 30 acres), research into more portable thermal oxidizers or rental flares for gas control, and distribution of in-home air filtration devices to local community members.	2023-08-15-Chiquitas-Response-to-Public-Healths-Aug-8th-letter
8/18/2023	LA County Planning issued an order to comply, stating that the Landfill is in violation of several Conditions of the CUP because the Landfill is creating an odor nuisance in the surrounding communities.	2023-08-18-FINAL-Response-to-Public-Works-Comments-on-Condition-69-Report
9/6/2023	Chiquita entered into a Stipulated Order for Abatement with the South Coast AQMD, requiring the implementation of many reaction- and odor-related mitigation measures.	https://chiquitacanyon.com/reports/odor-mitigation/
10/20/2023	Sample collected of leachate seepage. No exceedances detected.	https://chiquitacanyon.com/reports/odor-mitigation/
10/31/2023	SCS issued letter to Chiquita outlining pilot study treatment options for dimethyl sulfide (DMS) as potential additions to the landfill gas treatment system.	2023-10-31-DMS-Treatment-System-Potential-Final_V1.0_2023-10-31
10/31/2023	Chiquita status update regarding geosynthetic cover material installation and grading. Grading is underway, and placement of the cover material is estimated to begin in mid-December and will take 8-12 weeks.	2023-10-31-Geomembrane-Procurement-and-Installation-Update
10/31/2023	CTEH issued Health Risk Screening of the monthly continuous air monitoring and discrete air sampling data for August and September 2023. No adverse health effects were anticipated; sulfur levels were below applicable exposure thresholds.	2023-10-31-CTEH-Monthly-Report-CCL-September-2023
11/2023	Repairs underway on the west side of the Landfill, including the installation of a vertical bank and trench that will help capture and intercept liquid coming out of the western slope, and route to the leachate collection system. The installation of additional vertical gas extraction wells and dewatering pumps throughout the Landfill is showing an increase in the effective removal of liquids from the Landfill.	https://chiquitacanyon.com/reports/odor-mitigation/
11/6/2023	Landfill Best Management Practices Report prepared by Blue Ridge Services Montana, Inc. in accordance with the 9/6/2023 Stipulated Order. Identified preferred mitigation measure as installation of a geomembrane or synthetic cap over the reaction area to contain excess emissions, including the collection and treatment of LFG contained under the cap. Recommended expansion of planned geomembrane installation area.	Landfill-Best-Management-Practices-FINAL-06Nov2023
11/15/2023	Chiquita installed and began operating a new permanent flare (Flare 3) to address the increase in production of landfill gas.	https://chiquitacanyon.com/reports/odor-mitigation/
11/15/2023	SCS issued 3rd Quarter 2023 CAMP Report. During the 3rd quarter, zero stations had exceedances of discrete sampling reporting thresholds for monthly samples. For the continuous monitoring, there were 61 exceedances for H ₂ S over a 1-hour averaging period. There were 7 exceedances for PM10 and 5 exceedances for PM2.5 over a 24-hour averaging period.	2023-11-15-Third-Quarter-2023-CAMP-Air-Monitoring-Report
11/16/2023	Most recent NOV available on Chiquita Canyon website, for creation of nuisance odor in the surrounding community. This NOV has been recorded approximately 10-15 times per month since May 2023.	NOV / 11.16.23
11/17/2023	Chiquita issued update to LA County summarizing the mitigation measures that have been completed and are currently underway. 49 new vertical wells have been installed and connected to the existing gas collection system, 22 new pumps have been installed in vertical wells, 3,000 feet of semi-permanent vapor odor control has been installed in the reaction area, and installation of the geosynthetic cover is underway.	2023-11-17-DRP-NOV-Extension-Request-Letter

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/1/2023	ROUX03	1,1,1-Trichloroethane	0.1	U	ROUX03 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/1/2023	ROUX03	1,1,2-Trichloro-1,2,2-trifluoroethane	0.61		ROUX03 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.61		0%
11/1/2023	ROUX03	1,1,2-Trichloroethane	0.1	U	ROUX03 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/1/2023	ROUX03	1,1-Dichloroethane	0.05	U	ROUX03 DUP	1,1-Dichloroethane	0.05	U	0%
11/1/2023	ROUX03	1,1-Dichloroethene	0.05	U	ROUX03 DUP	1,1-Dichloroethene	0.05	U	0%
11/1/2023	ROUX03	1,2-Dibromoethane	0.2	U	ROUX03 DUP	1,2-Dibromoethane	0.2	U	0%
11/1/2023	ROUX03	1,2-Dichlorobenzene	0.2	U	ROUX03 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/1/2023	ROUX03	1,3-Dichlorobenzene	0.2	U	ROUX03 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/1/2023	ROUX03	Benzyl chloride	0.5	U	ROUX03 DUP	Benzyl chloride	0.5	U	0%
11/1/2023	ROUX03	Chlorobenzene	0.1	U	ROUX03 DUP	Chlorobenzene	0.1	U	0%
11/1/2023	ROUX03	Chloroform	0.09		ROUX03 DUP	Chloroform	0.09		0%
11/1/2023	ROUX03	cis-1,2-Dichloroethene	0.05	U	ROUX03 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/1/2023	ROUX03	trans-1,2-Dichloroethene	0.05	U	ROUX03 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/1/2023	ROUX03	trans-1,3-Dichloropropene	0.05	U	ROUX03 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/1/2023	ROUX03	Trichloroethene	0.1	U	ROUX03 DUP	Trichloroethene	0.1	U	0%
11/1/2023	ROUX03	Trichlorofluoromethane	1.5		ROUX03 DUP	Trichlorofluoromethane	1.5		0%
11/1/2023	ROUX03	Vinyl chloride	0.02	U	ROUX03 DUP	Vinyl chloride	0.02	U	0%
11/3/2023	ROUX01	1,1,1-Trichloroethane	0.1	U	ROUX01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/3/2023	ROUX01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.58		ROUX01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.58		0%
11/3/2023	ROUX01	1,1,2-Trichloroethane	0.1	U	ROUX01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/3/2023	ROUX01	1,1-Dichloroethane	0.05	U	ROUX01 DUP	1,1-Dichloroethane	0.05	U	0%
11/3/2023	ROUX01	1,1-Dichloroethene	0.05	U	ROUX01 DUP	1,1-Dichloroethene	0.05	U	0%
11/3/2023	ROUX01	1,1-Difluoroethane	5	U	ROUX01 DUP	1,1-Difluoroethane	5	U	0%
11/3/2023	ROUX01	1,2-Dibromoethane	0.2	U	ROUX01 DUP	1,2-Dibromoethane	0.2	U	0%
11/3/2023	ROUX01	1,2-Dichlorobenzene	0.2	U	ROUX01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/3/2023	ROUX01	1,3-Dichlorobenzene	0.2	U	ROUX01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/3/2023	ROUX01	Benzyl chloride	0.5	U	ROUX01 DUP	Benzyl chloride	0.5	U	0%
11/3/2023	ROUX01	Chlorobenzene	0.1	U	ROUX01 DUP	Chlorobenzene	0.1	U	0%
11/3/2023	ROUX01	cis-1,2-Dichloroethene	0.05	U	ROUX01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/1/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/1/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/1/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
11/1/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
11/1/2023	ROUXB01	1,1-Difluoroethane	5	U	ROUXB01 DUP	1,1-Difluoroethane	5	U	0%
11/1/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
11/1/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/1/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/1/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/1/2023	ROUXB01	Benzene	0.23		ROUXB01 DUP	Benzene	0.23		0%
11/1/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
11/1/2023	ROUXB01	Carbon tetrachloride	0.56		ROUXB01 DUP	Carbon tetrachloride	0.56		0%
11/1/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
11/1/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/1/2023	ROUXB01	Dichlorodifluoromethane	2.5		ROUXB01 DUP	Dichlorodifluoromethane	2.5		0%
11/1/2023	ROUXB01	Tetrachloroethene	0.1	U	ROUXB01 DUP	Tetrachloroethene	0.1	U	0%
11/1/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/1/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/1/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
11/1/2023	ROUXB01	Trichlorofluoromethane	1.4		ROUXB01 DUP	Trichlorofluoromethane	1.4		0%
11/1/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/3/2023	ROUX01	trans-1,2-Dichloroethene	0.05	U	ROUX01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/3/2023	ROUX01	trans-1,3-Dichloropropene	0.05	U	ROUX01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/3/2023	ROUX01	Trichloroethene	0.1	U	ROUX01 DUP	Trichloroethene	0.1	U	0%
11/3/2023	ROUX01	Trichlorofluoromethane	1.4		ROUX01 DUP	Trichlorofluoromethane	1.4		0%
11/3/2023	ROUX01	Vinyl chloride	0.02	U	ROUX01 DUP	Vinyl chloride	0.02	U	0%
11/5/2023	ROUX07	1,1,1-Trichloroethane	0.1	U	ROUX07 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/5/2023	ROUX07	1,1,2-Trichloroethane	0.1	U	ROUX07 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/5/2023	ROUX07	1,1-Dichloroethane	0.05	U	ROUX07 DUP	1,1-Dichloroethane	0.05	U	0%
11/5/2023	ROUX07	1,1-Dichloroethene	0.05	U	ROUX07 DUP	1,1-Dichloroethene	0.05	U	0%
11/5/2023	ROUX07	1,2-Dibromoethane	0.2	U	ROUX07 DUP	1,2-Dibromoethane	0.2	U	0%
11/5/2023	ROUX07	1,2-Dichlorobenzene	0.2	U	ROUX07 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/5/2023	ROUX07	1,3-Dichlorobenzene	0.2	U	ROUX07 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/5/2023	ROUX07	1,4-Dichlorobenzene	0.05	J	ROUX07 DUP	1,4-Dichlorobenzene	0.05	J	0%
11/5/2023	ROUX07	Benzene	0.62		ROUX07 DUP	Benzene	0.62		0%
11/5/2023	ROUX07	Benzyl chloride	0.5	U	ROUX07 DUP	Benzyl chloride	0.5	U	0%
11/5/2023	ROUX07	Chlorobenzene	0.1	U	ROUX07 DUP	Chlorobenzene	0.1	U	0%
11/5/2023	ROUX07	Chloroform	0.17		ROUX07 DUP	Chloroform	0.17		0%
11/5/2023	ROUX07	cis-1,2-Dichloroethene	0.05	U	ROUX07 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/5/2023	ROUX07	Tetrachloroethene	0.049	J	ROUX07 DUP	Tetrachloroethene	0.049	J	0%
11/5/2023	ROUX07	trans-1,2-Dichloroethene	0.05	U	ROUX07 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/5/2023	ROUX07	trans-1,3-Dichloropropene	0.05	U	ROUX07 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/5/2023	ROUX07	Trichloroethene	0.1	U	ROUX07 DUP	Trichloroethene	0.1	U	0%
11/5/2023	ROUX07	Trichlorofluoromethane	1.4		ROUX07 DUP	Trichlorofluoromethane	1.4		0%
11/5/2023	ROUX07	Vinyl chloride	0.02	U	ROUX07 DUP	Vinyl chloride	0.02	U	0%
11/7/2023	ROUX04	1,1,1-Trichloroethane	0.1	U	ROUX04 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/7/2023	ROUX04	1,1,2-Trichloroethane	0.1	U	ROUX04 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/7/2023	ROUX04	1,1-Dichloroethane	0.05	U	ROUX04 DUP	1,1-Dichloroethane	0.05	U	0%
11/7/2023	ROUX04	1,1-Dichloroethene	0.05	U	ROUX04 DUP	1,1-Dichloroethene	0.05	U	0%
11/7/2023	ROUX04	1,2-Dibromoethane	0.2	U	ROUX04 DUP	1,2-Dibromoethane	0.2	U	0%
11/7/2023	ROUX04	1,2-Dichlorobenzene	0.2	U	ROUX04 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/3/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/3/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/3/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
11/3/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
11/3/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
11/3/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/3/2023	ROUXB02	1,2-Dichloroethane	0.089	J	ROUXB02 DUP	1,2-Dichloroethane	0.089	J	0%
11/3/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/3/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
11/3/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
11/3/2023	ROUXB02	Chloroform	0.22		ROUXB02 DUP	Chloroform	0.22		0%
11/3/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/3/2023	ROUXB02	Dichlorodifluoromethane	2.5		ROUXB02 DUP	Dichlorodifluoromethane	2.5		0%
11/3/2023	ROUXB02	Ethylbenzene	0.18		ROUXB02 DUP	Ethylbenzene	0.18		0%
11/3/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/3/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/3/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
11/3/2023	ROUXB02	Trichlorofluoromethane	1.4		ROUXB02 DUP	Trichlorofluoromethane	1.4		0%
11/3/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
11/7/2023	ROUX04	1,3-Dichlorobenzene	0.2	U	ROUX04 DUP	1,3-Dichlorobenzene	0.2	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/7/2023	ROUX04	Benzyl chloride	0.5	U	ROUX04 DUP	Benzyl chloride	0.5	U	0%
11/7/2023	ROUX04	Chlorobenzene	0.1	U	ROUX04 DUP	Chlorobenzene	0.1	U	0%
11/7/2023	ROUX04	cis-1,2-Dichloroethene	0.05	U	ROUX04 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/7/2023	ROUX04	Dichlorodifluoromethane	2.6		ROUX04 DUP	Dichlorodifluoromethane	2.6		0%
11/7/2023	ROUX04	Tetrachloroethene	0.1	U	ROUX04 DUP	Tetrachloroethene	0.1	U	0%
11/7/2023	ROUX04	trans-1,2-Dichloroethene	0.05	U	ROUX04 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/7/2023	ROUX04	trans-1,3-Dichloropropene	0.05	U	ROUX04 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/7/2023	ROUX04	Trichloroethene	0.1	U	ROUX04 DUP	Trichloroethene	0.1	U	0%
11/7/2023	ROUX04	Vinyl chloride	0.02	U	ROUX04 DUP	Vinyl chloride	0.02	U	0%
11/9/2023	ROUX06	1,1,1-Trichloroethane	0.1	U	ROUX06 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/9/2023	ROUX06	1,1,2-Trichloroethane	0.1	U	ROUX06 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/9/2023	ROUX06	1,1-Dichloroethane	0.05	U	ROUX06 DUP	1,1-Dichloroethane	0.05	U	0%
11/9/2023	ROUX06	1,1-Dichloroethene	0.05	U	ROUX06 DUP	1,1-Dichloroethene	0.05	U	0%
11/9/2023	ROUX06	1,2-Dibromoethane	0.2	U	ROUX06 DUP	1,2-Dibromoethane	0.2	U	0%
11/9/2023	ROUX06	1,2-Dichlorobenzene	0.2	U	ROUX06 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/9/2023	ROUX06	1,2-Dichloroethane	0.1		ROUX06 DUP	1,2-Dichloroethane	0.1		0%
11/9/2023	ROUX06	1,3-Dichlorobenzene	0.2	U	ROUX06 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/9/2023	ROUX06	1,4-Dichlorobenzene	0.2	U	ROUX06 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/9/2023	ROUX06	Benzene	0.3		ROUX06 DUP	Benzene	0.3		0%
11/9/2023	ROUX06	Benzyl chloride	0.5	U	ROUX06 DUP	Benzyl chloride	0.5	U	0%
11/9/2023	ROUX06	Chlorobenzene	0.1	U	ROUX06 DUP	Chlorobenzene	0.1	U	0%
11/9/2023	ROUX06	cis-1,2-Dichloroethene	0.05	U	ROUX06 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/9/2023	ROUX06	Dichlorodifluoromethane	2.7		ROUX06 DUP	Dichlorodifluoromethane	2.7		0%
11/9/2023	ROUX06	Tetrachloroethene	0.1	U	ROUX06 DUP	Tetrachloroethene	0.1	U	0%
11/9/2023	ROUX06	Toluene	0.64		ROUX06 DUP	Toluene	0.64		0%
11/9/2023	ROUX06	trans-1,2-Dichloroethene	0.05	U	ROUX06 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/9/2023	ROUX06	trans-1,3-Dichloropropene	0.05	U	ROUX06 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/9/2023	ROUX06	Trichloroethene	0.1	U	ROUX06 DUP	Trichloroethene	0.1	U	0%
11/9/2023	ROUX06	Trichlorofluoromethane	1.5		ROUX06 DUP	Trichlorofluoromethane	1.5		0%
11/5/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/5/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/5/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
11/5/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
11/5/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
11/5/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/5/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/5/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
11/5/2023	ROUXB02	Carbon tetrachloride	0.59		ROUXB02 DUP	Carbon tetrachloride	0.59		0%
11/5/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
11/5/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/5/2023	ROUXB02	Dichlorodifluoromethane	2.5		ROUXB02 DUP	Dichlorodifluoromethane	2.5		0%
11/5/2023	ROUXB02	Toluene	1.1		ROUXB02 DUP	Toluene	1.1		0%
11/5/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/5/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/5/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
11/5/2023	ROUXB02	Trichlorofluoromethane	1.4		ROUXB02 DUP	Trichlorofluoromethane	1.4		0%
11/5/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
11/9/2023	ROUX06	Vinyl chloride	0.02	U	ROUX06 DUP	Vinyl chloride	0.02	U	0%
11/10/2023	ROUX05	1,1,1-Trichloroethane	0.1	U	ROUX05 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/10/2023	ROUX05	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		ROUX05 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/10/2023	ROUX05	1,1,2-Trichloroethane	0.1	U	ROUX05 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/10/2023	ROUX05	1,1-Dichloroethane	0.05	U	ROUX05 DUP	1,1-Dichloroethane	0.05	U	0%
11/10/2023	ROUX05	1,1-Dichloroethene	0.05	U	ROUX05 DUP	1,1-Dichloroethene	0.05	U	0%
11/10/2023	ROUX05	1,2-Dibromoethane	0.2	U	ROUX05 DUP	1,2-Dibromoethane	0.2	U	0%
11/10/2023	ROUX05	1,2-Dichlorobenzene	0.2	U	ROUX05 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/10/2023	ROUX05	1,3-Dichlorobenzene	0.2	U	ROUX05 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/10/2023	ROUX05	Benzyl chloride	0.5	U	ROUX05 DUP	Benzyl chloride	0.5	U	0%
11/10/2023	ROUX05	Carbon tetrachloride	0.52		ROUX05 DUP	Carbon tetrachloride	0.52		0%
11/10/2023	ROUX05	Chlorobenzene	0.1	U	ROUX05 DUP	Chlorobenzene	0.1	U	0%
11/10/2023	ROUX05	Chloroform	0.18		ROUX05 DUP	Chloroform	0.18		0%
11/10/2023	ROUX05	cis-1,2-Dichloroethene	0.05	U	ROUX05 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/10/2023	ROUX05	Toluene	1.3		ROUX05 DUP	Toluene	1.3		0%
11/10/2023	ROUX05	Total Xylenes	1.4		ROUX05 DUP	Total Xylenes	1.4		0%
11/10/2023	ROUX05	trans-1,2-Dichloroethene	0.05	U	ROUX05 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/10/2023	ROUX05	trans-1,3-Dichloropropene	0.05	U	ROUX05 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/10/2023	ROUX05	Trichloroethene	0.1	U	ROUX05 DUP	Trichloroethene	0.1	U	0%
11/10/2023	ROUX05	Trichlorofluoromethane	1.3		ROUX05 DUP	Trichlorofluoromethane	1.3		0%
11/10/2023	ROUX05	Vinyl chloride	0.02	U	ROUX05 DUP	Vinyl chloride	0.02	U	0%
11/12/2023	ROUX02	1,1,1-Trichloroethane	0.05	U	ROUX02 DUP	1,1,1-Trichloroethane	0.05	U	0%
11/12/2023	ROUX02	1,1,2-Trichloroethane	0.05	U	ROUX02 DUP	1,1,2-Trichloroethane	0.05	U	0%
11/12/2023	ROUX02	1,1-Dichloroethane	0.025	U	ROUX02 DUP	1,1-Dichloroethane	0.025	U	0%
11/12/2023	ROUX02	1,1-Dichloroethene	0.025	U	ROUX02 DUP	1,1-Dichloroethene	0.025	U	0%
11/12/2023	ROUX02	1,1-Difluoroethane	0.45	J	ROUX02 DUP	1,1-Difluoroethane	0.45	J	0%
11/12/2023	ROUX02	1,2-Dibromoethane	0.1	U	ROUX02 DUP	1,2-Dibromoethane	0.1	U	0%
11/12/2023	ROUX02	1,2-Dichlorobenzene	0.1	U	ROUX02 DUP	1,2-Dichlorobenzene	0.1	U	0%
11/12/2023	ROUX02	1,2-Dichloroethane	0.05	U	ROUX02 DUP	1,2-Dichloroethane	0.05	U	0%
11/7/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/7/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/7/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
11/7/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
11/7/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
11/7/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/7/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/7/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
11/7/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
11/7/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/7/2023	ROUXB01	Tetrachloroethene	0.1	U	ROUXB01 DUP	Tetrachloroethene	0.1	U	0%
11/7/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/7/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/7/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
11/7/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
11/12/2023	ROUX02	1,3-Dichlorobenzene	0.1	U	ROUX02 DUP	1,3-Dichlorobenzene	0.1	U	0%
11/12/2023	ROUX02	1,4-Dichlorobenzene	0.1	U	ROUX02 DUP	1,4-Dichlorobenzene	0.1	U	0%
11/12/2023	ROUX02	Benzyl chloride	0.25	U	ROUX02 DUP	Benzyl chloride	0.25	U	0%
11/12/2023	ROUX02	Carbon tetrachloride	0.1	U	ROUX02 DUP	Carbon tetrachloride	0.1	U	0%
11/12/2023	ROUX02	Chlorobenzene	0.05	U	ROUX02 DUP	Chlorobenzene	0.05	U	0%
11/12/2023	ROUX02	Chloroform	0.025	U	ROUX02 DUP	Chloroform	0.025	U	0%
11/12/2023	ROUX02	cis-1,2-Dichloroethene	0.025	U	ROUX02 DUP	cis-1,2-Dichloroethene	0.025	U	0%
11/12/2023	ROUX02	Ethylbenzene	0.28		ROUX02 DUP	Ethylbenzene	0.28		0%
11/12/2023	ROUX02	o-Xylene	0.37		ROUX02 DUP	o-Xylene	0.37		0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/12/2023	ROUX02	p- & m-Xylenes	1		ROUX02 DUP	p- & m-Xylenes	1		0%
11/12/2023	ROUX02	Tetrachloroethene	0.05	U	ROUX02 DUP	Tetrachloroethene	0.05	U	0%
11/12/2023	ROUX02	Total Xylenes	1.4		ROUX02 DUP	Total Xylenes	1.4		0%
11/12/2023	ROUX02	trans-1,2-Dichloroethene	0.025	U	ROUX02 DUP	trans-1,2-Dichloroethene	0.025	U	0%
11/12/2023	ROUX02	trans-1,3-Dichloropropene	0.025	U	ROUX02 DUP	trans-1,3-Dichloropropene	0.025	U	0%
11/12/2023	ROUX02	Trichloroethene	0.05	U	ROUX02 DUP	Trichloroethene	0.05	U	0%
11/12/2023	ROUX02	Trichlorofluoromethane	1.3		ROUX02 DUP	Trichlorofluoromethane	1.3		0%
11/12/2023	ROUX02	Vinyl chloride	0.01	U	ROUX02 DUP	Vinyl chloride	0.01	U	0%
11/14/2023	ROUX01	1,1,1-Trichloroethane	0.1	U	ROUX01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/14/2023	ROUX01	1,1,2-Trichloroethane	0.1	U	ROUX01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/14/2023	ROUX01	1,1-Dichloroethane	0.05	U	ROUX01 DUP	1,1-Dichloroethane	0.05	U	0%
11/14/2023	ROUX01	1,1-Dichloroethene	0.05	U	ROUX01 DUP	1,1-Dichloroethene	0.05	U	0%
11/14/2023	ROUX01	1,1-Difluoroethane	0.48	J	ROUX01 DUP	1,1-Difluoroethane	0.48	J	0%
11/14/2023	ROUX01	1,2-Dibromoethane	0.2	U	ROUX01 DUP	1,2-Dibromoethane	0.2	U	0%
11/14/2023	ROUX01	1,2-Dichlorobenzene	0.2	U	ROUX01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/14/2023	ROUX01	1,2-Dichloroethane	0.16		ROUX01 DUP	1,2-Dichloroethane	0.16		0%
11/14/2023	ROUX01	1,3-Dichlorobenzene	0.2	U	ROUX01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/14/2023	ROUX01	Benzene	1.8		ROUX01 DUP	Benzene	1.8		0%
11/14/2023	ROUX01	Benzyl chloride	0.5	U	ROUX01 DUP	Benzyl chloride	0.5	U	0%
11/9/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/9/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.6		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.6		0%
11/9/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/9/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
11/9/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
11/9/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
11/9/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/9/2023	ROUXB02	1,2-Dichloroethane	0.11		ROUXB02 DUP	1,2-Dichloroethane	0.11		0%
11/9/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/9/2023	ROUXB02	1,4-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/9/2023	ROUXB02	Benzene	0.3		ROUXB02 DUP	Benzene	0.3		0%
11/9/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
11/9/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
11/9/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/9/2023	ROUXB02	Dichlorodifluoromethane	2.7		ROUXB02 DUP	Dichlorodifluoromethane	2.7		0%
11/9/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/9/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/9/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
11/9/2023	ROUXB02	Trichlorofluoromethane	1.5		ROUXB02 DUP	Trichlorofluoromethane	1.5		0%
11/9/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
11/14/2023	ROUX01	Carbon tetrachloride	0.55		ROUX01 DUP	Carbon tetrachloride	0.55		0%
11/14/2023	ROUX01	Chlorobenzene	0.1	U	ROUX01 DUP	Chlorobenzene	0.1	U	0%
11/14/2023	ROUX01	Chloroform	0.13		ROUX01 DUP	Chloroform	0.13		0%
11/14/2023	ROUX01	cis-1,2-Dichloroethene	0.05	U	ROUX01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/14/2023	ROUX01	o-Xylene	0.18		ROUX01 DUP	o-Xylene	0.18		0%
11/14/2023	ROUX01	trans-1,2-Dichloroethene	0.05	U	ROUX01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/14/2023	ROUX01	trans-1,3-Dichloropropene	0.05	U	ROUX01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/14/2023	ROUX01	Trichloroethene	0.1	U	ROUX01 DUP	Trichloroethene	0.1	U	0%
11/14/2023	ROUX01	Trichlorofluoromethane	1.4		ROUX01 DUP	Trichlorofluoromethane	1.4		0%
11/14/2023	ROUX01	Vinyl chloride	0.02	U	ROUX01 DUP	Vinyl chloride	0.02	U	0%
11/16/2023	ROUX02	1,1,1-Trichloroethane	0.05	U	ROUX02 DUP	1,1,1-Trichloroethane	0.05	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/16/2023	ROUX02	1,1,2-Trichloroethane	0.05	U	ROUX02 DUP	1,1,2-Trichloroethane	0.05	U	0%
11/16/2023	ROUX02	1,1-Dichloroethane	0.025	U	ROUX02 DUP	1,1-Dichloroethane	0.025	U	0%
11/16/2023	ROUX02	1,1-Dichloroethene	0.025	U	ROUX02 DUP	1,1-Dichloroethene	0.025	U	0%
11/16/2023	ROUX02	1,2-Dibromoethane	0.1	U	ROUX02 DUP	1,2-Dibromoethane	0.1	U	0%
11/16/2023	ROUX02	1,2-Dichlorobenzene	0.1	U	ROUX02 DUP	1,2-Dichlorobenzene	0.1	U	0%
11/16/2023	ROUX02	1,2-Dichloroethane	0.05	U	ROUX02 DUP	1,2-Dichloroethane	0.05	U	0%
11/16/2023	ROUX02	1,3-Dichlorobenzene	0.1	U	ROUX02 DUP	1,3-Dichlorobenzene	0.1	U	0%
11/16/2023	ROUX02	1,4-Dichlorobenzene	0.1	U	ROUX02 DUP	1,4-Dichlorobenzene	0.1	U	0%
11/16/2023	ROUX02	Benzyl chloride	0.25	U	ROUX02 DUP	Benzyl chloride	0.25	U	0%
11/16/2023	ROUX02	Carbon tetrachloride	0.1	U	ROUX02 DUP	Carbon tetrachloride	0.1	U	0%
11/16/2023	ROUX02	Chlorobenzene	0.05	U	ROUX02 DUP	Chlorobenzene	0.05	U	0%
11/16/2023	ROUX02	Chloroform	0.025	U	ROUX02 DUP	Chloroform	0.025	U	0%
11/16/2023	ROUX02	cis-1,2-Dichloroethene	0.025	U	ROUX02 DUP	cis-1,2-Dichloroethene	0.025	U	0%
11/16/2023	ROUX02	Tetrachloroethene	0.05	U	ROUX02 DUP	Tetrachloroethene	0.05	U	0%
11/16/2023	ROUX02	trans-1,2-Dichloroethene	0.025	U	ROUX02 DUP	trans-1,2-Dichloroethene	0.025	U	0%
11/16/2023	ROUX02	trans-1,3-Dichloropropene	0.025	U	ROUX02 DUP	trans-1,3-Dichloropropene	0.025	U	0%
11/16/2023	ROUX02	Trichloroethene	0.05	U	ROUX02 DUP	Trichloroethene	0.05	U	0%
11/16/2023	ROUX02	Vinyl chloride	0.01	U	ROUX02 DUP	Vinyl chloride	0.01	U	0%
11/19/2023	ROUX07	1,1,1-Trichloroethane	0.1	U	ROUX07 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/10/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/10/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/10/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
11/10/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
11/10/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
11/10/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/10/2023	ROUXB01	1,2-Dichloroethane	0.13		ROUXB01 DUP	1,2-Dichloroethane	0.13		0%
11/10/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/10/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/10/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
11/10/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
11/10/2023	ROUXB01	Chloroform	0.13		ROUXB01 DUP	Chloroform	0.13		0%
11/10/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/10/2023	ROUXB01	o-Xylene	0.11		ROUXB01 DUP	o-Xylene	0.11		0%
11/10/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/10/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/10/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
11/10/2023	ROUXB01	Trichlorofluoromethane	1.3		ROUXB01 DUP	Trichlorofluoromethane	1.3		0%
11/10/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
11/19/2023	ROUX07	1,1,2-Trichloroethane	0.1	U	ROUX07 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/19/2023	ROUX07	1,1-Dichloroethane	0.05	U	ROUX07 DUP	1,1-Dichloroethane	0.05	U	0%
11/19/2023	ROUX07	1,1-Dichloroethene	0.05	U	ROUX07 DUP	1,1-Dichloroethene	0.05	U	0%
11/19/2023	ROUX07	1,2-Dibromoethane	0.2	U	ROUX07 DUP	1,2-Dibromoethane	0.2	U	0%
11/19/2023	ROUX07	1,2-Dichlorobenzene	0.2	U	ROUX07 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/19/2023	ROUX07	1,3-Dichlorobenzene	0.2	U	ROUX07 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/19/2023	ROUX07	1,4-Dichlorobenzene	0.2	U	ROUX07 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/19/2023	ROUX07	Benzyl chloride	0.5	U	ROUX07 DUP	Benzyl chloride	0.5	U	0%
11/19/2023	ROUX07	Chlorobenzene	0.1	U	ROUX07 DUP	Chlorobenzene	0.1	U	0%
11/19/2023	ROUX07	cis-1,2-Dichloroethene	0.05	U	ROUX07 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/19/2023	ROUX07	Dichlorodifluoromethane	2.1		ROUX07 DUP	Dichlorodifluoromethane	2.1		0%
11/19/2023	ROUX07	trans-1,2-Dichloroethene	0.05	U	ROUX07 DUP	trans-1,2-Dichloroethene	0.05	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/19/2023	ROUX07	trans-1,3-Dichloropropene	0.05	U	ROUX07 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/19/2023	ROUX07	Trichloroethene	0.1	U	ROUX07 DUP	Trichloroethene	0.1	U	0%
11/19/2023	ROUX07	Trichlorofluoromethane	1.1		ROUX07 DUP	Trichlorofluoromethane	1.1		0%
11/19/2023	ROUX07	Vinyl chloride	0.02	U	ROUX07 DUP	Vinyl chloride	0.02	U	0%
11/21/2023	ROUX05	1,1,1-Trichloroethane	0.1	U	ROUX05 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/21/2023	ROUX05	1,1,2-Trichloroethane	0.1	U	ROUX05 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/21/2023	ROUX05	1,1-Dichloroethane	0.05	U	ROUX05 DUP	1,1-Dichloroethane	0.05	U	0%
11/21/2023	ROUX05	1,1-Dichloroethene	0.05	U	ROUX05 DUP	1,1-Dichloroethene	0.05	U	0%
11/21/2023	ROUX05	1,2-Dibromoethane	0.2	U	ROUX05 DUP	1,2-Dibromoethane	0.2	U	0%
11/21/2023	ROUX05	1,2-Dichlorobenzene	0.2	U	ROUX05 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/21/2023	ROUX05	1,3-Dichlorobenzene	0.2	U	ROUX05 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/21/2023	ROUX05	1,4-Dichlorobenzene	0.2	U	ROUX05 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/21/2023	ROUX05	Benzyl chloride	0.5	U,L07	ROUX05 DUP	Benzyl chloride	0.5	U,L07	0%
11/21/2023	ROUX05	Chlorobenzene	0.1	U	ROUX05 DUP	Chlorobenzene	0.1	U	0%
11/21/2023	ROUX05	cis-1,2-Dichloroethene	0.05	U	ROUX05 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/21/2023	ROUX05	Tetrachloroethene	0.1	U	ROUX05 DUP	Tetrachloroethene	0.1	U	0%
11/21/2023	ROUX05	trans-1,2-Dichloroethene	0.05	U	ROUX05 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/21/2023	ROUX05	trans-1,3-Dichloropropene	0.05	U	ROUX05 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/12/2023	ROUXB02	1,1,1-Trichloroethane	0.05	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.05	U	0%
11/12/2023	ROUXB02	1,1,2-Trichloroethane	0.05	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.05	U	0%
11/12/2023	ROUXB02	1,1-Dichloroethane	0.025	U	ROUXB02 DUP	1,1-Dichloroethane	0.025	U	0%
11/12/2023	ROUXB02	1,1-Dichloroethene	0.025	U	ROUXB02 DUP	1,1-Dichloroethene	0.025	U	0%
11/12/2023	ROUXB02	1,2-Dibromoethane	0.1	U	ROUXB02 DUP	1,2-Dibromoethane	0.1	U	0%
11/12/2023	ROUXB02	1,2-Dichlorobenzene	0.1	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.1	U	0%
11/12/2023	ROUXB02	1,2-Dichloroethane	0.05	U	ROUXB02 DUP	1,2-Dichloroethane	0.05	U	0%
11/12/2023	ROUXB02	1,3-Dichlorobenzene	0.1	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.1	U	0%
11/12/2023	ROUXB02	1,4-Dichlorobenzene	0.1	U	ROUXB02 DUP	1,4-Dichlorobenzene	0.1	U	0%
11/12/2023	ROUXB02	Benzyl chloride	0.25	U	ROUXB02 DUP	Benzyl chloride	0.25	U	0%
11/12/2023	ROUXB02	Carbon tetrachloride	0.1	U	ROUXB02 DUP	Carbon tetrachloride	0.1	U	0%
11/12/2023	ROUXB02	Chlorobenzene	0.05	U	ROUXB02 DUP	Chlorobenzene	0.05	U	0%
11/12/2023	ROUXB02	Chloroform	0.025	U	ROUXB02 DUP	Chloroform	0.025	U	0%
11/12/2023	ROUXB02	cis-1,2-Dichloroethene	0.025	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.025	U	0%
11/12/2023	ROUXB02	Dichlorodifluoromethane	2.5		ROUXB02 DUP	Dichlorodifluoromethane	2.5		0%
11/12/2023	ROUXB02	Tetrachloroethene	0.05	U	ROUXB02 DUP	Tetrachloroethene	0.05	U	0%
11/12/2023	ROUXB02	trans-1,2-Dichloroethene	0.025	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.025	U	0%
11/12/2023	ROUXB02	trans-1,3-Dichloropropene	0.025	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.025	U	0%
11/12/2023	ROUXB02	Trichloroethene	0.05	U	ROUXB02 DUP	Trichloroethene	0.05	U	0%
11/12/2023	ROUXB02	Trichlorofluoromethane	1.3		ROUXB02 DUP	Trichlorofluoromethane	1.3		0%
11/12/2023	ROUXB02	Vinyl chloride	0.01	U	ROUXB02 DUP	Vinyl chloride	0.01	U	0%
11/21/2023	ROUX05	Trichloroethene	0.1	U	ROUX05 DUP	Trichloroethene	0.1	U	0%
11/21/2023	ROUX05	Vinyl chloride	0.02	U	ROUX05 DUP	Vinyl chloride	0.02	U	0%
11/28/2023	ROUX06	1,1,1-Trichloroethane	0.1	U	ROUX06 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/28/2023	ROUX06	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46		ROUX06 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46		0%
11/28/2023	ROUX06	1,1,2-Trichloroethane	0.1	U	ROUX06 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/28/2023	ROUX06	1,1-Dichloroethane	0.05	U	ROUX06 DUP	1,1-Dichloroethane	0.05	U	0%
11/28/2023	ROUX06	1,1-Dichloroethene	0.05	U	ROUX06 DUP	1,1-Dichloroethene	0.05	U	0%
11/28/2023	ROUX06	1,1-Difluoroethane	0.31	J	ROUX06 DUP	1,1-Difluoroethane	0.31	J	0%
11/28/2023	ROUX06	1,2-Dibromoethane	0.2	U	ROUX06 DUP	1,2-Dibromoethane	0.2	U	0%
11/28/2023	ROUX06	1,2-Dichlorobenzene	0.2	U	ROUX06 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/28/2023	ROUX06	1,3-Dichlorobenzene	0.2	U	ROUX06 DUP	1,3-Dichlorobenzene	0.2	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/28/2023	ROUX06	1,4-Dichlorobenzene	0.2	U	ROUX06 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/28/2023	ROUX06	Benzyl chloride	0.5	U	ROUX06 DUP	Benzyl chloride	0.5	U	0%
11/28/2023	ROUX06	Carbon tetrachloride	0.42		ROUX06 DUP	Carbon tetrachloride	0.42		0%
11/28/2023	ROUX06	Chlorobenzene	0.1	U	ROUX06 DUP	Chlorobenzene	0.1	U	0%
11/28/2023	ROUX06	Chloroform	0.11		ROUX06 DUP	Chloroform	0.11		0%
11/28/2023	ROUX06	cis-1,2-Dichloroethene	0.05	U	ROUX06 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/28/2023	ROUX06	Dichlorodifluoromethane	2		ROUX06 DUP	Dichlorodifluoromethane	2		0%
11/28/2023	ROUX06	Tetrachloroethene	0.036	J	ROUX06 DUP	Tetrachloroethene	0.036	J	0%
11/28/2023	ROUX06	trans-1,2-Dichloroethene	0.05	U	ROUX06 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/28/2023	ROUX06	trans-1,3-Dichloropropene	0.05	U	ROUX06 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/28/2023	ROUX06	Trichloroethene	0.1	U	ROUX06 DUP	Trichloroethene	0.1	U	0%
11/28/2023	ROUX06	Trichlorofluoromethane	1		ROUX06 DUP	Trichlorofluoromethane	1		0%
11/28/2023	ROUX06	Vinyl chloride	0.02	U	ROUX06 DUP	Vinyl chloride	0.02	U	0%
11/30/2023	ROUX03	1,1,1-Trichloroethane	0.1	U	ROUX03 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/30/2023	ROUX03	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		ROUX03 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		0%
11/30/2023	ROUX03	1,1,2-Trichloroethane	0.1	U	ROUX03 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/30/2023	ROUX03	1,1-Dichloroethane	0.05	U	ROUX03 DUP	1,1-Dichloroethane	0.05	U	0%
11/30/2023	ROUX03	1,1-Dichloroethene	0.05	U	ROUX03 DUP	1,1-Dichloroethene	0.05	U	0%
11/30/2023	ROUX03	1,2-Dibromoethane	0.2	U	ROUX03 DUP	1,2-Dibromoethane	0.2	U	0%
11/14/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/14/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		0%
11/14/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/14/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
11/14/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
11/14/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
11/14/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/14/2023	ROUXB02	1,2-Dichloroethane	0.16		ROUXB02 DUP	1,2-Dichloroethane	0.16		0%
11/14/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/14/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
11/14/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
11/14/2023	ROUXB02	Chloroform	0.24		ROUXB02 DUP	Chloroform	0.24		0%
11/14/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/14/2023	ROUXB02	Ethylbenzene	0.26		ROUXB02 DUP	Ethylbenzene	0.26		0%
11/14/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/14/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/14/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
11/14/2023	ROUXB02	Trichlorofluoromethane	1.4		ROUXB02 DUP	Trichlorofluoromethane	1.4		0%
11/14/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
11/30/2023	ROUX03	1,2-Dichlorobenzene	0.2	U	ROUX03 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/30/2023	ROUX03	1,2-Dichloroethane	0.087	J	ROUX03 DUP	1,2-Dichloroethane	0.087	J	0%
11/30/2023	ROUX03	1,3-Dichlorobenzene	0.2	U	ROUX03 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/30/2023	ROUX03	1,4-Dichlorobenzene	0.2	U	ROUX03 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/30/2023	ROUX03	Benzyl chloride	0.5	U	ROUX03 DUP	Benzyl chloride	0.5	U	0%
11/30/2023	ROUX03	Carbon tetrachloride	0.48		ROUX03 DUP	Carbon tetrachloride	0.48		0%
11/30/2023	ROUX03	Chlorobenzene	0.1	U	ROUX03 DUP	Chlorobenzene	0.1	U	0%
11/30/2023	ROUX03	cis-1,2-Dichloroethene	0.05	U	ROUX03 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/30/2023	ROUX03	Ethylbenzene	0.2		ROUX03 DUP	Ethylbenzene	0.2		0%
11/30/2023	ROUX03	o-Xylene	0.22		ROUX03 DUP	o-Xylene	0.22		0%
11/30/2023	ROUX03	trans-1,2-Dichloroethene	0.05	U	ROUX03 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/30/2023	ROUX03	trans-1,3-Dichloropropene	0.05	U	ROUX03 DUP	trans-1,3-Dichloropropene	0.05	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/30/2023	ROUX03	Trichloroethene	0.1	U	ROUX03 DUP	Trichloroethene	0.1	U	0%
11/30/2023	ROUX03	Trichlorofluoromethane	1.2		ROUX03 DUP	Trichlorofluoromethane	1.2		0%
11/30/2023	ROUX03	Vinyl chloride	0.02	U	ROUX03 DUP	Vinyl chloride	0.02	U	0%
12/1/2023	ROUX04	1,1,1-Trichloroethane	0.1	U	ROUX04 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/1/2023	ROUX04	1,1,2-Trichloroethane	0.1	U	ROUX04 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/1/2023	ROUX04	1,1-Dichloroethane	0.05	U	ROUX04 DUP	1,1-Dichloroethane	0.05	U	0%
12/1/2023	ROUX04	1,1-Dichloroethene	0.05	U	ROUX04 DUP	1,1-Dichloroethene	0.05	U	0%
12/1/2023	ROUX04	1,2-Dibromoethane	0.2	U	ROUX04 DUP	1,2-Dibromoethane	0.2	U	0%
12/1/2023	ROUX04	1,2-Dichlorobenzene	0.2	U	ROUX04 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/1/2023	ROUX04	1,2-Dichloroethane	0.11		ROUX04 DUP	1,2-Dichloroethane	0.11		0%
12/1/2023	ROUX04	1,3-Dichlorobenzene	0.2	U	ROUX04 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/1/2023	ROUX04	1,4-Dichlorobenzene	0.2	U	ROUX04 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/1/2023	ROUX04	Benzyl chloride	0.5	U	ROUX04 DUP	Benzyl chloride	0.5	U	0%
12/1/2023	ROUX04	Chlorobenzene	0.1	U	ROUX04 DUP	Chlorobenzene	0.1	U	0%
12/1/2023	ROUX04	cis-1,2-Dichloroethene	0.05	U	ROUX04 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/1/2023	ROUX04	Dichlorodifluoromethane	2.3		ROUX04 DUP	Dichlorodifluoromethane	2.3		0%
11/16/2023	ROUXB01	1,1,1-Trichloroethane	0.05	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.05	U	0%
11/16/2023	ROUXB01	1,1,2-Trichloroethane	0.05	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.05	U	0%
11/16/2023	ROUXB01	1,1-Dichloroethane	0.025	U	ROUXB01 DUP	1,1-Dichloroethane	0.025	U	0%
11/16/2023	ROUXB01	1,1-Dichloroethene	0.025	U	ROUXB01 DUP	1,1-Dichloroethene	0.025	U	0%
11/16/2023	ROUXB01	1,2-Dibromoethane	0.1	U	ROUXB01 DUP	1,2-Dibromoethane	0.1	U	0%
11/16/2023	ROUXB01	1,2-Dichlorobenzene	0.1	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.1	U	0%
11/16/2023	ROUXB01	1,2-Dichloroethane	0.05	U	ROUXB01 DUP	1,2-Dichloroethane	0.05	U	0%
11/16/2023	ROUXB01	1,3-Dichlorobenzene	0.1	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.1	U	0%
11/16/2023	ROUXB01	1,4-Dichlorobenzene	0.1	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.1	U	0%
11/16/2023	ROUXB01	Benzyl chloride	0.25	U	ROUXB01 DUP	Benzyl chloride	0.25	U	0%
11/16/2023	ROUXB01	Carbon tetrachloride	0.1	U	ROUXB01 DUP	Carbon tetrachloride	0.1	U	0%
11/16/2023	ROUXB01	Chlorobenzene	0.05	U	ROUXB01 DUP	Chlorobenzene	0.05	U	0%
11/16/2023	ROUXB01	Chloroform	0.025	U	ROUXB01 DUP	Chloroform	0.025	U	0%
11/16/2023	ROUXB01	cis-1,2-Dichloroethene	0.025	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.025	U	0%
11/16/2023	ROUXB01	Tetrachloroethene	0.05	U	ROUXB01 DUP	Tetrachloroethene	0.05	U	0%
11/16/2023	ROUXB01	trans-1,2-Dichloroethene	0.025	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.025	U	0%
11/16/2023	ROUXB01	trans-1,3-Dichloropropene	0.025	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.025	U	0%
11/16/2023	ROUXB01	Trichloroethene	0.05	U	ROUXB01 DUP	Trichloroethene	0.05	U	0%
11/16/2023	ROUXB01	Trichlorofluoromethane	1.4		ROUXB01 DUP	Trichlorofluoromethane	1.4		0%
11/16/2023	ROUXB01	Vinyl chloride	0.01	U	ROUXB01 DUP	Vinyl chloride	0.01	U	0%
12/1/2023	ROUX04	trans-1,2-Dichloroethene	0.05	U	ROUX04 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/1/2023	ROUX04	trans-1,3-Dichloropropene	0.05	U	ROUX04 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/1/2023	ROUX04	Trichloroethene	0.1	U	ROUX04 DUP	Trichloroethene	0.1	U	0%
12/1/2023	ROUX04	Trichlorofluoromethane	1.2		ROUX04 DUP	Trichlorofluoromethane	1.2		0%
12/1/2023	ROUX04	Vinyl chloride	0.02	U	ROUX04 DUP	Vinyl chloride	0.02	U	0%
12/3/2023	ROUX06	1,1,1-Trichloroethane	0.1	U	ROUX06 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/3/2023	ROUX06	1,1,2-Trichloro-1,2,2-trifluoroethane	0.49		ROUX06 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.49		0%
12/3/2023	ROUX06	1,1,2-Trichloroethane	0.1	U	ROUX06 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/3/2023	ROUX06	1,1-Dichloroethane	0.05	U	ROUX06 DUP	1,1-Dichloroethane	0.05	U	0%
12/3/2023	ROUX06	1,1-Dichloroethene	0.05	U	ROUX06 DUP	1,1-Dichloroethene	0.05	U	0%
12/3/2023	ROUX06	1,2-Dibromoethane	0.2	U	ROUX06 DUP	1,2-Dibromoethane	0.2	U	0%
12/3/2023	ROUX06	1,2-Dichlorobenzene	0.2	U	ROUX06 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/3/2023	ROUX06	1,2-Dichloroethane	0.1		ROUX06 DUP	1,2-Dichloroethane	0.1		0%
12/3/2023	ROUX06	1,3-Dichlorobenzene	0.2	U	ROUX06 DUP	1,3-Dichlorobenzene	0.2	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/3/2023	ROUX06	1,4-Dichlorobenzene	0.2	U	ROUX06 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/3/2023	ROUX06	Benzyl chloride	0.5	U	ROUX06 DUP	Benzyl chloride	0.5	U	0%
12/3/2023	ROUX06	Chlorobenzene	0.1	U	ROUX06 DUP	Chlorobenzene	0.1	U	0%
12/3/2023	ROUX06	Chloroform	0.16		ROUX06 DUP	Chloroform	0.16		0%
12/3/2023	ROUX06	cis-1,2-Dichloroethene	0.05	U	ROUX06 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/3/2023	ROUX06	Dichlorodifluoromethane	2.2		ROUX06 DUP	Dichlorodifluoromethane	2.2		0%
12/3/2023	ROUX06	Toluene	1.2		ROUX06 DUP	Toluene	1.2		0%
12/3/2023	ROUX06	trans-1,2-Dichloroethene	0.05	U	ROUX06 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/3/2023	ROUX06	trans-1,3-Dichloropropene	0.05	U	ROUX06 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/3/2023	ROUX06	Trichloroethene	0.1	U	ROUX06 DUP	Trichloroethene	0.1	U	0%
12/3/2023	ROUX06	Trichlorofluoromethane	1.2		ROUX06 DUP	Trichlorofluoromethane	1.2		0%
12/3/2023	ROUX06	Vinyl chloride	0.02	U	ROUX06 DUP	Vinyl chloride	0.02	U	0%
12/6/2023	ROUX01	1,1,1-Trichloroethane	0.1	U	ROUX01 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/6/2023	ROUX01	1,1,2-Trichloroethane	0.1	U	ROUX01 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/6/2023	ROUX01	1,1-Dichloroethane	0.05	U	ROUX01 DUP	1,1-Dichloroethane	0.05	U	0%
12/6/2023	ROUX01	1,1-Dichloroethene	0.05	U	ROUX01 DUP	1,1-Dichloroethene	0.05	U	0%
11/19/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/19/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.48		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.48		0%
11/19/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/19/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
11/19/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
11/19/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
11/19/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/19/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/19/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/19/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
11/19/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
11/19/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/19/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/19/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/19/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
11/19/2023	ROUXB01	Trichlorofluoromethane	1.1		ROUXB01 DUP	Trichlorofluoromethane	1.1		0%
11/19/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
12/6/2023	ROUX01	1,2-Dibromoethane	0.2	U	ROUX01 DUP	1,2-Dibromoethane	0.2	U	0%
12/6/2023	ROUX01	1,2-Dichlorobenzene	0.2	U	ROUX01 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/6/2023	ROUX01	1,2-Dichloroethane	0.1	U	ROUX01 DUP	1,2-Dichloroethane	0.1	U	0%
12/6/2023	ROUX01	1,3-Dichlorobenzene	0.2	U	ROUX01 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/6/2023	ROUX01	1,4-Dichlorobenzene	0.2	U	ROUX01 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/6/2023	ROUX01	Benzyl chloride	0.5	U	ROUX01 DUP	Benzyl chloride	0.5	U	0%
12/6/2023	ROUX01	Carbon tetrachloride	0.2	U	ROUX01 DUP	Carbon tetrachloride	0.2	U	0%
12/6/2023	ROUX01	Chlorobenzene	0.1	U	ROUX01 DUP	Chlorobenzene	0.1	U	0%
12/6/2023	ROUX01	Chloroform	0.05	U	ROUX01 DUP	Chloroform	0.05	U	0%
12/6/2023	ROUX01	cis-1,2-Dichloroethene	0.05	U	ROUX01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/6/2023	ROUX01	Dichlorodifluoromethane	2.4		ROUX01 DUP	Dichlorodifluoromethane	2.4		0%
12/6/2023	ROUX01	Tetrachloroethene	0.1	U	ROUX01 DUP	Tetrachloroethene	0.1	U	0%
12/6/2023	ROUX01	trans-1,2-Dichloroethene	0.05	U	ROUX01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/6/2023	ROUX01	trans-1,3-Dichloropropene	0.05	U	ROUX01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/6/2023	ROUX01	Trichloroethene	0.1	U	ROUX01 DUP	Trichloroethene	0.1	U	0%
12/6/2023	ROUX01	Trichlorofluoromethane	1.2		ROUX01 DUP	Trichlorofluoromethane	1.2		0%
12/6/2023	ROUX01	Vinyl chloride	0.02	U	ROUX01 DUP	Vinyl chloride	0.02	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/6/2023	ROUX02	1,1,1-Trichloroethane	0.1	U	ROUX02 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/6/2023	ROUX02	1,1,2-Trichloroethane	0.1	U	ROUX02 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/6/2023	ROUX02	1,1-Dichloroethane	0.05	U	ROUX02 DUP	1,1-Dichloroethane	0.05	U	0%
12/6/2023	ROUX02	1,1-Dichloroethene	0.05	U	ROUX02 DUP	1,1-Dichloroethene	0.05	U	0%
12/6/2023	ROUX02	1,2-Dibromoethane	0.2	U	ROUX02 DUP	1,2-Dibromoethane	0.2	U	0%
12/6/2023	ROUX02	1,2-Dichlorobenzene	0.2	U	ROUX02 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/6/2023	ROUX02	1,2-Dichloroethane	0.1	U	ROUX02 DUP	1,2-Dichloroethane	0.1	U	0%
12/6/2023	ROUX02	1,3-Dichlorobenzene	0.2	U	ROUX02 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/6/2023	ROUX02	1,4-Dichlorobenzene	0.2	U	ROUX02 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/6/2023	ROUX02	Benzyl chloride	0.5	U	ROUX02 DUP	Benzyl chloride	0.5	U	0%
12/6/2023	ROUX02	Carbon tetrachloride	0.2	U	ROUX02 DUP	Carbon tetrachloride	0.2	U	0%
12/6/2023	ROUX02	Chlorobenzene	0.1	U	ROUX02 DUP	Chlorobenzene	0.1	U	0%
12/6/2023	ROUX02	Chloroform	0.05	U	ROUX02 DUP	Chloroform	0.05	U	0%
11/21/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/21/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46		0%
11/21/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/21/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
11/21/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
11/21/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
11/21/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/21/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/21/2023	ROUXB02	1,4-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/21/2023	ROUXB02	Benzyl chloride	0.5	U,L07	ROUXB02 DUP	Benzyl chloride	0.5	U,L07	0%
11/21/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
11/21/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/21/2023	ROUXB02	Tetrachloroethene	0.1	U	ROUXB02 DUP	Tetrachloroethene	0.1	U	0%
11/21/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/21/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/21/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
11/21/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
12/6/2023	ROUX02	cis-1,2-Dichloroethene	0.05	U	ROUX02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/6/2023	ROUX02	Tetrachloroethene	0.1	U	ROUX02 DUP	Tetrachloroethene	0.1	U	0%
12/6/2023	ROUX02	trans-1,2-Dichloroethene	0.05	U	ROUX02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/6/2023	ROUX02	trans-1,3-Dichloropropene	0.05	U	ROUX02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/6/2023	ROUX02	Trichloroethene	0.1	U	ROUX02 DUP	Trichloroethene	0.1	U	0%
12/6/2023	ROUX02	Trichlorofluoromethane	1.2		ROUX02 DUP	Trichlorofluoromethane	1.2		0%
12/6/2023	ROUX02	Vinyl chloride	0.02	U	ROUX02 DUP	Vinyl chloride	0.02	U	0%
12/8/2023	ROUX01	1,1,1-Trichloroethane	0.1	U	ROUX01 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/8/2023	ROUX01	1,1,2-Trichloroethane	0.1	U	ROUX01 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/8/2023	ROUX01	1,1-Dichloroethane	0.05	U	ROUX01 DUP	1,1-Dichloroethane	0.05	U	0%
12/8/2023	ROUX01	1,1-Dichloroethene	0.05	U	ROUX01 DUP	1,1-Dichloroethene	0.05	U	0%
12/8/2023	ROUX01	1,2-Dibromoethane	0.2	U	ROUX01 DUP	1,2-Dibromoethane	0.2	U	0%
12/8/2023	ROUX01	1,2-Dichlorobenzene	0.2	U	ROUX01 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/8/2023	ROUX01	1,2-Dichloroethane	0.1	U	ROUX01 DUP	1,2-Dichloroethane	0.1	U	0%
12/8/2023	ROUX01	1,3-Dichlorobenzene	0.2	U	ROUX01 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/8/2023	ROUX01	1,4-Dichlorobenzene	0.2	U	ROUX01 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/8/2023	ROUX01	Benzyl chloride	0.5	U	ROUX01 DUP	Benzyl chloride	0.5	U	0%
12/8/2023	ROUX01	Carbon tetrachloride	0.2	U	ROUX01 DUP	Carbon tetrachloride	0.2	U	0%
12/8/2023	ROUX01	Chlorobenzene	0.1	U	ROUX01 DUP	Chlorobenzene	0.1	U	0%
12/8/2023	ROUX01	Chloroform	0.05	U	ROUX01 DUP	Chloroform	0.05	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/8/2023	ROUX01	cis-1,2-Dichloroethene	0.05	U	ROUX01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/8/2023	ROUX01	Dichlorodifluoromethane	2.5		ROUX01 DUP	Dichlorodifluoromethane	2.5		0%
12/8/2023	ROUX01	Tetrachloroethene	0.1	U	ROUX01 DUP	Tetrachloroethene	0.1	U	0%
12/8/2023	ROUX01	trans-1,2-Dichloroethene	0.05	U	ROUX01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/8/2023	ROUX01	trans-1,3-Dichloropropene	0.05	U	ROUX01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/8/2023	ROUX01	Trichloroethene	0.1	U	ROUX01 DUP	Trichloroethene	0.1	U	0%
12/8/2023	ROUX01	Trichlorofluoromethane	1.3		ROUX01 DUP	Trichlorofluoromethane	1.3		0%
12/8/2023	ROUX01	Vinyl chloride	0.02	U	ROUX01 DUP	Vinyl chloride	0.02	U	0%
12/9/2023	ROUX03	1,1,1-Trichloroethane	0.1	U	ROUX03 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/9/2023	ROUX03	1,1,2-Trichloroethane	0.1	U	ROUX03 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/28/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/28/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.46		0%
11/28/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/28/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
11/28/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
11/28/2023	ROUXB01	1,1-Difluoroethane	0.13	J	ROUXB01 DUP	1,1-Difluoroethane	0.13	J	0%
11/28/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
11/28/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/28/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/28/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/28/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
11/28/2023	ROUXB01	Carbon tetrachloride	0.42		ROUXB01 DUP	Carbon tetrachloride	0.42		0%
11/28/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
11/28/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/28/2023	ROUXB01	Dichlorodifluoromethane	2		ROUXB01 DUP	Dichlorodifluoromethane	2		0%
11/28/2023	ROUXB01	Toluene	0.46		ROUXB01 DUP	Toluene	0.46		0%
11/28/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/28/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/28/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
11/28/2023	ROUXB01	Trichlorofluoromethane	1		ROUXB01 DUP	Trichlorofluoromethane	1		0%
11/28/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
12/9/2023	ROUX03	1,1-Dichloroethane	0.05	U	ROUX03 DUP	1,1-Dichloroethane	0.05	U	0%
12/9/2023	ROUX03	1,1-Dichloroethene	0.05	U	ROUX03 DUP	1,1-Dichloroethene	0.05	U	0%
12/9/2023	ROUX03	1,2-Dibromoethane	0.2	U	ROUX03 DUP	1,2-Dibromoethane	0.2	U	0%
12/9/2023	ROUX03	1,2-Dichlorobenzene	0.2	U	ROUX03 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/9/2023	ROUX03	1,3-Dichlorobenzene	0.2	U	ROUX03 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/9/2023	ROUX03	1,4-Dichlorobenzene	0.2	U	ROUX03 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/9/2023	ROUX03	Benzyl chloride	0.5	U	ROUX03 DUP	Benzyl chloride	0.5	U	0%
12/9/2023	ROUX03	Carbon tetrachloride	0.55		ROUX03 DUP	Carbon tetrachloride	0.55		0%
12/9/2023	ROUX03	Chlorobenzene	0.1	U	ROUX03 DUP	Chlorobenzene	0.1	U	0%
12/9/2023	ROUX03	cis-1,2-Dichloroethene	0.05	U	ROUX03 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/9/2023	ROUX03	Dichlorodifluoromethane	2.5		ROUX03 DUP	Dichlorodifluoromethane	2.5		0%
12/9/2023	ROUX03	Tetrachloroethene	0.1	U	ROUX03 DUP	Tetrachloroethene	0.1	U	0%
12/9/2023	ROUX03	trans-1,2-Dichloroethene	0.05	U	ROUX03 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/9/2023	ROUX03	trans-1,3-Dichloropropene	0.05	U	ROUX03 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/9/2023	ROUX03	Trichloroethene	0.1	U	ROUX03 DUP	Trichloroethene	0.1	U	0%
12/9/2023	ROUX03	Trichlorofluoromethane	1.3		ROUX03 DUP	Trichlorofluoromethane	1.3		0%
12/9/2023	ROUX03	Vinyl chloride	0.02	U	ROUX03 DUP	Vinyl chloride	0.02	U	0%
12/11/2023	ROUX07	1,1,1-Trichloroethane	0.1	U	ROUX07 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/11/2023	ROUX07	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		ROUX07 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/11/2023	ROUX07	1,1,2-Trichloroethane	0.1	U	ROUX07 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/11/2023	ROUX07	1,1-Dichloroethane	0.05	U	ROUX07 DUP	1,1-Dichloroethane	0.05	U	0%
12/11/2023	ROUX07	1,1-Dichloroethene	0.05	U	ROUX07 DUP	1,1-Dichloroethene	0.05	U	0%
12/11/2023	ROUX07	1,2-Dibromoethane	0.2	U	ROUX07 DUP	1,2-Dibromoethane	0.2	U	0%
12/11/2023	ROUX07	1,2-Dichlorobenzene	0.2	U	ROUX07 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/11/2023	ROUX07	1,2-Dichloroethane	0.1	U	ROUX07 DUP	1,2-Dichloroethane	0.1	U	0%
12/11/2023	ROUX07	1,3-Dichlorobenzene	0.2	U	ROUX07 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/11/2023	ROUX07	1,4-Dichlorobenzene	0.2	U	ROUX07 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/11/2023	ROUX07	Benzyl chloride	0.5	U	ROUX07 DUP	Benzyl chloride	0.5	U	0%
12/11/2023	ROUX07	Carbon tetrachloride	0.2	U	ROUX07 DUP	Carbon tetrachloride	0.2	U	0%
11/30/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
11/30/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
11/30/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
11/30/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
11/30/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
11/30/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
11/30/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
11/30/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
11/30/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
11/30/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
11/30/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
11/30/2023	ROUXB01	Dichlorodifluoromethane	2.4		ROUXB01 DUP	Dichlorodifluoromethane	2.4		0%
11/30/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
11/30/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
11/30/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
11/30/2023	ROUXB01	Trichlorofluoromethane	1.2		ROUXB01 DUP	Trichlorofluoromethane	1.2		0%
11/30/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
12/11/2023	ROUX07	Chlorobenzene	0.1	U	ROUX07 DUP	Chlorobenzene	0.1	U	0%
12/11/2023	ROUX07	Chloroform	0.05	U	ROUX07 DUP	Chloroform	0.05	U	0%
12/11/2023	ROUX07	cis-1,2-Dichloroethene	0.05	U	ROUX07 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/11/2023	ROUX07	Dichlorodifluoromethane	2.4		ROUX07 DUP	Dichlorodifluoromethane	2.4		0%
12/11/2023	ROUX07	Tetrachloroethene	0.1	U	ROUX07 DUP	Tetrachloroethene	0.1	U	0%
12/11/2023	ROUX07	Toluene	1.5		ROUX07 DUP	Toluene	1.5		0%
12/11/2023	ROUX07	trans-1,2-Dichloroethene	0.05	U	ROUX07 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/11/2023	ROUX07	trans-1,3-Dichloropropene	0.05	U	ROUX07 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/11/2023	ROUX07	Trichloroethene	0.1	U	ROUX07 DUP	Trichloroethene	0.1	U	0%
12/11/2023	ROUX07	Vinyl chloride	0.02	U	ROUX07 DUP	Vinyl chloride	0.02	U	0%
12/13/2023	ROUX04	1,1,1-Trichloroethane	0.1	U	ROUX04 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/13/2023	ROUX04	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		ROUX04 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		0%
12/13/2023	ROUX04	1,1,2-Trichloroethane	0.1	U	ROUX04 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/13/2023	ROUX04	1,1-Dichloroethane	0.05	U	ROUX04 DUP	1,1-Dichloroethane	0.05	U	0%
12/13/2023	ROUX04	1,1-Dichloroethene	0.05	U	ROUX04 DUP	1,1-Dichloroethene	0.05	U	0%
12/13/2023	ROUX04	1,1-Difluoroethane	0.58	J	ROUX04 DUP	1,1-Difluoroethane	0.58	J	0%
12/13/2023	ROUX04	1,2-Dibromoethane	0.2	U	ROUX04 DUP	1,2-Dibromoethane	0.2	U	0%
12/13/2023	ROUX04	1,2-Dichlorobenzene	0.2	U	ROUX04 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/13/2023	ROUX04	1,2-Dichloroethane	0.1	U	ROUX04 DUP	1,2-Dichloroethane	0.1	U	0%
12/13/2023	ROUX04	1,3-Dichlorobenzene	0.2	U	ROUX04 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/13/2023	ROUX04	1,4-Dichlorobenzene	0.2	U	ROUX04 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/13/2023	ROUX04	Benzene	0.57		ROUX04 DUP	Benzene	0.57		0%
12/13/2023	ROUX04	Benzyl chloride	0.5	U	ROUX04 DUP	Benzyl chloride	0.5	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/13/2023	ROUX04	Carbon tetrachloride	0.2	U	ROUX04 DUP	Carbon tetrachloride	0.2	U	0%
12/13/2023	ROUX04	Chlorobenzene	0.1	U	ROUX04 DUP	Chlorobenzene	0.1	U	0%
12/13/2023	ROUX04	Chloroform	0.05	U	ROUX04 DUP	Chloroform	0.05	U	0%
12/13/2023	ROUX04	cis-1,2-Dichloroethene	0.05	U	ROUX04 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/13/2023	ROUX04	Dichlorodifluoromethane	2.5		ROUX04 DUP	Dichlorodifluoromethane	2.5		0%
12/13/2023	ROUX04	Ethylbenzene	0.21		ROUX04 DUP	Ethylbenzene	0.21		0%
12/13/2023	ROUX04	Tetrachloroethene	0.1	U	ROUX04 DUP	Tetrachloroethene	0.1	U	0%
12/1/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/1/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
12/1/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
12/1/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
12/1/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/1/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/1/2023	ROUXB02	1,4-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/1/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
12/1/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
12/1/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/1/2023	ROUXB02	Dichlorodifluoromethane	2.3		ROUXB02 DUP	Dichlorodifluoromethane	2.3		0%
12/1/2023	ROUXB02	Tetrachloroethene	0.1	U	ROUXB02 DUP	Tetrachloroethene	0.1	U	0%
12/1/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/1/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/1/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
12/1/2023	ROUXB02	Trichlorofluoromethane	1.2		ROUXB02 DUP	Trichlorofluoromethane	1.2		0%
12/1/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
12/13/2023	ROUX04	trans-1,2-Dichloroethene	0.05	U	ROUX04 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/13/2023	ROUX04	trans-1,3-Dichloropropene	0.05	U	ROUX04 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/13/2023	ROUX04	Trichloroethene	0.1	U	ROUX04 DUP	Trichloroethene	0.1	U	0%
12/13/2023	ROUX04	Trichlorofluoromethane	1.3		ROUX04 DUP	Trichlorofluoromethane	1.3		0%
12/13/2023	ROUX04	Vinyl chloride	0.02	U	ROUX04 DUP	Vinyl chloride	0.02	U	0%
12/16/2023	ROUX05	1,1,1-Trichloroethane	0.1	U	ROUX05 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/16/2023	ROUX05	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45		ROUX05 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45		0%
12/16/2023	ROUX05	1,1,2-Trichloroethane	0.1	U	ROUX05 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/16/2023	ROUX05	1,1-Dichloroethane	0.05	U	ROUX05 DUP	1,1-Dichloroethane	0.05	U	0%
12/16/2023	ROUX05	1,1-Dichloroethene	0.05	U	ROUX05 DUP	1,1-Dichloroethene	0.05	U	0%
12/16/2023	ROUX05	1,2-Dibromoethane	0.2	U	ROUX05 DUP	1,2-Dibromoethane	0.2	U	0%
12/16/2023	ROUX05	1,2-Dichlorobenzene	0.2	U	ROUX05 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/16/2023	ROUX05	1,2-Dichloroethane	0.1	U	ROUX05 DUP	1,2-Dichloroethane	0.1	U	0%
12/16/2023	ROUX05	1,3-Dichlorobenzene	0.2	U	ROUX05 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/16/2023	ROUX05	1,4-Dichlorobenzene	0.2	U	ROUX05 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/16/2023	ROUX05	Benzyl chloride	0.5	U	ROUX05 DUP	Benzyl chloride	0.5	U	0%
12/16/2023	ROUX05	Carbon tetrachloride	0.2	U	ROUX05 DUP	Carbon tetrachloride	0.2	U	0%
12/16/2023	ROUX05	Chlorobenzene	0.1	U	ROUX05 DUP	Chlorobenzene	0.1	U	0%
12/16/2023	ROUX05	Chloroform	0.05	U	ROUX05 DUP	Chloroform	0.05	U	0%
12/16/2023	ROUX05	cis-1,2-Dichloroethene	0.05	U	ROUX05 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/16/2023	ROUX05	Dichlorodifluoromethane	2		ROUX05 DUP	Dichlorodifluoromethane	2		0%
12/16/2023	ROUX05	Ethylbenzene	0.088		ROUX05 DUP	Ethylbenzene	0.088		0%
12/16/2023	ROUX05	p- & m-Xylenes	0.31		ROUX05 DUP	p- & m-Xylenes	0.31		0%
12/16/2023	ROUX05	Tetrachloroethene	0.1	U	ROUX05 DUP	Tetrachloroethene	0.1	U	0%
12/16/2023	ROUX05	Total Xylenes	0.45		ROUX05 DUP	Total Xylenes	0.45		0%
12/16/2023	ROUX05	trans-1,2-Dichloroethene	0.05	U	ROUX05 DUP	trans-1,2-Dichloroethene	0.05	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/16/2023	ROUX05	trans-1,3-Dichloropropene	0.05	U	ROUX05 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/16/2023	ROUX05	Trichloroethene	0.1	U	ROUX05 DUP	Trichloroethene	0.1	U	0%
12/16/2023	ROUX05	Vinyl chloride	0.02	U	ROUX05 DUP	Vinyl chloride	0.02	U	0%
12/3/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/3/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		0%
12/3/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/3/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
12/3/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
12/3/2023	ROUXB01	1,1-Difluoroethane	0.29	J	ROUXB01 DUP	1,1-Difluoroethane	0.29	J	0%
12/3/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
12/3/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/3/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/3/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/3/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
12/3/2023	ROUXB01	Carbon tetrachloride	0.46		ROUXB01 DUP	Carbon tetrachloride	0.46		0%
12/3/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
12/3/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/3/2023	ROUXB01	Dichlorodifluoromethane	2.3		ROUXB01 DUP	Dichlorodifluoromethane	2.3		0%
12/3/2023	ROUXB01	Ethylbenzene	0.14		ROUXB01 DUP	Ethylbenzene	0.14		0%
12/3/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/3/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/3/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
12/3/2023	ROUXB01	Trichlorofluoromethane	1.2		ROUXB01 DUP	Trichlorofluoromethane	1.2		0%
12/3/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
12/8/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/8/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/8/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
12/8/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
12/8/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
12/8/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/8/2023	ROUXB02	1,2-Dichloroethane	0.1	U	ROUXB02 DUP	1,2-Dichloroethane	0.1	U	0%
12/8/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/8/2023	ROUXB02	1,4-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/8/2023	ROUXB02	Benzene	0.24		ROUXB02 DUP	Benzene	0.24		0%
12/8/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
12/8/2023	ROUXB02	Carbon tetrachloride	0.2	U	ROUXB02 DUP	Carbon tetrachloride	0.2	U	0%
12/8/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
12/8/2023	ROUXB02	Chloroform	0.05	U	ROUXB02 DUP	Chloroform	0.05	U	0%
12/8/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/8/2023	ROUXB02	Tetrachloroethene	0.1	U	ROUXB02 DUP	Tetrachloroethene	0.1	U	0%
12/8/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/8/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/8/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
12/8/2023	ROUXB02	Trichlorofluoromethane	1.3		ROUXB02 DUP	Trichlorofluoromethane	1.3		0%
12/8/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
12/9/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/9/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/9/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
12/9/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
12/9/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/9/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/9/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/9/2023	ROUXB02	1,4-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/9/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
12/9/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
12/9/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/9/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/9/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/9/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
12/9/2023	ROUXB02	Trichlorofluoromethane	1.3		ROUXB02 DUP	Trichlorofluoromethane	1.3		0%
12/9/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
12/11/2023	ROUXB02	1,1,1-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/11/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		0%
12/11/2023	ROUXB02	1,1,2-Trichloroethane	0.1	U	ROUXB02 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/11/2023	ROUXB02	1,1-Dichloroethane	0.05	U	ROUXB02 DUP	1,1-Dichloroethane	0.05	U	0%
12/11/2023	ROUXB02	1,1-Dichloroethene	0.05	U	ROUXB02 DUP	1,1-Dichloroethene	0.05	U	0%
12/11/2023	ROUXB02	1,2-Dibromoethane	0.2	U	ROUXB02 DUP	1,2-Dibromoethane	0.2	U	0%
12/11/2023	ROUXB02	1,2-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/11/2023	ROUXB02	1,2-Dichloroethane	0.1	U	ROUXB02 DUP	1,2-Dichloroethane	0.1	U	0%
12/11/2023	ROUXB02	1,3-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/11/2023	ROUXB02	1,4-Dichlorobenzene	0.2	U	ROUXB02 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/11/2023	ROUXB02	Benzyl chloride	0.5	U	ROUXB02 DUP	Benzyl chloride	0.5	U	0%
12/11/2023	ROUXB02	Carbon tetrachloride	0.2	U	ROUXB02 DUP	Carbon tetrachloride	0.2	U	0%
12/11/2023	ROUXB02	Chlorobenzene	0.1	U	ROUXB02 DUP	Chlorobenzene	0.1	U	0%
12/11/2023	ROUXB02	Chloroform	0.05	U	ROUXB02 DUP	Chloroform	0.05	U	0%
12/11/2023	ROUXB02	cis-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/11/2023	ROUXB02	Tetrachloroethene	0.1	U	ROUXB02 DUP	Tetrachloroethene	0.1	U	0%
12/11/2023	ROUXB02	trans-1,2-Dichloroethene	0.05	U	ROUXB02 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/11/2023	ROUXB02	trans-1,3-Dichloropropene	0.05	U	ROUXB02 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/11/2023	ROUXB02	Trichloroethene	0.1	U	ROUXB02 DUP	Trichloroethene	0.1	U	0%
12/11/2023	ROUXB02	Trichlorofluoromethane	1.3		ROUXB02 DUP	Trichlorofluoromethane	1.3		0%
12/11/2023	ROUXB02	Vinyl chloride	0.02	U	ROUXB02 DUP	Vinyl chloride	0.02	U	0%
12/13/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/13/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		0%
12/13/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/13/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
12/13/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
12/13/2023	ROUXB01	1,1-Difluoroethane	0.12	J	ROUXB01 DUP	1,1-Difluoroethane	0.12	J	0%
12/13/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
12/13/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/13/2023	ROUXB01	1,2-Dichloroethane	0.1	U	ROUXB01 DUP	1,2-Dichloroethane	0.1	U	0%
12/13/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/13/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/13/2023	ROUXB01	Benzene	0.24		ROUXB01 DUP	Benzene	0.24		0%
12/13/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
12/13/2023	ROUXB01	Carbon tetrachloride	0.2	U	ROUXB01 DUP	Carbon tetrachloride	0.2	U	0%
12/13/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
12/13/2023	ROUXB01	Chloroform	0.05	U	ROUXB01 DUP	Chloroform	0.05	U	0%
12/13/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/13/2023	ROUXB01	Dichlorodifluoromethane	2.6		ROUXB01 DUP	Dichlorodifluoromethane	2.6		0%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/13/2023	ROUXB01	p- & m-Xylenes	0.18		ROUXB01 DUP	p- & m-Xylenes	0.18		0%
12/13/2023	ROUXB01	Tetrachloroethene	0.1	U	ROUXB01 DUP	Tetrachloroethene	0.1	U	0%
12/13/2023	ROUXB01	Total Xylenes	0.24		ROUXB01 DUP	Total Xylenes	0.24		0%
12/13/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/13/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/13/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
12/13/2023	ROUXB01	Trichlorofluoromethane	1.3		ROUXB01 DUP	Trichlorofluoromethane	1.3		0%
12/13/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
12/16/2023	ROUXB01	1,1,1-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,1-Trichloroethane	0.1	U	0%
12/16/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45		0%
12/16/2023	ROUXB01	1,1,2-Trichloroethane	0.1	U	ROUXB01 DUP	1,1,2-Trichloroethane	0.1	U	0%
12/16/2023	ROUXB01	1,1-Dichloroethane	0.05	U	ROUXB01 DUP	1,1-Dichloroethane	0.05	U	0%
12/16/2023	ROUXB01	1,1-Dichloroethene	0.05	U	ROUXB01 DUP	1,1-Dichloroethene	0.05	U	0%
12/16/2023	ROUXB01	1,2-Dibromoethane	0.2	U	ROUXB01 DUP	1,2-Dibromoethane	0.2	U	0%
12/16/2023	ROUXB01	1,2-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,2-Dichlorobenzene	0.2	U	0%
12/16/2023	ROUXB01	1,2-Dichloroethane	0.1	U	ROUXB01 DUP	1,2-Dichloroethane	0.1	U	0%
12/16/2023	ROUXB01	1,3-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,3-Dichlorobenzene	0.2	U	0%
12/16/2023	ROUXB01	1,4-Dichlorobenzene	0.2	U	ROUXB01 DUP	1,4-Dichlorobenzene	0.2	U	0%
12/16/2023	ROUXB01	Benzyl chloride	0.5	U	ROUXB01 DUP	Benzyl chloride	0.5	U	0%
12/16/2023	ROUXB01	Carbon tetrachloride	0.2	U	ROUXB01 DUP	Carbon tetrachloride	0.2	U	0%
12/16/2023	ROUXB01	Chlorobenzene	0.1	U	ROUXB01 DUP	Chlorobenzene	0.1	U	0%
12/16/2023	ROUXB01	Chloroform	0.05	U	ROUXB01 DUP	Chloroform	0.05	U	0%
12/16/2023	ROUXB01	cis-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	cis-1,2-Dichloroethene	0.05	U	0%
12/16/2023	ROUXB01	Ethylbenzene	0.092		ROUXB01 DUP	Ethylbenzene	0.092		0%
12/16/2023	ROUXB01	Tetrachloroethene	0.1	U	ROUXB01 DUP	Tetrachloroethene	0.1	U	0%
12/16/2023	ROUXB01	trans-1,2-Dichloroethene	0.05	U	ROUXB01 DUP	trans-1,2-Dichloroethene	0.05	U	0%
12/16/2023	ROUXB01	trans-1,3-Dichloropropene	0.05	U	ROUXB01 DUP	trans-1,3-Dichloropropene	0.05	U	0%
12/16/2023	ROUXB01	Trichloroethene	0.1	U	ROUXB01 DUP	Trichloroethene	0.1	U	0%
12/16/2023	ROUXB01	Trichlorofluoromethane	1.1		ROUXB01 DUP	Trichlorofluoromethane	1.1		0%
12/16/2023	ROUXB01	Vinyl chloride	0.02	U	ROUXB01 DUP	Vinyl chloride	0.02	U	0%
12/3/2023	ROUXB01	1,2-Dichloroethane	0.094	J	ROUXB01 DUP	1,2-Dichloroethane	0.095	J	1.1%
12/16/2023	ROUXB01	1,1-Difluoroethane	0.094	J	ROUXB01 DUP	1,1-Difluoroethane	0.093	J	1.1%
11/5/2023	ROUXB02	1,2-Dichloroethane	0.09	J	ROUXB02 DUP	1,2-Dichloroethane	0.091	J	1.1%
11/7/2023	ROUX04	Toluene	0.88		ROUX04 DUP	Toluene	0.89		1.1%
12/9/2023	ROUX03	1,2-Dichloroethane	0.088	J	ROUX03 DUP	1,2-Dichloroethane	0.087	J	1.1%
11/30/2023	ROUX03	Total Xylenes	0.87		ROUX03 DUP	Total Xylenes	0.86		1.1%
12/9/2023	ROUX03	Chloroform	0.087		ROUX03 DUP	Chloroform	0.086		1.1%
12/9/2023	ROUXB02	1,2-Dichloroethane	0.087	J	ROUXB02 DUP	1,2-Dichloroethane	0.088	J	1.1%
11/5/2023	ROUX07	1,2-Dichloroethane	0.086	J	ROUX07 DUP	1,2-Dichloroethane	0.087	J	1.2%
11/3/2023	ROUXB02	Total Xylenes	0.85		ROUXB02 DUP	Total Xylenes	0.84		1.2%
11/1/2023	ROUXB01	1,2-Dichloroethane	0.084	J	ROUXB01 DUP	1,2-Dichloroethane	0.085	J	1.2%
11/28/2023	ROUX06	Toluene	0.78		ROUX06 DUP	Toluene	0.77		1.3%
11/28/2023	ROUX06	1,2-Dichloroethane	0.069	J	ROUX06 DUP	1,2-Dichloroethane	0.068	J	1.4%
11/28/2023	ROUXB01	1,2-Dichloroethane	0.066	J	ROUXB01 DUP	1,2-Dichloroethane	0.065	J	1.5%
11/9/2023	ROUXB02	Carbon tetrachloride	0.65		ROUXB02 DUP	Carbon tetrachloride	0.64		1.5%
11/14/2023	ROUX01	Total Xylenes	0.65		ROUX01 DUP	Total Xylenes	0.66		1.5%
11/9/2023	ROUX06	Carbon tetrachloride	0.64		ROUX06 DUP	Carbon tetrachloride	0.63		1.6%
11/16/2023	ROUX02	Benzene	0.64		ROUX02 DUP	Benzene	0.63		1.6%
11/30/2023	ROUX03	p- & m-Xylenes	0.64		ROUX03 DUP	p- & m-Xylenes	0.63		1.6%
11/3/2023	ROUXB02	p- & m-Xylenes	0.63		ROUXB02 DUP	p- & m-Xylenes	0.62		1.6%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/14/2023	ROUXB02	Tetrachloroethene	0.062	J	ROUXB02 DUP	Tetrachloroethene	0.061	J	1.6%
11/7/2023	ROUXB01	Carbon tetrachloride	0.61		ROUXB01 DUP	Carbon tetrachloride	0.6		1.6%
11/5/2023	ROUXB02	Benzene	0.6		ROUXB02 DUP	Benzene	0.61		1.7%
11/5/2023	ROUX07	Carbon tetrachloride	0.6		ROUX07 DUP	Carbon tetrachloride	0.59		1.7%
11/3/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.59		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.58		1.7%
11/7/2023	ROUX04	Carbon tetrachloride	0.59		ROUX04 DUP	Carbon tetrachloride	0.6		1.7%
11/9/2023	ROUX06	1,1,2-Trichloro-1,2,2-trifluoroethane	0.59		ROUX06 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.58		1.7%
11/5/2023	ROUX07	1,1,2-Trichloro-1,2,2-trifluoroethane	0.58		ROUX07 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.57		1.7%
11/14/2023	ROUXB02	Carbon tetrachloride	0.57		ROUXB02 DUP	Carbon tetrachloride	0.56		1.8%
12/9/2023	ROUX03	1,1,2-Trichloro-1,2,2-trifluoroethane	0.57		ROUX03 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.58		1.8%
12/11/2023	ROUX07	1,1-Difluoroethane	0.57	J	ROUX07 DUP	1,1-Difluoroethane	0.58	J	1.8%
11/7/2023	ROUX04	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		ROUX04 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.57		1.8%
12/9/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.57		1.8%
11/5/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.55		1.8%
11/10/2023	ROUX05	1,1-Difluoroethane	0.56	J	ROUX05 DUP	1,1-Difluoroethane	0.55	J	1.8%
11/10/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		1.9%
11/16/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		1.9%
12/8/2023	ROUX01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		ROUX01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.55		1.9%
12/9/2023	ROUX03	1,1-Difluoroethane	0.054	J	ROUX03 DUP	1,1-Difluoroethane	0.055	J	1.9%
11/12/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		1.9%
11/10/2023	ROUX05	Benzene	0.53		ROUX05 DUP	Benzene	0.52		1.9%
11/14/2023	ROUX01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		ROUX01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		1.9%
12/1/2023	ROUX04	Toluene	0.53		ROUX04 DUP	Toluene	0.54		1.9%
11/10/2023	ROUXB01	Carbon tetrachloride	0.52		ROUXB01 DUP	Carbon tetrachloride	0.53		1.9%
11/16/2023	ROUXB01	Benzene	0.52		ROUXB01 DUP	Benzene	0.53		1.9%
11/30/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.51		1.9%
11/12/2023	ROUX02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		ROUX02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		1.9%
11/16/2023	ROUX02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		ROUX02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		1.9%
12/6/2023	ROUX01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		ROUX01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.53		1.9%
12/6/2023	ROUX02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.51		ROUX02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.52		2.0%
11/10/2023	ROUX05	p- & m-Xylenes	0.98		ROUX05 DUP	p- & m-Xylenes	1		2.0%
12/1/2023	ROUX04	1,1,2-Trichloro-1,2,2-trifluoroethane	0.49		ROUX04 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.5		2.0%
11/3/2023	ROUXB02	Benzene	0.48		ROUXB02 DUP	Benzene	0.47		2.1%
11/30/2023	ROUXB01	Carbon tetrachloride	0.48		ROUXB01 DUP	Carbon tetrachloride	0.47		2.1%
12/3/2023	ROUXB01	p- & m-Xylenes	0.47		ROUXB01 DUP	p- & m-Xylenes	0.48		2.1%
11/14/2023	ROUX01	p- & m-Xylenes	0.47		ROUX01 DUP	p- & m-Xylenes	0.48		2.1%
12/13/2023	ROUX04	Total Xylenes	0.93		ROUX04 DUP	Total Xylenes	0.95		2.2%
12/1/2023	ROUX04	Carbon tetrachloride	0.46		ROUX04 DUP	Carbon tetrachloride	0.47		2.2%
12/3/2023	ROUX06	Carbon tetrachloride	0.46		ROUX06 DUP	Carbon tetrachloride	0.45		2.2%
11/21/2023	ROUXB02	Carbon tetrachloride	0.44		ROUXB02 DUP	Carbon tetrachloride	0.43		2.3%
11/19/2023	ROUX07	Carbon tetrachloride	0.44		ROUX07 DUP	Carbon tetrachloride	0.45		2.3%
11/30/2023	ROUXB01	1,2-Dichloroethane	0.084	J	ROUXB01 DUP	1,2-Dichloroethane	0.082	J	2.4%
11/30/2023	ROUXB01	Ethylbenzene	0.083		ROUXB01 DUP	Ethylbenzene	0.081		2.4%
11/7/2023	ROUXB01	1,2-Dichloroethane	0.082	J	ROUXB01 DUP	1,2-Dichloroethane	0.08	J	2.4%
11/7/2023	ROUX04	1,2-Dichloroethane	0.08	J	ROUX04 DUP	1,2-Dichloroethane	0.082	J	2.5%
11/19/2023	ROUXB01	Chloroform	0.077		ROUXB01 DUP	Chloroform	0.079		2.6%
11/19/2023	ROUXB01	1,2-Dichloroethane	0.076	J	ROUXB01 DUP	1,2-Dichloroethane	0.078	J	2.6%
11/28/2023	ROUX06	Benzene	0.38		ROUX06 DUP	Benzene	0.37		2.6%
11/7/2023	ROUXB01	1,4-Dichlorobenzene	0.037	J	ROUXB01 DUP	1,4-Dichlorobenzene	0.038	J	2.7%
11/30/2023	ROUX03	Benzene	0.74		ROUX03 DUP	Benzene	0.72		2.7%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/30/2023	ROUXB01	Total Xylenes	0.35		ROUXB01 DUP	Total Xylenes	0.34		2.9%
12/13/2023	ROUX04	p- & m-Xylenes	0.69		ROUX04 DUP	p- & m-Xylenes	0.71		2.9%
11/3/2023	ROUX01	Benzene	0.99		ROUX01 DUP	Benzene	0.96		3.0%
11/16/2023	ROUXB01	1,1-Difluoroethane	0.32	J	ROUXB01 DUP	1,1-Difluoroethane	0.33	J	3.1%
11/28/2023	ROUXB01	Total Xylenes	0.32		ROUXB01 DUP	Total Xylenes	0.31		3.1%
11/10/2023	ROUXB01	Ethylbenzene	0.095		ROUXB01 DUP	Ethylbenzene	0.098		3.2%
11/21/2023	ROUXB02	1,2-Dichloroethane	0.063	J	ROUXB02 DUP	1,2-Dichloroethane	0.061	J	3.2%
12/3/2023	ROUXB01	Total Xylenes	0.63		ROUXB01 DUP	Total Xylenes	0.65		3.2%
11/5/2023	ROUXB02	Total Xylenes	0.94		ROUXB02 DUP	Total Xylenes	0.97		3.2%
11/10/2023	ROUXB01	p- & m-Xylenes	0.31		ROUXB01 DUP	p- & m-Xylenes	0.3		3.2%
11/21/2023	ROUX05	p- & m-Xylenes	0.31		ROUX05 DUP	p- & m-Xylenes	0.32		3.2%
11/14/2023	ROUXB02	p- & m-Xylenes	0.92		ROUXB02 DUP	p- & m-Xylenes	0.89		3.3%
11/1/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.61		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.59		3.3%
11/3/2023	ROUXB02	Toluene	0.91		ROUXB02 DUP	Toluene	0.94		3.3%
11/3/2023	ROUXB02	1,1-Difluoroethane	0.6	J	ROUXB02 DUP	1,1-Difluoroethane	0.62	J	3.3%
12/16/2023	ROUXB01	p- & m-Xylenes	0.3		ROUXB01 DUP	p- & m-Xylenes	0.31		3.3%
11/7/2023	ROUXB01	1,1,2-Trichloro-1,2,2-trifluoroethane	0.59		ROUXB01 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.57		3.4%
12/6/2023	ROUX02	p- & m-Xylenes	0.59		ROUX02 DUP	p- & m-Xylenes	0.57		3.4%
11/3/2023	ROUXB02	Carbon tetrachloride	0.58		ROUXB02 DUP	Carbon tetrachloride	0.56		3.4%
11/3/2023	ROUX01	Carbon tetrachloride	0.58		ROUX01 DUP	Carbon tetrachloride	0.56		3.4%
12/13/2023	ROUXB01	Ethylbenzene	0.057		ROUXB01 DUP	Ethylbenzene	0.055		3.5%
11/16/2023	ROUX02	1,1-Difluoroethane	0.56	J	ROUX02 DUP	1,1-Difluoroethane	0.54	J	3.6%
11/3/2023	ROUX01	1,2-Dichloroethane	0.083	J	ROUX01 DUP	1,2-Dichloroethane	0.08	J	3.6%
11/14/2023	ROUXB02	Dichlorodifluoromethane	2.7		ROUXB02 DUP	Dichlorodifluoromethane	2.6		3.7%
11/19/2023	ROUXB01	Benzene	0.54		ROUXB01 DUP	Benzene	0.52		3.7%
11/14/2023	ROUX01	Dichlorodifluoromethane	2.7		ROUX01 DUP	Dichlorodifluoromethane	2.6		3.7%
12/11/2023	ROUX07	Ethylbenzene	0.27		ROUX07 DUP	Ethylbenzene	0.28		3.7%
12/16/2023	ROUX05	Benzene	0.27		ROUX05 DUP	Benzene	0.28		3.7%
12/8/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.54		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.56		3.7%
11/14/2023	ROUXB02	Benzene	0.8		ROUXB02 DUP	Benzene	0.83		3.7%
11/30/2023	ROUX03	Toluene	0.8		ROUX03 DUP	Toluene	0.83		3.7%
12/9/2023	ROUXB02	Carbon tetrachloride	0.53		ROUXB02 DUP	Carbon tetrachloride	0.55		3.8%
11/30/2023	ROUXB01	p- & m-Xylenes	0.26		ROUXB01 DUP	p- & m-Xylenes	0.25		3.8%
11/5/2023	ROUX07	Dichlorodifluoromethane	2.6		ROUX07 DUP	Dichlorodifluoromethane	2.5		3.8%
11/10/2023	ROUXB01	Dichlorodifluoromethane	2.5		ROUXB01 DUP	Dichlorodifluoromethane	2.4		4.0%
11/3/2023	ROUX01	Dichlorodifluoromethane	2.5		ROUX01 DUP	Dichlorodifluoromethane	2.6		4.0%
11/5/2023	ROUX07	1,1-Difluoroethane	0.75	J	ROUX07 DUP	1,1-Difluoroethane	0.72	J	4.0%
11/12/2023	ROUX02	Dichlorodifluoromethane	2.5		ROUX02 DUP	Dichlorodifluoromethane	2.4		4.0%
11/16/2023	ROUX02	Dichlorodifluoromethane	2.5		ROUX02 DUP	Dichlorodifluoromethane	2.6		4.0%
11/12/2023	ROUXB02	Benzene	0.74		ROUXB02 DUP	Benzene	0.77		4.1%
11/3/2023	ROUXB02	1,4-Dichlorobenzene	0.049	J	ROUXB02 DUP	1,4-Dichlorobenzene	0.047	J	4.1%
12/1/2023	ROUXB02	1,1,2-Trichloro-1,2,2-trifluoroethane	0.49		ROUXB02 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.51		4.1%
11/28/2023	ROUXB01	p- & m-Xylenes	0.24		ROUXB01 DUP	p- & m-Xylenes	0.23		4.2%
12/16/2023	ROUXB01	Benzene	0.24		ROUXB01 DUP	Benzene	0.23		4.2%
11/28/2023	ROUXB01	Benzene	0.24		ROUXB01 DUP	Benzene	0.25		4.2%
11/5/2023	ROUX07	Toluene	0.96		ROUX07 DUP	Toluene	1		4.2%
11/10/2023	ROUX05	Dichlorodifluoromethane	2.4		ROUX05 DUP	Dichlorodifluoromethane	2.5		4.2%
12/6/2023	ROUX02	1,1-Difluoroethane	0.48	J	ROUX02 DUP	1,1-Difluoroethane	0.5	J	4.2%
12/6/2023	ROUX02	Dichlorodifluoromethane	2.4		ROUX02 DUP	Dichlorodifluoromethane	2.5		4.2%
12/9/2023	ROUX03	Benzene	0.24		ROUX03 DUP	Benzene	0.25		4.2%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/13/2023	ROUX04	o-Xylene	0.24		ROUX04 DUP	o-Xylene	0.25		4.2%
12/8/2023	ROUXB02	Dichlorodifluoromethane	2.4		ROUXB02 DUP	Dichlorodifluoromethane	2.5		4.2%
12/11/2023	ROUXB02	Dichlorodifluoromethane	2.4		ROUXB02 DUP	Dichlorodifluoromethane	2.5		4.2%
11/19/2023	ROUX07	1,1,2-Trichloro-1,2,2-trifluoroethane	0.47		ROUX07 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.49		4.3%
11/16/2023	ROUXB01	Toluene	0.93		ROUXB01 DUP	Toluene	0.97		4.3%
12/6/2023	ROUX02	Toluene	0.92		ROUX02 DUP	Toluene	0.88		4.3%
12/16/2023	ROUX05	Toluene	0.46		ROUX05 DUP	Toluene	0.44		4.3%
11/30/2023	ROUX03	Dichlorodifluoromethane	2.3		ROUX03 DUP	Dichlorodifluoromethane	2.4		4.3%
11/9/2023	ROUX06	Ethylbenzene	0.091		ROUX06 DUP	Ethylbenzene	0.087		4.4%
11/21/2023	ROUX05	1,1-Difluoroethane	0.091	J	ROUX05 DUP	1,1-Difluoroethane	0.087	J	4.4%
11/5/2023	ROUXB02	p- & m-Xylenes	0.68		ROUXB02 DUP	p- & m-Xylenes	0.71		4.4%
12/1/2023	ROUXB02	Benzene	0.45		ROUXB02 DUP	Benzene	0.43		4.4%
11/3/2023	ROUXB02	o-Xylene	0.22		ROUXB02 DUP	o-Xylene	0.21		4.5%
11/14/2023	ROUX01	Ethylbenzene	0.22		ROUX01 DUP	Ethylbenzene	0.23		4.5%
11/10/2023	ROUXB01	Total Xylenes	0.43		ROUXB01 DUP	Total Xylenes	0.41		4.7%
11/19/2023	ROUXB01	Carbon tetrachloride	0.43		ROUXB01 DUP	Carbon tetrachloride	0.45		4.7%
11/21/2023	ROUX05	Total Xylenes	0.43		ROUX05 DUP	Total Xylenes	0.45		4.7%
12/13/2023	ROUXB01	o-Xylene	0.064		ROUXB01 DUP	o-Xylene	0.061		4.7%
11/19/2023	ROUXB01	Dichlorodifluoromethane	2.1		ROUXB01 DUP	Dichlorodifluoromethane	2.2		4.8%
11/21/2023	ROUXB02	Dichlorodifluoromethane	2.1		ROUXB02 DUP	Dichlorodifluoromethane	2		4.8%
11/12/2023	ROUX02	Benzene	0.63		ROUX02 DUP	Benzene	0.6		4.8%
11/21/2023	ROUX05	Dichlorodifluoromethane	2.1		ROUX05 DUP	Dichlorodifluoromethane	2		4.8%
11/28/2023	ROUXB01	o-Xylene	0.083		ROUXB01 DUP	o-Xylene	0.079		4.8%
12/16/2023	ROUXB01	Total Xylenes	0.41		ROUXB01 DUP	Total Xylenes	0.43		4.9%
11/5/2023	ROUXB02	Ethylbenzene	0.2		ROUXB02 DUP	Ethylbenzene	0.21		5.0%
11/21/2023	ROUX05	Benzene	0.2		ROUX05 DUP	Benzene	0.19		5.0%
12/6/2023	ROUX02	Total Xylenes	0.8		ROUX02 DUP	Total Xylenes	0.76		5.0%
12/16/2023	ROUXB01	Dichlorodifluoromethane	2		ROUXB01 DUP	Dichlorodifluoromethane	2.1		5.0%
11/19/2023	ROUX07	1,2-Dichloroethane	0.079	J	ROUX07 DUP	1,2-Dichloroethane	0.083	J	5.1%
11/7/2023	ROUXB01	Toluene	0.59		ROUXB01 DUP	Toluene	0.62		5.1%
11/16/2023	ROUXB01	Ethylbenzene	0.19		ROUXB01 DUP	Ethylbenzene	0.2		5.3%
12/3/2023	ROUX06	Benzene	0.94		ROUX06 DUP	Benzene	0.99		5.3%
11/10/2023	ROUX05	o-Xylene	0.37		ROUX05 DUP	o-Xylene	0.39		5.4%
12/1/2023	ROUX04	Benzene	0.72		ROUX04 DUP	Benzene	0.68		5.6%
11/5/2023	ROUXB02	1,1-Difluoroethane	1.8	J	ROUXB02 DUP	1,1-Difluoroethane	1.9	J	5.6%
11/21/2023	ROUXB02	Chloroform	0.07		ROUXB02 DUP	Chloroform	0.066		5.7%
11/14/2023	ROUX01	1,4-Dichlorobenzene	0.035	J	ROUX01 DUP	1,4-Dichlorobenzene	0.033	J	5.7%
11/28/2023	ROUXB01	Chloroform	0.086		ROUXB01 DUP	Chloroform	0.091		5.8%
12/1/2023	ROUX04	1,1-Difluoroethane	0.17	J	ROUX04 DUP	1,1-Difluoroethane	0.18	J	5.9%
11/10/2023	ROUXB01	Toluene	0.51		ROUXB01 DUP	Toluene	0.48		5.9%
12/6/2023	ROUX02	Ethylbenzene	0.17		ROUX02 DUP	Ethylbenzene	0.16		5.9%
12/1/2023	ROUX04	p- & m-Xylenes	0.33		ROUX04 DUP	p- & m-Xylenes	0.35		6.1%
11/21/2023	ROUX05	1,2-Dichloroethane	0.065	J	ROUX05 DUP	1,2-Dichloroethane	0.061	J	6.2%
11/21/2023	ROUX05	1,1,2-Trichloro-1,2,2-trifluoroethane	0.48		ROUX05 DUP	1,1,2-Trichloro-1,2,2-trifluoroethane	0.45		6.2%
12/3/2023	ROUXB01	o-Xylene	0.16		ROUXB01 DUP	o-Xylene	0.17		6.3%
11/7/2023	ROUX04	Chloroform	0.093		ROUX04 DUP	Chloroform	0.099		6.5%
11/7/2023	ROUXB01	Benzene	0.46		ROUXB01 DUP	Benzene	0.49		6.5%
11/21/2023	ROUX05	Ethylbenzene	0.092		ROUX05 DUP	Ethylbenzene	0.098		6.5%
11/3/2023	ROUX01	Ethylbenzene	0.15		ROUX01 DUP	Ethylbenzene	0.14		6.7%
12/1/2023	ROUX04	Total Xylenes	0.45		ROUX04 DUP	Total Xylenes	0.48		6.7%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/7/2023	ROUXB01	Trichlorofluoromethane	1.5		ROUXB01 DUP	Trichlorofluoromethane	1.4		6.7%
11/21/2023	ROUX05	Carbon tetrachloride	0.45		ROUX05 DUP	Carbon tetrachloride	0.42		6.7%
12/11/2023	ROUXB02	1,1-Difluoroethane	1.5	J	ROUXB02 DUP	1,1-Difluoroethane	1.6	J	6.7%
12/16/2023	ROUX05	1,1-Difluoroethane	0.15	J	ROUX05 DUP	1,1-Difluoroethane	0.16	J	6.7%
12/9/2023	ROUXB02	1,1-Difluoroethane	0.058	J	ROUXB02 DUP	1,1-Difluoroethane	0.062	J	6.9%
12/11/2023	ROUX07	o-Xylene	0.29		ROUX07 DUP	o-Xylene	0.31		6.9%
11/14/2023	ROUX01	Tetrachloroethene	0.085	J	ROUX01 DUP	Tetrachloroethene	0.079	J	7.1%
11/14/2023	ROUX01	Toluene	0.99		ROUX01 DUP	Toluene	0.92		7.1%
11/16/2023	ROUX02	Trichlorofluoromethane	1.4		ROUX02 DUP	Trichlorofluoromethane	1.3		7.1%
12/16/2023	ROUX05	o-Xylene	0.14		ROUX05 DUP	o-Xylene	0.13		7.1%
11/7/2023	ROUX04	Trichlorofluoromethane	1.4		ROUX04 DUP	Trichlorofluoromethane	1.5		7.1%
12/1/2023	ROUX04	Chloroform	0.098		ROUX04 DUP	Chloroform	0.091		7.1%
12/11/2023	ROUX07	p- & m-Xylenes	0.84		ROUX07 DUP	p- & m-Xylenes	0.9		7.1%
12/3/2023	ROUX06	1,1-Difluoroethane	0.55	J	ROUX06 DUP	1,1-Difluoroethane	0.59	J	7.3%
11/1/2023	ROUX03	1,2-Dichloroethane	0.082	J	ROUX03 DUP	1,2-Dichloroethane	0.088	J	7.3%
11/10/2023	ROUX05	Ethylbenzene	0.27		ROUX05 DUP	Ethylbenzene	0.29		7.4%
11/5/2023	ROUXB02	Chloroform	0.27		ROUXB02 DUP	Chloroform	0.25		7.4%
11/7/2023	ROUXB01	Dichlorodifluoromethane	2.7		ROUXB01 DUP	Dichlorodifluoromethane	2.5		7.4%
11/16/2023	ROUXB01	Dichlorodifluoromethane	2.7		ROUXB01 DUP	Dichlorodifluoromethane	2.5		7.4%
11/1/2023	ROUX03	Dichlorodifluoromethane	2.7		ROUX03 DUP	Dichlorodifluoromethane	2.5		7.4%
11/14/2023	ROUXB02	1,1-Difluoroethane	1.3	J	ROUXB02 DUP	1,1-Difluoroethane	1.4	J	7.7%
12/11/2023	ROUXB02	Toluene	1.3		ROUXB02 DUP	Toluene	1.4		7.7%
11/10/2023	ROUXB01	Tetrachloroethene	0.13		ROUXB01 DUP	Tetrachloroethene	0.12		7.7%
11/14/2023	ROUXB02	Total Xylenes	1.3		ROUXB02 DUP	Total Xylenes	1.2		7.7%
11/3/2023	ROUX01	o-Xylene	0.13		ROUX01 DUP	o-Xylene	0.12		7.7%
11/10/2023	ROUX05	1,2-Dichloroethane	0.13		ROUX05 DUP	1,2-Dichloroethane	0.14		7.7%
12/3/2023	ROUX06	Ethylbenzene	0.26		ROUX06 DUP	Ethylbenzene	0.28		7.7%
12/11/2023	ROUX07	Trichlorofluoromethane	1.3		ROUX07 DUP	Trichlorofluoromethane	1.2		7.7%
12/9/2023	ROUXB02	Dichlorodifluoromethane	2.6		ROUXB02 DUP	Dichlorodifluoromethane	2.4		7.7%
11/28/2023	ROUXB01	Ethylbenzene	0.075		ROUXB01 DUP	Ethylbenzene	0.069		8.0%
11/5/2023	ROUXB02	o-Xylene	0.25		ROUXB02 DUP	o-Xylene	0.27		8.0%
12/6/2023	ROUX01	Ethylbenzene	0.087		ROUX01 DUP	Ethylbenzene	0.094		8.0%
11/30/2023	ROUX03	Tetrachloroethene	0.037	J	ROUX03 DUP	Tetrachloroethene	0.034	J	8.1%
11/16/2023	ROUX02	Toluene	1.2		ROUX02 DUP	Toluene	1.1		8.3%
11/16/2023	ROUX02	Total Xylenes	1.2		ROUX02 DUP	Total Xylenes	1.1		8.3%
12/3/2023	ROUXB01	Chloroform	0.12		ROUXB01 DUP	Chloroform	0.11		8.3%
11/12/2023	ROUXB02	1,1-Difluoroethane	1.2	J	ROUXB02 DUP	1,1-Difluoroethane	1.3	J	8.3%
11/21/2023	ROUX05	o-Xylene	0.12		ROUX05 DUP	o-Xylene	0.13		8.3%
12/1/2023	ROUX04	Ethylbenzene	0.12		ROUX04 DUP	Ethylbenzene	0.13		8.3%
12/1/2023	ROUX04	o-Xylene	0.12		ROUX04 DUP	o-Xylene	0.13		8.3%
11/21/2023	ROUX05	Chloroform	0.071		ROUX05 DUP	Chloroform	0.065		8.5%
11/7/2023	ROUX04	o-Xylene	0.23		ROUX04 DUP	o-Xylene	0.21		8.7%
11/1/2023	ROUX03	Carbon tetrachloride	0.55		ROUX03 DUP	Carbon tetrachloride	0.6		9.1%
12/3/2023	ROUX06	Total Xylenes	1.1		ROUX06 DUP	Total Xylenes	1.2		9.1%
12/11/2023	ROUX07	Benzene	1.1		ROUX07 DUP	Benzene	1.2		9.1%
12/11/2023	ROUX07	Total Xylenes	1.1		ROUX07 DUP	Total Xylenes	1.2		9.1%
12/11/2023	ROUXB02	Total Xylenes	1.1		ROUXB02 DUP	Total Xylenes	1.2		9.1%
11/7/2023	ROUXB01	Chloroform	0.11		ROUXB01 DUP	Chloroform	0.12		9.1%
12/1/2023	ROUXB02	1,2-Dichloroethane	0.11		ROUXB02 DUP	1,2-Dichloroethane	0.1	U	9.1%
12/16/2023	ROUXB01	o-Xylene	0.11		ROUXB01 DUP	o-Xylene	0.12		9.1%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/10/2023	ROUXB01	Benzene	0.33		ROUXB01 DUP	Benzene	0.3		9.1%
11/21/2023	ROUXB02	Trichlorofluoromethane	1.1		ROUXB02 DUP	Trichlorofluoromethane	1		9.1%
11/21/2023	ROUX05	Trichlorofluoromethane	1.1		ROUX05 DUP	Trichlorofluoromethane	1		9.1%
12/3/2023	ROUXB01	Tetrachloroethene	0.086	J	ROUXB01 DUP	Tetrachloroethene	0.078	J	9.3%
11/30/2023	ROUXB01	o-Xylene	0.096		ROUXB01 DUP	o-Xylene	0.087		9.4%
12/9/2023	ROUXB02	Chloroform	0.085		ROUXB02 DUP	Chloroform	0.093		9.4%
12/6/2023	ROUX02	o-Xylene	0.21		ROUX02 DUP	o-Xylene	0.19		9.5%
11/1/2023	ROUX03	Benzene	0.52		ROUX03 DUP	Benzene	0.47		9.6%
11/30/2023	ROUXB01	Toluene	0.51		ROUXB01 DUP	Toluene	0.46		9.8%
11/28/2023	ROUX06	Total Xylenes	0.61		ROUX06 DUP	Total Xylenes	0.67		9.8%
11/1/2023	ROUXB01	o-Xylene	0.081		ROUXB01 DUP	o-Xylene	0.089		9.9%
12/3/2023	ROUX06	p- & m-Xylenes	0.81		ROUX06 DUP	p- & m-Xylenes	0.89		9.9%
11/21/2023	ROUXB02	Benzene	0.2		ROUXB02 DUP	Benzene	0.18		10.0%
12/16/2023	ROUX05	Trichlorofluoromethane	1		ROUX05 DUP	Trichlorofluoromethane	1.1		10.0%
11/7/2023	ROUX04	Total Xylenes	0.89		ROUX04 DUP	Total Xylenes	0.8		10.1%
11/30/2023	ROUX03	1,1-Difluoroethane	0.68	J	ROUX03 DUP	1,1-Difluoroethane	0.61	J	10.3%
11/7/2023	ROUX04	Benzene	0.57		ROUX04 DUP	Benzene	0.63		10.5%
11/7/2023	ROUX04	p- & m-Xylenes	0.66		ROUX04 DUP	p- & m-Xylenes	0.59		10.6%
11/3/2023	ROUX01	Total Xylenes	0.47		ROUX01 DUP	Total Xylenes	0.42		10.6%
12/3/2023	ROUX06	o-Xylene	0.28		ROUX06 DUP	o-Xylene	0.31		10.7%
11/28/2023	ROUX06	p- & m-Xylenes	0.46		ROUX06 DUP	p- & m-Xylenes	0.51		10.9%
12/11/2023	ROUXB02	o-Xylene	0.27		ROUXB02 DUP	o-Xylene	0.3		11.1%
12/9/2023	ROUXB02	o-Xylene	0.027	J	ROUXB02 DUP	o-Xylene	0.03	J	11.1%
12/8/2023	ROUX01	Benzene	0.27		ROUX01 DUP	Benzene	0.24		11.1%
12/11/2023	ROUXB02	p- & m-Xylenes	0.79		ROUXB02 DUP	p- & m-Xylenes	0.88		11.4%
11/14/2023	ROUXB02	Toluene	1.7		ROUXB02 DUP	Toluene	1.5		11.8%
11/3/2023	ROUX01	p- & m-Xylenes	0.34		ROUX01 DUP	p- & m-Xylenes	0.3		11.8%
11/9/2023	ROUX06	p- & m-Xylenes	0.34		ROUX06 DUP	p- & m-Xylenes	0.3		11.8%
12/3/2023	ROUX06	Tetrachloroethene	0.042	J	ROUX06 DUP	Tetrachloroethene	0.037	J	11.9%
12/11/2023	ROUXB02	Ethylbenzene	0.25		ROUXB02 DUP	Ethylbenzene	0.28		12.0%
11/16/2023	ROUX02	o-Xylene	0.33		ROUX02 DUP	o-Xylene	0.29		12.1%
12/16/2023	ROUXB01	Toluene	0.41		ROUXB01 DUP	Toluene	0.46		12.2%
11/19/2023	ROUX07	Benzene	0.49		ROUX07 DUP	Benzene	0.55		12.2%
12/11/2023	ROUXB02	Benzene	0.98		ROUXB02 DUP	Benzene	1.1		12.2%
11/16/2023	ROUX02	p- & m-Xylenes	0.88		ROUX02 DUP	p- & m-Xylenes	0.77		12.5%
11/30/2023	ROUX03	Chloroform	0.11		ROUX03 DUP	Chloroform	0.096		12.7%
11/9/2023	ROUX06	Total Xylenes	0.47		ROUX06 DUP	Total Xylenes	0.41		12.8%
11/1/2023	ROUXB01	Total Xylenes	0.31		ROUXB01 DUP	Total Xylenes	0.35		12.9%
11/1/2023	ROUXB01	p- & m-Xylenes	0.23		ROUXB01 DUP	p- & m-Xylenes	0.26		13.0%
11/28/2023	ROUX06	o-Xylene	0.15		ROUX06 DUP	o-Xylene	0.17		13.3%
11/14/2023	ROUXB02	o-Xylene	0.37		ROUXB02 DUP	o-Xylene	0.32		13.5%
11/16/2023	ROUXB01	o-Xylene	0.22		ROUXB01 DUP	o-Xylene	0.25		13.6%
11/14/2023	ROUXB02	1,4-Dichlorobenzene	0.05	J	ROUXB02 DUP	1,4-Dichlorobenzene	0.057	J	14.0%
11/30/2023	ROUXB01	Tetrachloroethene	0.084	J	ROUXB01 DUP	Tetrachloroethene	0.096	J	14.3%
11/7/2023	ROUX04	Ethylbenzene	0.21		ROUX04 DUP	Ethylbenzene	0.18		14.3%
11/9/2023	ROUX06	Chloroform	0.14		ROUX06 DUP	Chloroform	0.12		14.3%
11/16/2023	ROUX02	Ethylbenzene	0.28		ROUX02 DUP	Ethylbenzene	0.24		14.3%
12/3/2023	ROUXB01	Benzene	0.49		ROUXB01 DUP	Benzene	0.56		14.3%
11/12/2023	ROUX02	Toluene	1.4		ROUX02 DUP	Toluene	1.6		14.3%
11/3/2023	ROUX01	Chloroform	0.11		ROUX01 DUP	Chloroform	0.094		14.5%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/21/2023	ROUXB02	1,1-Difluoroethane	0.061	J	ROUXB02 DUP	1,1-Difluoroethane	0.07	J	14.8%
11/1/2023	ROUX03	Tetrachloroethene	0.087	J	ROUX03 DUP	Tetrachloroethene	0.1	U	14.9%
11/10/2023	ROUXB01	1,1-Difluoroethane	0.2	J	ROUXB01 DUP	1,1-Difluoroethane	0.17	J	15.0%
12/9/2023	ROUX03	p- & m-Xylenes	0.059		ROUX03 DUP	p- & m-Xylenes	0.068		15.3%
11/28/2023	ROUX06	Ethylbenzene	0.13		ROUX06 DUP	Ethylbenzene	0.15		15.4%
11/30/2023	ROUXB01	Chloroform	0.13		ROUXB01 DUP	Chloroform	0.11		15.4%
11/9/2023	ROUX06	o-Xylene	0.13		ROUX06 DUP	o-Xylene	0.11		15.4%
11/19/2023	ROUXB01	1,1-Difluoroethane	0.19	J	ROUXB01 DUP	1,1-Difluoroethane	0.22	J	15.8%
12/3/2023	ROUXB01	Toluene	0.76		ROUXB01 DUP	Toluene	0.64		15.8%
11/5/2023	ROUX07	p- & m-Xylenes	0.69		ROUX07 DUP	p- & m-Xylenes	0.58		15.9%
11/5/2023	ROUX07	Total Xylenes	0.94		ROUX07 DUP	Total Xylenes	0.79		16.0%
11/30/2023	ROUXB01	1,1-Difluoroethane	0.25	J	ROUXB01 DUP	1,1-Difluoroethane	0.29	J	16.0%
11/5/2023	ROUX07	o-Xylene	0.25		ROUX07 DUP	o-Xylene	0.21		16.0%
12/6/2023	ROUX02	Benzene	0.48		ROUX02 DUP	Benzene	0.4		16.7%
11/9/2023	ROUX06	1,1-Difluoroethane	0.6	J	ROUX06 DUP	1,1-Difluoroethane	0.5	J	16.7%
11/16/2023	ROUXB01	Total Xylenes	0.78		ROUXB01 DUP	Total Xylenes	0.91		16.7%
11/5/2023	ROUXB02	1,4-Dichlorobenzene	0.065	J	ROUXB02 DUP	1,4-Dichlorobenzene	0.076	J	16.9%
12/9/2023	ROUX03	Total Xylenes	0.081	J	ROUX03 DUP	Total Xylenes	0.095	J	17.3%
12/9/2023	ROUX03	o-Xylene	0.023	J	ROUX03 DUP	o-Xylene	0.027	J	17.4%
11/16/2023	ROUXB01	p- & m-Xylenes	0.56		ROUXB01 DUP	p- & m-Xylenes	0.66		17.9%
11/1/2023	ROUX03	1,1-Difluoroethane	0.56	J	ROUX03 DUP	1,1-Difluoroethane	0.66	J	17.9%
12/9/2023	ROUX03	Ethylbenzene	0.028	J	ROUX03 DUP	Ethylbenzene	0.033	J	17.9%
11/7/2023	ROUXB01	Ethylbenzene	0.16		ROUXB01 DUP	Ethylbenzene	0.19		18.8%
11/12/2023	ROUXB02	Ethylbenzene	0.16		ROUXB02 DUP	Ethylbenzene	0.19		18.8%
11/3/2023	ROUX01	Toluene	0.74		ROUX01 DUP	Toluene	0.6		18.9%
11/7/2023	ROUX04	1,4-Dichlorobenzene	0.063	J	ROUX04 DUP	1,4-Dichlorobenzene	0.051	J	19.0%
12/8/2023	ROUXB02	1,1-Difluoroethane	0.1	J	ROUXB02 DUP	1,1-Difluoroethane	0.12	J	20.0%
11/12/2023	ROUXB02	Toluene	1		ROUXB02 DUP	Toluene	1.2		20.0%
11/5/2023	ROUXB02	Tetrachloroethene	0.054	J	ROUXB02 DUP	Tetrachloroethene	0.043	J	20.4%
12/13/2023	ROUXB01	Toluene	0.39		ROUXB01 DUP	Toluene	0.31		20.5%
11/5/2023	ROUX07	Ethylbenzene	0.23		ROUX07 DUP	Ethylbenzene	0.18		21.7%
11/7/2023	ROUXB01	p- & m-Xylenes	0.55		ROUXB01 DUP	p- & m-Xylenes	0.67		21.8%
12/13/2023	ROUX04	Toluene	0.9		ROUX04 DUP	Toluene	1.1		22.2%
12/9/2023	ROUX03	Toluene	0.13		ROUX03 DUP	Toluene	0.16		23.1%
11/7/2023	ROUXB01	Total Xylenes	0.73		ROUXB01 DUP	Total Xylenes	0.9		23.3%
11/30/2023	ROUXB01	Benzene	0.46		ROUXB01 DUP	Benzene	0.35		23.9%
12/9/2023	ROUXB02	Benzene	0.25		ROUXB02 DUP	Benzene	0.31		24.0%
11/1/2023	ROUXB01	Ethylbenzene	0.062		ROUXB01 DUP	Ethylbenzene	0.077		24.2%
11/19/2023	ROUX07	Ethylbenzene	0.079		ROUX07 DUP	Ethylbenzene	0.1		26.6%
11/12/2023	ROUXB02	p- & m-Xylenes	0.51		ROUXB02 DUP	p- & m-Xylenes	0.65		27.5%
11/7/2023	ROUXB01	o-Xylene	0.18		ROUXB01 DUP	o-Xylene	0.23		27.8%
12/8/2023	ROUX01	o-Xylene	0.043	J	ROUX01 DUP	o-Xylene	0.031	J	27.9%
11/12/2023	ROUXB02	Total Xylenes	0.69		ROUXB02 DUP	Total Xylenes	0.89		29.0%
11/19/2023	ROUX07	Total Xylenes	0.31		ROUX07 DUP	Total Xylenes	0.4		29.0%
11/19/2023	ROUX07	p- & m-Xylenes	0.22		ROUX07 DUP	p- & m-Xylenes	0.29		31.8%
11/9/2023	ROUXB02	Tetrachloroethene	0.053	J	ROUXB02 DUP	Tetrachloroethene	0.036	J	32.1%
11/21/2023	ROUX05	Toluene	0.37		ROUX05 DUP	Toluene	0.49		32.4%
11/12/2023	ROUXB02	o-Xylene	0.18		ROUXB02 DUP	o-Xylene	0.24		33.3%
12/9/2023	ROUXB02	Total Xylenes	0.09	J	ROUXB02 DUP	Total Xylenes	0.12		33.3%
11/19/2023	ROUX07	o-Xylene	0.082		ROUX07 DUP	o-Xylene	0.11		34.1%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
12/6/2023	ROUX01	1,1-Difluoroethane	0.23	J	ROUX01 DUP	1,1-Difluoroethane	0.15	J	34.8%
11/9/2023	ROUXB02	Chloroform	0.11		ROUXB02 DUP	Chloroform	0.15		36.4%
12/8/2023	ROUX01	Total Xylenes	0.16		ROUX01 DUP	Total Xylenes	0.1		37.5%
12/1/2023	ROUXB02	1,1-Difluoroethane	0.13	J	ROUXB02 DUP	1,1-Difluoroethane	0.18	J	38.5%
12/8/2023	ROUXB02	Ethylbenzene	0.039	J	ROUXB02 DUP	Ethylbenzene	0.054		38.5%
12/8/2023	ROUX01	p- & m-Xylenes	0.12		ROUX01 DUP	p- & m-Xylenes	0.073		39.2%
12/9/2023	ROUXB02	Ethylbenzene	0.025	J	ROUXB02 DUP	Ethylbenzene	0.035	J	40.0%
12/8/2023	ROUX01	Ethylbenzene	0.048	J	ROUX01 DUP	Ethylbenzene	0.028	J	41.7%
12/1/2023	ROUXB02	Toluene	0.31		ROUXB02 DUP	Toluene	0.44		41.9%
11/9/2023	ROUXB02	Toluene	0.73		ROUXB02 DUP	Toluene	0.42		42.5%
12/1/2023	ROUXB02	Ethylbenzene	0.061		ROUXB02 DUP	Ethylbenzene	0.087		42.6%
12/9/2023	ROUXB02	p- & m-Xylenes	0.063		ROUXB02 DUP	p- & m-Xylenes	0.09		42.9%
11/9/2023	ROUXB02	Ethylbenzene	0.11		ROUXB02 DUP	Ethylbenzene	0.062		43.6%
11/1/2023	ROUX03	Ethylbenzene	0.34		ROUX03 DUP	Ethylbenzene	0.19		44.1%
11/21/2023	ROUXB02	Ethylbenzene	0.045	J	ROUXB02 DUP	Ethylbenzene	0.025	J	44.4%
12/6/2023	ROUX01	Total Xylenes	0.33		ROUX01 DUP	Total Xylenes	0.48		45.5%
12/6/2023	ROUX01	p- & m-Xylenes	0.24		ROUX01 DUP	p- & m-Xylenes	0.35		45.8%
11/21/2023	ROUXB02	o-Xylene	0.051		ROUXB02 DUP	o-Xylene	0.027	J	47.1%
12/1/2023	ROUXB02	Chloroform	0.097		ROUXB02 DUP	Chloroform	0.05	U	48.5%
11/21/2023	ROUXB02	Total Xylenes	0.19		ROUXB02 DUP	Total Xylenes	0.095	J	50.0%
12/8/2023	ROUX01	Toluene	0.28		ROUX01 DUP	Toluene	0.14		50.0%
11/21/2023	ROUXB02	p- & m-Xylenes	0.14		ROUXB02 DUP	p- & m-Xylenes	0.068		51.4%
12/8/2023	ROUX01	1,1-Difluoroethane	0.16	J	ROUX01 DUP	1,1-Difluoroethane	0.077	J	51.9%
12/6/2023	ROUX01	Benzene	0.63		ROUX01 DUP	Benzene	0.3		52.4%
12/6/2023	ROUX01	o-Xylene	0.085		ROUX01 DUP	o-Xylene	0.13		52.9%
11/1/2023	ROUX03	p- & m-Xylenes	1.5		ROUX03 DUP	p- & m-Xylenes	0.68		54.7%
11/1/2023	ROUX03	o-Xylene	0.56		ROUX03 DUP	o-Xylene	0.25		55.4%
12/6/2023	ROUX01	Toluene	0.45		ROUX01 DUP	Toluene	0.7		55.6%
11/1/2023	ROUX03	Total Xylenes	2.1		ROUX03 DUP	Total Xylenes	0.93		55.7%
12/1/2023	ROUXB02	Carbon tetrachloride	0.46		ROUXB02 DUP	Carbon tetrachloride	0.2	U	56.5%
11/3/2023	ROUX01	Tetrachloroethene	0.1	U	ROUX01 DUP	Tetrachloroethene	0.042	J	58.0%
11/9/2023	ROUXB02	p- & m-Xylenes	0.48		ROUXB02 DUP	p- & m-Xylenes	0.2		58.3%
11/1/2023	ROUX03	Toluene	2.3		ROUX03 DUP	Toluene	0.93		59.6%
11/21/2023	ROUXB02	Toluene	0.4		ROUXB02 DUP	Toluene	0.16		60.0%
12/9/2023	ROUXB02	Tetrachloroethene	0.1	U	ROUXB02 DUP	Tetrachloroethene	0.16		60.0%
11/9/2023	ROUXB02	Total Xylenes	0.68		ROUXB02 DUP	Total Xylenes	0.27		60.3%
11/19/2023	ROUXB01	Tetrachloroethene	0.1	U	ROUXB01 DUP	Tetrachloroethene	0.038	J	62.0%
11/7/2023	ROUX04	1,1-Difluoroethane	0.51	J	ROUX04 DUP	1,1-Difluoroethane	0.83	J	62.7%
11/9/2023	ROUXB02	o-Xylene	0.2		ROUXB02 DUP	o-Xylene	0.074		63.0%
11/19/2023	ROUX07	Toluene	0.56		ROUX07 DUP	Toluene	0.94		67.9%
12/1/2023	ROUXB02	p- & m-Xylenes	0.15		ROUXB02 DUP	p- & m-Xylenes	0.27		80.0%
12/1/2023	ROUXB02	Total Xylenes	0.21		ROUXB02 DUP	Total Xylenes	0.38		81.0%
11/10/2023	ROUX05	1,4-Dichlorobenzene	0.2	U	ROUX05 DUP	1,4-Dichlorobenzene	0.038	J	81.0%
11/1/2023	ROUX03	1,4-Dichlorobenzene	0.2	U	ROUX03 DUP	1,4-Dichlorobenzene	0.034	J	83.0%
12/8/2023	ROUXB02	Toluene	0.17		ROUXB02 DUP	Toluene	0.32		88.2%
11/9/2023	ROUXB02	1,1-Difluoroethane	5	U	ROUXB02 DUP	1,1-Difluoroethane	0.44	J	91.2%
11/19/2023	ROUXB01	Ethylbenzene	0.062		ROUXB01 DUP	Ethylbenzene	0.12		93.5%
12/9/2023	ROUXB02	Toluene	0.19		ROUXB02 DUP	Toluene	0.37		94.7%
12/1/2023	ROUXB02	o-Xylene	0.055		ROUXB02 DUP	o-Xylene	0.11		100.0%
12/8/2023	ROUXB02	o-Xylene	0.034	J	ROUXB02 DUP	o-Xylene	0.069		102.9%

Table 2. RPDs for Collected Ambient Air Samples - VOCs
Chiquita Canyon Landfill, Castaic, California

Deployment Date	Parent Sample Name	Analyte	Result Value	Qualifier	Duplicate Sample Name	Analyte	Result Value	Qualifier	RPD
11/19/2023	ROUX07	Tetrachloroethene	0.037	J	ROUX07 DUP	Tetrachloroethene	0.077	J	108.1%
11/7/2023	ROUXB01	1,1-Difluoroethane	0.3	J	ROUXB01 DUP	1,1-Difluoroethane	0.63	J	110.0%
12/8/2023	ROUXB02	p- & m-Xylenes	0.088		ROUXB02 DUP	p- & m-Xylenes	0.19		115.9%
12/8/2023	ROUXB02	Total Xylenes	0.12		ROUXB02 DUP	Total Xylenes	0.26		116.7%
11/10/2023	ROUX05	Tetrachloroethene	0.042	J	ROUX05 DUP	Tetrachloroethene	0.092	J	119.0%
11/19/2023	ROUXB01	Toluene	0.33		ROUXB01 DUP	Toluene	0.74		124.2%
11/28/2023	ROUXB01	Tetrachloroethene	0.038	J	ROUXB01 DUP	Tetrachloroethene	0.086	J	126.3%
11/1/2023	ROUXB01	Chloroform	0.1		ROUXB01 DUP	Chloroform	0.23		130.0%
11/1/2023	ROUXB01	Toluene	0.36		ROUXB01 DUP	Toluene	0.85		136.1%
11/19/2023	ROUXB01	o-Xylene	0.058		ROUXB01 DUP	o-Xylene	0.14		141.4%
11/19/2023	ROUXB01	Total Xylenes	0.22		ROUXB01 DUP	Total Xylenes	0.57		159.1%
11/19/2023	ROUXB01	p- & m-Xylenes	0.16		ROUXB01 DUP	p- & m-Xylenes	0.43		168.8%
11/3/2023	ROUXB02	Tetrachloroethene	0.037	J	ROUXB02 DUP	Tetrachloroethene	0.1	U	170.3%
12/1/2023	ROUX04	Tetrachloroethene	0.037	J	ROUX04 DUP	Tetrachloroethene	0.1	U	170.3%
11/19/2023	ROUX07	Chloroform	0.098		ROUX07 DUP	Chloroform	0.45		359.2%
11/3/2023	ROUX01	1,4-Dichlorobenzene	0.04	J	ROUX01 DUP	1,4-Dichlorobenzene	0.2	U	400.0%
11/19/2023	ROUX07	1,1-Difluoroethane	0.24	J	ROUX07 DUP	1,1-Difluoroethane	4.1	J,A01	1608.3%




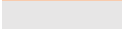
Notes

U = Analyte not-detected above laboratory practical quantitation limit
 RPD = Relative Percent Difference

Table 3. Roux Odor Observations
Chiquita Canyon Landfill, Castaic, California

Sample ID	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov	1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec						
ROUX01														Strong	Moderate	Moderate																																					
ROUX02																																																					
ROUX03															Strong	Moderate																																					
ROUX04															Slight																																						
ROUX05					Moderate		Moderate																																														
ROUX06								Slight																																													
ROUX07																																																					
ROUXB01							Moderate	Strong	Moderate						Moderate	Slight																																					
ROUXB02															Slight	Moderate																																					

Key

	Slight odor
	Moderate odor
	Strong odor
	No field activities performed

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01 DUP	ROUX01	ROUX01	ROUX01
Lab Sample ID	Cancer SL	Non-Cancer SL	—	2320983-01	2320984-01	2320984-08	2321098-01	—	2321097-01	2321318-01	2321441-09	2321442-09	—	—	2321654-09	2321654-10	2321842-09	2322026-09	—
Sample Date	µg/m³	µg/m³	10/31/2023	11/1/2023	11/3/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	140.13 U	—	—	—	—	124.56 U	—	—	—	—	93.42 U	93.42 U	—	—	—	—	87.19 U
Carbonyl sulfide	NS	10	110.57 U'	—	—	—	—	98.28 U'	—	—	—	—	73.71 U'	73.71 U'	—	—	—	—	68.798 U'
Dimethyl disulfide	NS	NS	173.38 U	—	—	—	—	154.11 U	—	—	—	—	115.58 U	115.58 U	—	—	—	—	107.88 U
Dimethyl sulfide	NS	NS	114.35 U	—	—	—	—	101.64 U	—	—	—	—	76.23 U	76.23 U	—	—	—	—	71.15 U
Ethyl mercaptan	NS	NS	114.30 U	—	—	—	—	101.60 U	—	—	—	—	76.20 U	76.20 U	—	—	—	—	71.12 U
Hydrogen sulfide	NS	NS	62.72 U	—	—	—	—	55.75 U	—	—	—	—	41.82 U	41.82 U	—	—	—	—	39.03 U
i-Butyl mercaptan	NS	NS	165.98 U	—	—	—	—	147.53 U	—	—	—	—	110.65 U	110.65 U	—	—	—	—	103.27 U
i-Propyl mercaptan	NS	NS	140.17 U	—	—	—	—	124.60 U	—	—	—	—	93.45 U	93.45 U	—	—	—	—	87.22 U
Methyl mercaptan	NS	NS	88.55 U	—	—	—	—	78.71 U	—	—	—	—	59.03 U	59.03 U	—	—	—	—	55.10 U
n-Propyl mercaptan	NS	NS	140.17 U	—	—	—	—	124.60 U	—	—	—	—	93.45 U	93.45 U	—	—	—	—	87.22 U
s-Butyl mercaptan	NS	NS	165.99 U	—	—	—	—	147.55 U	—	—	—	—	110.66 U	110.66 U	—	—	—	—	103.29 U
t-Butyl mercaptan	NS	NS	165.99 U	—	—	—	—	147.55 U	—	—	—	—	110.66 U	110.66 U	—	—	—	—	103.29 U
Tetrahydrothiophene	NS	NS	162.28 U	—	—	—	—	144.25 U	—	—	—	—	108.18 U	108.18 U	—	—	—	—	100.97 U
Total Sulfur	NS	NS	ND	—	—	—	—	ND	—	—	—	—	ND	ND	—	—	—	—	ND
Unidentified sulfurs	NS	NS	ND	—	—	—	—	ND	—	—	—	—	ND	ND	—	—	—	—	ND
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	—	0.62	0.58	0.58	0.58	—	0.57	0.58	0.52	0.54	—	—	0.53	0.54	0.52	0.47	—
1,1,2-Trichloroethane	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1-Dichloroethane	1.8	830	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Dichloroethene	NS	73	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Difluoroethane	NS	NS	—	5 U	5 U	5 U	5 U	—	0.52 J	5 U	0.31 J	0.39 J	—	—	0.48 J	0.48 J	0.39 J	0.11 J	—
1,2-Dibromoethane	0.0047	0.83	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—
1,2-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—
1,2-Dichloroethane	NS	NS	—	0.08 J	0.083 J	0.08 J	0.08 J	—	0.08 J	0.096 J	0.13	0.1 U	—	—	0.16	0.16	0.1 U	0.076 J	—
1,3-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—
1,4-Dichlorobenzene	NS	NS	—	0.2 U	0.04 J	0.2 U	0.2 U	—	0.034 J	0.2 U	0.2 U	0.2 U	—	—	0.035 J	0.033 J	0.2 U	0.2 U	—
Benzene	0.097	3.1	—	0.2	0.99	0.96	0.64	—	0.56	0.18	1	1.1	—	—	1.8	1.8	0.54	0.51	—
Benzyl chloride	NS	NS	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—
Carbon tetrachloride	0.47	42	—	0.54	0.58	0.56	0.62	—	0.6	0.62	0.51	0.2 U	—	—	0.55	0.55	0.2 U	0.45	—
Chlorobenzene	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—
Chloroform	NS	NS	—	0.11	0.11	0.094	0.12	—	0.12	0.083	0.11	0.05 U	—	—	0.13	0.13	0.05 U	0.075	—
cis-1,2-Dichloroethene	NS	8.3	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—
Dichlorodifluoromethane	NS	NS	—	2.6	2.5	2.6	2.7	—	2.6	2.5	2.5	2.6	—	—	2.7	2.6	2.6	2.1	—
Ethylbenzene	NS	NS	—	0.035 J	0.15	0.14	0.12	—	0.12	0.023 J	0.14	0.16	—	—	0.22	0.23	0.15	0.18	—
o-Xylene	NS	NS	—	0.038 J	0.13	0.12	0.11	—	0.12	0.028 J	0.14	0.15	—	—	0.18	0.18	0.16	0.05	—
p- & m-Xylenes	NS	NS	—	0.11	0.34	0.3	0.27	—	0.33	0.078	0.39	0.38	—	—	0.47	0.48	0.41	0.26	—
Tetrachloroethene	0.46	42	—	0.1 U	0.1 U	0.042 J	0.046 J	—	0.035 J	0.1 U	0.1 U	0.1 U	—	—	0.085 J	0.079 J	0.1 U	0.1 U	—
Toluene	NS	310	—	0.36	0.74	0.6	0.62	—	0.56	0.17	0.64	0.66	—	—	0.99	0.92	0.74	0.29	—
Total Xylenes	NS	NS	—	0.15	0.47	0.42	0.39	—	0.45	0.11	0.52	0.52	—	—	0.65	0.66	0.57	0.31	—
trans-1,2-Dichloroethene	NS	83	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—
trans-1,3-Dichloropropene	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—
Trichloroethene	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—
Trichlorofluoromethane	NS	1300	—	1.4	1.4	1.4	1.5	—	1.5	1.5	1.3	1.6	—	—	1.4	1.4	1.3	1.1	—
Vinyl chloride	0.0095	100	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01 DUP	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01
Lab Sample ID	Cancer SL	Non-Cancer SL	2322027-09	—	2322159-07	2322303-09	2322387-09	2322386-08	—	2322612-09	2322612-11	2322806-09	2322806-10	2323016-09	—	2323015-09	23463-26	23463-27	2323261-09
Sample Date	µg/m³	µg/m³	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/6/2023	12/8/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/12/2023	12/13/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	87.19 U	—	—	—	—	87.19 U	—	—	—	—	—	77.85 U	—	77.85 U	77.85 U	—
Carbonyl sulfide	NS	10	—	68.798 U'	—	—	—	—	68.798 U'	—	—	—	—	—	61.43 U'	—	61.43 U'	61.43 U'	—
Dimethyl disulfide	NS	NS	—	107.88 U	—	—	—	—	107.88 U	—	—	—	—	—	96.32 U	—	96.32 U	96.32 U	—
Dimethyl sulfide	NS	NS	—	71.15 U	—	—	—	—	71.15 U	—	—	—	—	—	63.53 U	—	63.53 U	63.53 U	—
Ethyl mercaptan	NS	NS	—	71.12 U	—	—	—	—	71.12 U	—	—	—	—	—	63.497 U	—	63.497 U	63.497 U	—
Hydrogen sulfide	NS	NS	—	39.03 U	—	—	—	—	39.03 U	—	—	—	—	—	34.85 U	—	34.85 U	34.85 U	—
i-Butyl mercaptan	NS	NS	—	103.27 U	—	—	—	—	103.27 U	—	—	—	—	—	92.21 U	—	92.21 U	92.21 U	—
i-Propyl mercaptan	NS	NS	—	87.22 U	—	—	—	—	87.22 U	—	—	—	—	—	77.87 U	—	77.87 U	77.87 U	—
Methyl mercaptan	NS	NS	—	55.10 U	—	—	—	—	55.10 U	—	—	—	—	—	49.19 U	—	49.19 U	49.19 U	—
n-Propyl mercaptan	NS	NS	—	87.22 U	—	—	—	—	87.22 U	—	—	—	—	—	77.87 U	—	77.87 U	77.87 U	—
s-Butyl mercaptan	NS	NS	—	103.29 U	—	—	—	—	103.29 U	—	—	—	—	—	92.22 U	—	92.22 U	92.22 U	—
t-Butyl mercaptan	NS	NS	—	103.29 U	—	—	—	—	103.29 U	—	—	—	—	—	92.22 U	—	92.22 U	92.22 U	—
Tetrahydrothiophene	NS	NS	—	100.97 U	—	—	—	—	100.97 U	—	—	—	—	—	90.15 U	—	90.15 U	90.15 U	—
Total Sulfur	NS	NS	—	ND	—	—	—	—	ND	—	—	—	—	—	ND	—	ND	ND	—
Unidentified sulfurs	NS	NS	—	ND	—	—	—	—	ND	—	—	—	—	—	ND	—	ND	ND	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.45	—	0.45	0.51	0.49	0.5	—	0.52	0.53	0.54	0.55	0.57	—	0.55	—	—	0.56
1,1,2-Trichloroethane	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
1,1-Difluoroethane	NS	NS	0.059 J	—	0.078 J	0.47 J	0.14 J	0.3 J	—	0.23 J	0.15 J	0.16 J	0.077 J	0.063 J	—	0.29 J	—	—	0.27 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	—	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U
1,2-Dichloroethane	NS	NS	0.06 J	—	0.061 J	0.085 J	0.11	0.097 J	—	0.1 U	0.1 U	0.1 U	0.1 U	0.087 J	—	0.1 U	—	—	0.1 U
1,3-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U
1,4-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U
Benzene	0.097	3.1	0.18	—	0.18	0.72	0.82	1.3	—	0.63	0.3	0.27	0.24	0.23	—	0.69	—	—	0.55
Benzyl chloride	NS	NS	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	—	0.5 U
Carbon tetrachloride	0.47	42	0.42	—	0.41	0.48	0.46	0.46	—	0.2 U	0.2 U	0.2 U	0.2 U	0.54	—	0.2 U	—	—	0.2 U
Chlorobenzene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
Chloroform	NS	NS	0.064	—	0.067	0.088	0.087	0.094	—	0.05 U	0.05 U	0.05 U	0.05 U	0.082	—	0.05 U	—	—	0.05 U
cis-1,2-Dichloroethene	NS	8.3	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
Dichlorodifluoromethane	NS	NS	1.9	—	2	2.3	2.3	2.3	—	2.4	2.4	2.5	2.5	2.6	—	2.4	—	—	2.5
Ethylbenzene	NS	NS	0.024 J	—	0.027 J	0.11	0.08	0.16	—	0.087	0.094	0.048 J	0.028 J	0.022 J	—	0.14	—	—	0.082
o-Xylene	NS	NS	0.027 J	—	0.027 J	0.1	0.061	0.13	—	0.085	0.13	0.043 J	0.031 J	0.05 U	—	0.13	—	—	0.081
p- & m-Xylenes	NS	NS	0.065	—	0.073	0.28	0.16	0.34	—	0.24	0.35	0.12	0.073	0.047 J	—	0.37	—	—	0.24
Tetrachloroethene	0.46	42	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
Toluene	NS	310	0.17	—	0.16	0.44	0.29	0.58	—	0.45	0.7	0.28	0.14	0.12	—	0.58	—	—	0.41
Total Xylenes	NS	NS	0.092 J	—	0.1	0.38	0.23	0.47	—	0.33	0.48	0.16	0.1	0.047 J	—	0.5	—	—	0.32
trans-1,2-Dichloroethene	NS	83	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
Trichloroethene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
Trichlorofluoromethane	NS	1300	1	—	1	1.3	1.2	1.2	—	1.2	1.2	1.3	1.3	1.3	—	1.3	—	—	1.3
Vinyl chloride	0.0095	100	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	—	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX01	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02 DUP	ROUX02	ROUX02	ROUX02	ROUX02 DUP	ROUX02	ROUX02	
Lab Sample ID	Cancer SL	Non-Cancer SL	2323378-08	—	2320983-02	2320984-02	2321098-02	—	2321097-02	2321318-02	2321441-07	2321442-07	2321442-10	—	2321654-07	2321842-07	2321842-10	2322026-07	—	—	
Sample Date	µg/m³	µg/m³	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/16/2023	11/19/2023	11/20/2023	—	
SULFUR - 307.91 (µg/m³)																					
Carbon disulfide	NS	NS	—	140.13 U	—	—	—	124.56 U	—	—	—	—	—	—	93.42 U	—	—	—	—	87.19 U	
Carbonyl sulfide	NS	10	—	110.57 U'	—	—	—	98.28 U'	—	—	—	—	—	—	73.71 U'	—	—	—	—	68.798 U'	
Dimethyl disulfide	NS	NS	—	173.38 U	—	—	—	154.11 U	—	—	—	—	—	—	115.58 U	—	—	—	—	107.88 U	
Dimethyl sulfide	NS	NS	—	114.35 U	—	—	—	101.64 U	—	—	—	—	—	—	76.23 U	—	—	—	—	71.15 U	
Ethyl mercaptan	NS	NS	—	114.30 U	—	—	—	101.60 U	—	—	—	—	—	—	76.20 U	—	—	—	—	71.12 U	
Hydrogen sulfide	NS	NS	—	62.72 U	—	—	—	55.75 U	—	—	—	—	—	—	41.82 U	—	—	—	—	39.03 U	
i-Butyl mercaptan	NS	NS	—	165.98 U	—	—	—	147.53 U	—	—	—	—	—	—	110.65 U	—	—	—	—	103.27 U	
i-Propyl mercaptan	NS	NS	—	140.17 U	—	—	—	124.60 U	—	—	—	—	—	—	93.45 U	—	—	—	—	87.22 U	
Methyl mercaptan	NS	NS	—	88.55 U	—	—	—	78.71 U	—	—	—	—	—	—	59.03 U	—	—	—	—	55.10 U	
n-Propyl mercaptan	NS	NS	—	140.17 U	—	—	—	124.60 U	—	—	—	—	—	—	93.45 U	—	—	—	—	87.22 U	
s-Butyl mercaptan	NS	NS	—	165.99 U	—	—	—	147.55 U	—	—	—	—	—	—	110.66 U	—	—	—	—	103.29 U	
t-Butyl mercaptan	NS	NS	—	165.99 U	—	—	—	147.55 U	—	—	—	—	—	—	110.66 U	—	—	—	—	103.29 U	
Tetrahydrothiophene	NS	NS	—	162.28 U	—	—	—	144.25 U	—	—	—	—	—	—	108.18 U	—	—	—	—	100.97 U	
Total Sulfur	NS	NS	—	ND	—	—	—	ND	—	—	—	—	—	—	ND	—	—	—	—	ND	
Unidentified sulfurs	NS	NS	—	ND	—	—	—	ND	—	—	—	—	—	—	ND	—	—	—	—	—	ND
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																					
1,1,1-Trichloroethane	NS	1000	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.45	—	0.61	0.59	0.58	—	0.58	0.6	0.53	0.52	0.53	—	0.55	0.52	0.53	0.47	—	—	
1,1,2-Trichloroethane	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	
1,1-Dichloroethane	1.8	830	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	
1,1-Dichloroethene	NS	73	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	
1,1-Difluoroethane	NS	NS	0.067 J	—	0.54 J	0.75 J	0.77 J	—	0.69 J	5 U	0.46 J	0.45 J	0.45 J	—	0.71 J	0.56 J	0.54 J	0.17 J	—	—	
1,2-Dibromoethane	0.0047	0.83	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	
1,2-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	
1,2-Dichloroethane	NS	NS	0.1 U	—	0.083 J	0.089 J	0.087 J	—	0.08 J	0.099 J	0.14	0.1 U	0.1 U	—	0.16	0.1 U	0.1 U	0.078 J	—	—	
1,3-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	
1,4-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.053 J	0.058 J	—	0.041 J	0.2 U	0.032 J	0.2 U	0.2 U	—	0.053 J	0.2 U	0.2 U	0.2 U	0.2 U	—	
Benzene	0.097	3.1	0.22	—	0.31	0.52	0.78	—	0.59	0.22	0.76	0.63	0.6	—	1.3	0.64	0.63	0.52	—	—	
Benzyl chloride	NS	NS	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	
Carbon tetrachloride	0.47	42	0.2 U	—	0.55	0.59	0.63	—	0.6	0.63	0.52	0.2 U	0.2 U	—	0.58	0.2 U	0.2 U	0.46	—	—	
Chlorobenzene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	
Chloroform	NS	NS	0.05 U	—	0.098	0.12	0.14	—	0.11	0.09	0.13	0.05 U	0.05 U	—	0.15	0.05 U	0.05 U	0.05 U	0.077	—	
cis-1,2-Dichloroethene	NS	8.3	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	
Dichlorodifluoromethane	NS	NS	2	—	2.6	2.5	2.8	—	2.7	2.6	2.4	2.5	2.4	—	2.7	2.5	2.6	2.1	—	—	
Ethylbenzene	NS	NS	0.034 J	—	0.11	0.21	0.24	—	0.17	0.055	0.23	0.28	0.28	—	0.29	0.28	0.24	0.087	—	—	
o-Xylene	NS	NS	0.033 J	—	0.13	0.24	0.27	—	0.19	0.069	0.28	0.37	0.37	—	0.31	0.33	0.29	0.082	—	—	
p- & m-Xylenes	NS	NS	0.084	—	0.37	0.69	0.73	—	0.53	0.18	0.79	1	1	—	0.86	0.88	0.77	0.23	—	—	
Tetrachloroethene	0.46	42	0.1 U	—	0.1 U	0.047 J	0.049 J	—	0.32	0.056 J	0.043 J	0.1 U	0.1 U	—	0.087 J	0.1 U	0.1 U	0.1 U	0.1 U	—	
Toluene	NS	310	0.16	—	0.82	1.1	1.2	—	0.77	0.31	1.1	1.4	1.6	—	1.6	1.2	1.1	0.35	—	—	
Total Xylenes	NS	NS	0.12	—	0.49	0.93	1	—	0.72	0.25	1.1	1.4	1.4	—	1.2	1.2	1.1	0.31	—	—	
trans-1,2-Dichloroethene	NS	83	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	
trans-1,3-Dichloropropene	NS	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	
Trichloroethene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	
Trichlorofluoromethane	NS	1300	1.1	—	1.4	1.4	1.5	—	1.5	1.5	1.3	1.3	1.3	—	1.5	1.4	1.3	1.1	—	—	
Vinyl chloride	0.0095	100	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	

Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02 DUP	ROUX02	ROUX02 DUP	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX03
Lab Sample ID	Cancer SL	Non-Cancer SL	2322027-07	—	2322303-07	2322387-07	2322386-07	—	—	2322612-07	2322612-10	2322806-07	2323016-07	—	2323015-07	23463-24	2323261-07	2323378-07	—	
Sample Date	µg/m ³	µg/m ³	11/21/2023	11/27/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/5/2023	12/6/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	10/31/2023	
SULFUR - 307.91 (µg/m³)																				
Carbon disulfide	NS	NS	—	87.19 U	—	—	—	87.19 U	87.19 U	—	—	—	—	77.85 U	—	77.85 U	—	—	—	140.13 U
Carbonyl sulfide	NS	10	—	68.798 U'	—	—	—	68.798 U'	68.798 U'	—	—	—	—	61.43 U'	—	61.43 U'	—	—	—	110.57 U'
Dimethyl disulfide	NS	NS	—	107.88 U	—	—	—	107.88 U	107.88 U	—	—	—	—	96.32 U	—	96.32 U	—	—	—	173.38 U
Dimethyl sulfide	NS	NS	—	71.15 U	—	—	—	71.15 U	71.15 U	—	—	—	—	63.53 U	—	63.53 U	—	—	—	114.35 U
Ethyl mercaptan	NS	NS	—	71.12 U	—	—	—	71.12 U	71.12 U	—	—	—	—	63.497 U	—	63.497 U	—	—	—	114.30 U
Hydrogen sulfide	NS	NS	—	39.03 U	—	—	—	39.03 U	39.03 U	—	—	—	—	34.85 U	—	34.85 U	—	—	—	62.72 U
i-Butyl mercaptan	NS	NS	—	103.27 U	—	—	—	103.27 U	103.27 U	—	—	—	—	92.21 U	—	92.21 U	—	—	—	165.98 U
i-Propyl mercaptan	NS	NS	—	87.22 U	—	—	—	87.22 U	87.22 U	—	—	—	—	77.87 U	—	77.87 U	—	—	—	140.17 U
Methyl mercaptan	NS	NS	—	55.10 U	—	—	—	55.10 U	55.10 U	—	—	—	—	49.19 U	—	49.19 U	—	—	—	88.55 U
n-Propyl mercaptan	NS	NS	—	87.22 U	—	—	—	87.22 U	87.22 U	—	—	—	—	77.87 U	—	77.87 U	—	—	—	140.17 U
s-Butyl mercaptan	NS	NS	—	103.29 U	—	—	—	103.29 U	103.29 U	—	—	—	—	92.22 U	—	92.22 U	—	—	—	165.99 U
t-Butyl mercaptan	NS	NS	—	103.29 U	—	—	—	103.29 U	103.29 U	—	—	—	—	92.22 U	—	92.22 U	—	—	—	165.99 U
Tetrahydrothiophene	NS	NS	—	100.97 U	—	—	—	100.97 U	100.97 U	—	—	—	—	90.15 U	—	90.15 U	—	—	—	162.28 U
Total Sulfur	NS	NS	—	ND	—	—	—	ND	ND	—	—	—	—	ND	—	ND	—	—	—	ND
Unidentified sulfurs	NS	NS	—	ND	—	—	—	ND	ND	—	—	—	—	ND	—	ND	—	—	—	ND
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	1000	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.46	—	0.52	0.5	0.5	—	—	0.51	0.52	0.54	0.57	—	0.54	—	0.54	—	0.44	—
1,1,2-Trichloroethane	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	—
1,1-Dichloroethane	1.8	830	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	—
1,1-Dichloroethene	NS	73	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	—
1,1-Difluoroethane	NS	NS	0.13 J	—	0.66 J	0.24 J	0.79 J	—	—	0.48 J	0.5 J	0.32 J	0.065 J	—	0.45 J	—	0.31 J	—	0.13 J	—
1,2-Dibromoethane	0.0047	0.83	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	0.2 U'	—
1,2-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	—
1,2-Dichloroethane	NS	NS	0.063 J	—	0.084 J	0.11	0.1	—	—	0.1 U	0.1 U	0.1 U	0.088 J	—	0.1 U	—	0.1 U	—	0.1 U	—
1,3-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	—
1,4-Dichlorobenzene	NS	NS	0.2 U	—	0.13 J	0.084 J	0.2	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	—
Benzene	0.097	3.1	0.24	—	0.68	0.63	1.3	—	—	0.48	0.4	0.27	0.27	—	1	—	0.47	—	0.31	—
Benzyl chloride	NS	NS	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	0.5 U	—
Carbon tetrachloride	0.47	42	0.44	—	0.49	0.47	0.46	—	—	0.2 U	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	—	0.2 U	—
Chlorobenzene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	—
Chloroform	NS	NS	0.07	—	0.093	0.093	0.11	—	—	0.05 U	0.05 U	0.05 U	0.085	—	0.05 U	—	0.05 U	—	0.05 U	—
cis-1,2-Dichloroethene	NS	8.3	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	—
Dichlorodifluoromethane	NS	NS	2	—	2.4	2.3	2.3	—	—	2.4	2.5	2.5	2.5	—	2.4	—	2.5	—	2	—
Ethylbenzene	NS	NS	0.031 J	—	0.16	0.13	0.35	—	—	0.17	0.16	0.055	0.071	—	0.27	—	0.15	—	0.11	—
o-Xylene	NS	NS	0.037 J	—	0.19	0.15	0.4	—	—	0.21	0.19	0.063	0.083	—	0.29	—	0.18	—	0.13	—
p- & m-Xylenes	NS	NS	0.096	—	0.53	0.42	1.2	—	—	0.59	0.57	0.16	0.26	—	0.84	—	0.51	—	0.37	—
Tetrachloroethene	0.46	42	0.1 U	—	0.1 U	0.036 J	0.041 J	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	—
Toluene	NS	310	0.27	—	0.77	0.63	2	—	—	0.92	0.88	0.24	0.2	—	1.3	—	0.7	—	0.54	—
Total Xylenes	NS	NS	0.13	—	0.72	0.57	1.6	—	—	0.8	0.76	0.23	0.35	—	1.1	—	0.69	—	0.5	—
trans-1,2-Dichloroethene	NS	83	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	—
trans-1,3-Dichloropropene	NS	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	—
Trichloroethene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	—
Trichlorofluoromethane	NS	1300	1.1	—	1.2	1.2	1.2	—	—	1.2	1.2	1.3	1.3	—	1.3	—	1.3	—	1	—
Vinyl chloride	0.0095	100	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	0.02 U'	—

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX03 DUP	ROUX03	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	
Lab Sample ID	Cancer SL	Non-Cancer SL	—	2320983-03	2320983-05	2320984-03	2321098-03	—	2321097-03	2321318-03	2321441-08	2321442-08	—	2321654-08	2321842-08	2322026-08	—	2322027-08	—	
Sample Date	µg/m³	µg/m³	10/31/2023	11/1/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	
SULFUR - 307.91 (µg/m³)																				
Carbon disulfide	NS	NS	140.13 U	—	—	—	—	124.56 U	—	—	—	—	93.42 U	—	—	—	—	87.19 U	—	87.19 U
Carbonyl sulfide	NS	10	110.57 U'	—	—	—	—	98.28 U'	—	—	—	—	73.71 U'	—	—	—	—	68.798 U'	—	68.798 U'
Dimethyl disulfide	NS	NS	173.38 U	—	—	—	—	154.11 U	—	—	—	—	115.58 U	—	—	—	—	107.88 U	—	107.88 U
Dimethyl sulfide	NS	NS	114.35 U	—	—	—	—	101.64 U	—	—	—	—	76.23 U	—	—	—	—	71.15 U	—	71.15 U
Ethyl mercaptan	NS	NS	114.30 U	—	—	—	—	101.60 U	—	—	—	—	76.20 U	—	—	—	—	71.12 U	—	71.12 U
Hydrogen sulfide	NS	NS	62.72 U	—	—	—	—	55.75 U	—	—	—	—	41.82 U	—	—	—	—	39.03 U	—	39.03 U
i-Butyl mercaptan	NS	NS	165.98 U	—	—	—	—	147.53 U	—	—	—	—	110.65 U	—	—	—	—	103.27 U	—	103.27 U
i-Propyl mercaptan	NS	NS	140.17 U	—	—	—	—	124.60 U	—	—	—	—	93.45 U	—	—	—	—	87.22 U	—	87.22 U
Methyl mercaptan	NS	NS	88.55 U	—	—	—	—	78.71 U	—	—	—	—	59.03 U	—	—	—	—	55.10 U	—	55.10 U
n-Propyl mercaptan	NS	NS	140.17 U	—	—	—	—	124.60 U	—	—	—	—	93.45 U	—	—	—	—	87.22 U	—	87.22 U
s-Butyl mercaptan	NS	NS	165.99 U	—	—	—	—	147.55 U	—	—	—	—	110.66 U	—	—	—	—	103.29 U	—	103.29 U
t-Butyl mercaptan	NS	NS	165.99 U	—	—	—	—	147.55 U	—	—	—	—	110.66 U	—	—	—	—	103.29 U	—	103.29 U
Tetrahydrothiophene	NS	NS	162.28 U	—	—	—	—	144.25 U	—	—	—	—	108.18 U	—	—	—	—	100.97 U	—	100.97 U
Total Sulfur	NS	NS	ND	—	—	—	—	ND	—	—	—	—	ND	—	—	—	—	ND	—	ND
Unidentified sulfurs	NS	NS	ND	—	—	—	—	ND	—	—	—	—	ND	—	—	—	—	ND	—	ND
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	1000	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	—	0.61	0.61	0.59	0.58	—	0.56	0.6	0.52	0.52	—	0.54	0.52	0.47	—	0.46	—	—
1,1,2-Trichloroethane	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
1,1-Dichloroethane	1.8	830	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
1,1-Dichloroethene	NS	73	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
1,1-Difluoroethane	NS	NS	—	0.56 J	0.66 J	0.76 J	0.73 J	—	0.56 J	5 U	0.65 J	0.55 J	—	0.59 J	0.57 J	0.19 J	—	0.078 J	—	—
1,2-Dibromoethane	0.0047	0.83	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	—
1,2-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—
1,2-Dichloroethane	NS	NS	—	0.082 J	0.088 J	0.089 J	0.087 J	—	0.082 J	0.099 J	0.13	0.1 U	—	0.16	0.1 U	0.077 J	—	0.062 J	—	—
1,3-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—
1,4-Dichlorobenzene	NS	NS	—	0.2 U	0.034 J	0.049 J	0.045 J	—	0.041 J	0.2 U	0.2 U	0.2 U	—	0.057 J	0.2 U	0.2 U	—	0.2 U	—	—
Benzene	0.097	3.1	—	0.52	0.47	0.6	0.64	—	0.47	0.24	0.85	0.97	—	1.3	0.63	0.36	—	0.18	—	—
Benzyl chloride	NS	NS	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	—
Carbon tetrachloride	0.47	42	—	0.55	0.6	0.58	0.63	—	0.59	0.63	0.51	0.2 U	—	0.55	0.2 U	0.46	—	0.43	—	—
Chlorobenzene	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
Chloroform	NS	NS	—	0.09	0.09	0.11	0.13	—	0.1	0.085	0.12	0.05 U	—	0.14	0.05 U	0.094	—	0.066	—	—
cis-1,2-Dichloroethene	NS	8.3	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
Dichlorodifluoromethane	NS	NS	—	2.7	2.5	2.5	2.8	—	2.6	2.6	2.4	2.5	—	2.7	2.5	2.1	—	2	—	—
Ethylbenzene	NS	NS	—	0.34	0.19	0.28	0.24	—	0.17	0.085	0.24	0.24	—	0.38	0.24	0.055	—	0.026 J	—	—
o-Xylene	NS	NS	—	0.56	0.25	0.35	0.28	—	0.21	0.097	0.28	0.29	—	0.43	0.29	0.053	—	0.028 J	—	—
p- & m-Xylenes	NS	NS	—	1.5	0.68	1	0.75	—	0.59	0.27	0.79	0.78	—	1.2	0.78	0.13	—	0.074	—	—
Tetrachloroethene	0.46	42	—	0.087 J	0.1 U	0.043 J	0.045 J	—	0.1 U	0.11	0.037 J	0.1 U	—	0.085 J	0.1 U	0.092 J	—	0.1 U	—	—
Toluene	NS	310	—	2.3	0.93	1.2	1.2	—	0.8	0.44	1.1	1.1	—	1.7	1.2	0.3	—	0.17	—	—
Total Xylenes	NS	NS	—	2.1	0.93	1.4	1	—	0.8	0.37	1.1	1.1	—	1.6	1.1	0.19	—	0.1	—	—
trans-1,2-Dichloroethene	NS	83	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
trans-1,3-Dichloropropene	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
Trichloroethene	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
Trichlorofluoromethane	NS	1300	—	1.5	1.5	1.4	1.5	—	1.5	1.5	1.3	1.4	—	1.4	1.3	1.1	—	1	—	—
Vinyl chloride	0.0095	100	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	—

Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX03	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX04	ROUX04	ROUX04	ROUX04
Lab Sample ID	Cancer SL	Non-Cancer SL	2322303-08	2322303-10	2322387-08	2322612-12	—	2322612-08	2322806-08	2323016-08	2323016-10	—	2323015-08	23463-25	2323261-08	—	2320983-04	2320984-04	2321098-04
Sample Date	µg/m³	µg/m³	11/30/2023	11/30/2023	12/1/2023	12/4/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	—	—	—	87.19 U	—	—	—	—	77.85 U	—	77.85 U	—	140.13 U	—	—	—
Carbonyl sulfide	NS	10	—	—	—	—	68.798 U'	—	—	—	—	61.43 U'	—	61.43 U'	—	110.57 U'	—	—	—
Dimethyl disulfide	NS	NS	—	—	—	—	107.88 U	—	—	—	—	96.32 U	—	96.32 U	—	173.38 U	—	—	—
Dimethyl sulfide	NS	NS	—	—	—	—	71.15 U	—	—	—	—	63.53 U	—	63.53 U	—	114.35 U	—	—	—
Ethyl mercaptan	NS	NS	—	—	—	—	71.12 U	—	—	—	—	63.497 U	—	63.497 U	—	114.30 U	—	—	—
Hydrogen sulfide	NS	NS	—	—	—	—	39.03 U	—	—	—	—	34.85 U	—	34.85 U	—	62.72 U	—	—	—
i-Butyl mercaptan	NS	NS	—	—	—	—	103.27 U	—	—	—	—	92.21 U	—	92.21 U	—	165.98 U	—	—	—
i-Propyl mercaptan	NS	NS	—	—	—	—	87.22 U	—	—	—	—	77.87 U	—	77.87 U	—	140.17 U	—	—	—
Methyl mercaptan	NS	NS	—	—	—	—	55.10 U	—	—	—	—	49.19 U	—	49.19 U	—	88.55 U	—	—	—
n-Propyl mercaptan	NS	NS	—	—	—	—	87.22 U	—	—	—	—	77.87 U	—	77.87 U	—	140.17 U	—	—	—
s-Butyl mercaptan	NS	NS	—	—	—	—	103.29 U	—	—	—	—	92.22 U	—	92.22 U	—	165.99 U	—	—	—
t-Butyl mercaptan	NS	NS	—	—	—	—	103.29 U	—	—	—	—	92.22 U	—	92.22 U	—	165.99 U	—	—	—
Tetrahydrothiophene	NS	NS	—	—	—	—	100.97 U	—	—	—	—	90.15 U	—	90.15 U	—	162.28 U	—	—	—
Total Sulfur	NS	NS	—	—	—	—	ND	—	—	—	—	ND	—	ND	—	ND	—	—	—
Unidentified sulfurs	NS	NS	—	—	—	—	ND	—	—	—	—	ND	—	ND	—	ND	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.52	0.52	0.49	0.53	—	0.52	0.55	0.57	0.58	—	0.56	—	0.57	—	0.59	0.59	0.58
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	0.68 J	0.61 J	0.15 J	0.49 J	—	0.77 J	0.22 J	0.054 J	0.055 J	—	0.49 J	—	0.5 J	—	0.61 J	1.2 J	7.3 J, A01
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	0.087 J	0.087 J	0.11	0.1 U	—	0.1 U	0.1 U	0.088 J	0.087 J	—	0.1 U	—	0.1 U	—	0.088 J	0.092 J	0.094 J
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.045 J	0.11 J	0.1 J
Benzene	0.097	3.1	0.74	0.72	0.73	1.1	—	0.88	0.29	0.24	0.25	—	1	—	0.61	—	0.37	0.67	0.9
Benzyl chloride	NS	NS	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	0.48	0.48	0.46	0.2 U	—	0.2 U	0.2 U	0.55	0.55	—	0.2 U	—	0.2 U	—	0.58	0.59	0.62
Chlorobenzene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Chloroform	NS	NS	0.11	0.096	0.091	0.05 U	—	0.05 U	0.05 U	0.087	0.086	—	0.05 U	—	0.05 U	—	0.089	0.12	0.57
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	2.3	2.4	2.3	2.4	—	2.4	2.6	2.5	2.5	—	2.4	—	2.5	—	2.7	2.5	2.7
Ethylbenzene	NS	NS	0.2	0.2	0.12	0.25	—	0.28	0.11	0.028 J	0.033 J	—	0.38	—	0.19	—	0.14	0.32	0.34
o-Xylene	NS	NS	0.22	0.22	0.13	0.27	—	0.32	0.12	0.023 J	0.027 J	—	0.38	—	0.22	—	0.18	0.38	0.39
p- & m-Xylenes	NS	NS	0.64	0.63	0.35	0.8	—	0.96	0.32	0.059	0.068	—	1.3	—	0.61	—	0.52	1.1	1.1
Tetrachloroethene	0.46	42	0.037 J	0.034 J	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.055 J	0.05 J
Toluene	NS	310	0.8	0.83	0.43	1.3	—	1.2	0.4	0.13	0.16	—	1.4	—	1.2	—	0.89	1.6	1.6
Total Xylenes	NS	NS	0.87	0.86	0.48	1.1	—	1.3	0.44	0.081 J	0.095 J	—	1.6	—	0.82	—	0.7	1.5	1.5
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	1.2	1.2	1.2	1.3	—	1.3	1.3	1.3	1.3	—	1.3	—	1.3	—	1.4	1.4	1.5
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX04	ROUX04 DUP	ROUX04	ROUX04 DUP	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04
Lab Sample ID	Cancer SL	Non-Cancer SL	—	—	2321097-04	2321097-08	2321318-04	2321441-06	2321442-06	—	2321654-06	2321842-06	2322026-06	—	2322027-06	—	2322159-06	2322303-06	2322387-06
Sample Date	µg/m³	µg/m³	11/6/2023	11/6/2023	11/7/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	124.56 U	124.56 U	—	—	—	—	—	93.42 U	—	—	—	87.19 U	—	87.19 U	—	—	—
Carbonyl sulfide	NS	10	98.28 U'	98.28 U'	—	—	—	—	—	73.71 U'	—	—	—	68.798 U'	—	68.798 U'	—	—	—
Dimethyl disulfide	NS	NS	154.11 U	154.11 U	—	—	—	—	—	115.58 U	—	—	—	107.88 U	—	107.88 U	—	—	—
Dimethyl sulfide	NS	NS	101.64 U	101.64 U	—	—	—	—	—	76.23 U	—	—	—	71.15 U	—	71.15 U	—	—	—
Ethyl mercaptan	NS	NS	101.60 U	101.60 U	—	—	—	—	—	76.20 U	—	—	—	71.12 U	—	71.12 U	—	—	—
Hydrogen sulfide	NS	NS	55.75 U	55.75 U	—	—	—	—	—	41.82 U	—	—	—	39.03 U	—	39.03 U	—	—	—
i-Butyl mercaptan	NS	NS	147.53 U	147.53 U	—	—	—	—	—	110.65 U	—	—	—	103.27 U	—	103.27 U	—	—	—
i-Propyl mercaptan	NS	NS	124.60 U	124.60 U	—	—	—	—	—	93.45 U	—	—	—	87.22 U	—	87.22 U	—	—	—
Methyl mercaptan	NS	NS	78.71 U	78.71 U	—	—	—	—	—	59.03 U	—	—	—	55.10 U	—	55.10 U	—	—	—
n-Propyl mercaptan	NS	NS	124.60 U	124.60 U	—	—	—	—	—	93.45 U	—	—	—	87.22 U	—	87.22 U	—	—	—
s-Butyl mercaptan	NS	NS	147.55 U	147.55 U	—	—	—	—	—	110.66 U	—	—	—	103.29 U	—	103.29 U	—	—	—
t-Butyl mercaptan	NS	NS	147.55 U	147.55 U	—	—	—	—	—	110.66 U	—	—	—	103.29 U	—	103.29 U	—	—	—
Tetrahydrothiophene	NS	NS	144.25 U	144.25 U	—	—	—	—	—	108.18 U	—	—	—	100.97 U	—	100.97 U	—	—	—
Total Sulfur	NS	NS	ND	ND	—	—	—	—	—	ND	—	—	—	ND	—	ND	—	—	—
Unidentified sulfurs	NS	NS	ND	ND	—	—	—	—	—	ND	—	—	—	ND	—	ND	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	—	—	0.56	0.57	0.59	0.52	0.52	—	0.54	0.52	0.48	—	0.46	—	0.46	0.52	0.49
1,1,2-Trichloroethane	NS	NS	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	—	—	0.51 J	0.83 J	5 U	0.66 J	0.89 J	—	1.1 J	1.6 J	0.25 J	—	0.16 J	—	0.5 J	0.98 J	0.17 J
1,2-Dibromoethane	0.0047	0.83	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	—	—	0.08 J	0.082 J	0.097 J	0.14	0.1 U	—	0.17	0.1 U	0.077 J	—	0.065 J	—	0.07 J	0.087 J	0.11
1,3-Dichlorobenzene	NS	NS	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	—	—	0.063 J	0.051 J	0.2 U	0.071 J	0.2 U	—	0.1 J	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.093 J	0.2 U
Benzene	0.097	3.1	—	—	0.57	0.63	0.23	0.94	0.76	—	1.3	0.71	0.47	—	0.2	—	0.82	0.61	0.72
Benzyl chloride	NS	NS	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	—	—	0.59	0.6	0.63	0.51	0.2 U	—	0.56	0.2 U	0.44	—	0.43	—	0.43	0.48	0.46
Chlorobenzene	NS	NS	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Chloroform	NS	NS	—	—	0.093	0.099	0.09	0.13	0.05 U	—	0.15	0.05 U	0.078	—	0.068	—	0.076	0.093	0.098
cis-1,2-Dichloroethene	NS	8.3	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	—	—	2.6	2.6	2.7	2.4	2.5	—	2.7	2.7	2.1	—	2	—	2	2.4	2.3
Ethylbenzene	NS	NS	—	—	0.21	0.18	0.064	0.37	0.32	—	0.43	0.35	0.07	—	0.041 J	—	0.23	0.17	0.12
o-Xylene	NS	NS	—	—	0.23	0.21	0.077	0.5	0.42	—	0.51	0.43	0.07	—	0.047 J	—	0.24	0.18	0.12
p- & m-Xylenes	NS	NS	—	—	0.66	0.59	0.22	1.4	1.2	—	1.4	1.2	0.19	—	0.13	—	0.71	0.55	0.33
Tetrachloroethene	0.46	42	—	—	0.1 U	0.1 U	0.045 J	0.039 J	0.1 U	—	0.083 J	0.1 U	0.1 U	—	0.14	—	0.1 U	0.1 U	0.037 J
Toluene	NS	310	—	—	0.88	0.89	0.36	1.6	1.6	—	2	1.7	0.3	—	0.27	—	1.1	0.84	0.53
Total Xylenes	NS	NS	—	—	0.89	0.8	0.3	1.9	1.6	—	1.9	1.6	0.26	—	0.18	—	0.95	0.74	0.45
trans-1,2-Dichloroethene	NS	83	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	NS	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	—	—	1.4	1.5	1.5	1.3	1.3	—	1.4	1.4	1.1	—	1	—	1.1	1.2	1.2
Vinyl chloride	0.0095	100	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX04 DUP	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04 DUP	ROUX04	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	
Lab Sample ID	Cancer SL	Non-Cancer SL	2322387-10	2322386-06	—	2322612-06	2322806-06	2323016-06	—	2323015-06	23463-23	2323261-06	2323261-10	2323378-06	—	2320820-01	2320984-05	2321098-05	—	
Sample Date	µg/m³	µg/m³	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/13/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	
SULFUR - 307.91 (µg/m³)																				
Carbon disulfide	NS	NS	—	—	87.19 U	—	—	—	—	77.85 U	—	77.85 U	—	—	140.13 U	—	—	—	—	124.56 U
Carbonyl sulfide	NS	10	—	—	68.798 U'	—	—	—	—	61.43 U'	—	61.43 U'	—	—	110.57 U'	—	—	—	—	98.28 U'
Dimethyl disulfide	NS	NS	—	—	107.88 U	—	—	—	—	96.32 U	—	96.32 U	—	—	173.38 U	—	—	—	—	154.11 U
Dimethyl sulfide	NS	NS	—	—	71.15 U	—	—	—	—	63.53 U	—	63.53 U	—	—	114.35 U	—	—	—	—	101.64 U
Ethyl mercaptan	NS	NS	—	—	71.12 U	—	—	—	—	63.497 U	—	63.497 U	—	—	114.30 U	—	—	—	—	101.60 U
Hydrogen sulfide	NS	NS	—	—	39.03 U	—	—	—	—	34.85 U	—	34.85 U	—	—	62.72 U	—	—	—	—	55.75 U
i-Butyl mercaptan	NS	NS	—	—	103.27 U	—	—	—	—	92.21 U	—	92.21 U	—	—	165.98 U	—	—	—	—	147.53 U
i-Propyl mercaptan	NS	NS	—	—	87.22 U	—	—	—	—	77.87 U	—	77.87 U	—	—	140.17 U	—	—	—	—	124.60 U
Methyl mercaptan	NS	NS	—	—	55.10 U	—	—	—	—	49.19 U	—	49.19 U	—	—	88.55 U	—	—	—	—	78.71 U
n-Propyl mercaptan	NS	NS	—	—	87.22 U	—	—	—	—	77.87 U	—	77.87 U	—	—	140.17 U	—	—	—	—	124.60 U
s-Butyl mercaptan	NS	NS	—	—	103.29 U	—	—	—	—	92.22 U	—	92.22 U	—	—	165.99 U	—	—	—	—	147.55 U
t-Butyl mercaptan	NS	NS	—	—	103.29 U	—	—	—	—	92.22 U	—	92.22 U	—	—	165.99 U	—	—	—	—	147.55 U
Tetrahydrothiophene	NS	NS	—	—	100.97 U	—	—	—	—	90.15 U	—	90.15 U	—	—	162.28 U	—	—	—	—	144.25 U
Total Sulfur	NS	NS	—	—	ND	—	—	—	—	ND	—	ND	—	—	ND	—	—	—	—	ND
Unidentified sulfurs	NS	NS	—	—	ND	—	—	—	—	ND	—	ND	—	—	ND	—	—	—	—	ND
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.5	0.5	—	0.51	0.54	0.57	—	0.54	—	0.56	0.56	0.45	—	0.61	0.57	0.58	—	—
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—
1,1-Difluoroethane	NS	NS	0.18 J	0.71 J	—	3.5 J	0.72 J	0.066 J	—	0.79 J	—	0.58 J	0.58 J	0.13 J	—	5 U	0.39 J	0.56 J	—	—
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—
1,2-Dichloroethane	NS	NS	0.11	0.1	—	0.1 U	0.1 U	0.092 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.093 J	0.088 J	0.086 J	—	—
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—
1,4-Dichlorobenzene	NS	NS	0.2 U	0.1 J	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.033 J	0.035 J	—	—
Benzene	0.097	3.1	0.68	1.3	—	1	0.26	0.37	—	1.2	—	0.57	0.57	0.28	—	0.4	0.54	0.59	—	—
Benzyl chloride	NS	NS	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	—
Carbon tetrachloride	0.47	42	0.47	0.47	—	0.2 U	0.2 U	0.56	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.57	0.57	0.61	—	—
Chlorobenzene	NS	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—
Chloroform	NS	NS	0.091	0.12	—	0.05 U	0.05 U	0.085	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.13	0.13	0.18	—	—
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—
Dichlorodifluoromethane	NS	NS	2.3	2.3	—	2.4	2.5	2.5	—	2.4	—	2.5	2.5	2.1	—	2.5	2.5	2.8	—	—
Ethylbenzene	NS	NS	0.13	0.31	—	0.3	0.062	0.034 J	—	0.37	—	0.21	0.21	0.079	—	0.3	0.63	0.2	—	—
o-Xylene	NS	NS	0.13	0.33	—	0.37	0.068	0.034 J	—	0.42	—	0.24	0.25	0.088	—	0.33	0.45	0.21	—	—
p- & m-Xylenes	NS	NS	0.35	0.99	—	1.1	0.18	0.092	—	1.2	—	0.69	0.71	0.27	—	1	2	0.59	—	—
Tetrachloroethene	0.46	42	0.1 U	0.039 J	—	0.1 U	0.1 U	0.32	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.048 J	0.052 J	0.058 J	—	—
Toluene	NS	310	0.54	1.7	—	1.8	0.27	0.32	—	1.7	—	0.9	1.1	0.44	—	1.1	1	0.8	—	—
Total Xylenes	NS	NS	0.48	1.3	—	1.5	0.25	0.13	—	1.7	—	0.93	0.95	0.35	—	1.4	2.5	0.8	—	—
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—
Trichloroethene	NS	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—
Trichlorofluoromethane	NS	1300	1.2	1.2	—	1.2	1.3	1.3	—	1.3	—	1.3	1.3	1.1	—	1.4	1.4	1.5	—	—
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX05	ROUX05 DUP	ROUX05	ROUX05	ROUX05	ROUX05
Lab Sample ID	Cancer SL	Non-Cancer SL	2321097-05	2321318-05	2321441-04	2321441-10	2321442-04	—	2321654-04	2321842-04	2322026-04	—	—	2322027-04	2322027-10	—	2322159-04	2322303-04	2322387-04
Sample Date	µg/m³	µg/m³	11/7/2023	11/9/2023	11/10/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/20/2023	11/21/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	—	—	—	—	93.42 U	—	—	—	87.19 U	87.19 U	—	—	87.19 U	—	—	—
Carbonyl sulfide	NS	10	—	—	—	—	—	73.71 U'	—	—	—	68.798 U'	68.798 U'	—	—	68.798 U'	—	—	—
Dimethyl disulfide	NS	NS	—	—	—	—	—	115.58 U	—	—	—	107.88 U	107.88 U	—	—	107.88 U	—	—	—
Dimethyl sulfide	NS	NS	—	—	—	—	—	76.23 U	—	—	—	71.15 U	71.15 U	—	—	71.15 U	—	—	—
Ethyl mercaptan	NS	NS	—	—	—	—	—	76.20 U	—	—	—	71.12 U	71.12 U	—	—	71.12 U	—	—	—
Hydrogen sulfide	NS	NS	—	—	—	—	—	41.82 U	—	—	—	39.03 U	39.03 U	—	—	39.03 U	—	—	—
i-Butyl mercaptan	NS	NS	—	—	—	—	—	110.65 U	—	—	—	103.27 U	103.27 U	—	—	103.27 U	—	—	—
i-Propyl mercaptan	NS	NS	—	—	—	—	—	93.45 U	—	—	—	87.22 U	87.22 U	—	—	87.22 U	—	—	—
Methyl mercaptan	NS	NS	—	—	—	—	—	59.03 U	—	—	—	55.10 U	55.10 U	—	—	55.10 U	—	—	—
n-Propyl mercaptan	NS	NS	—	—	—	—	—	93.45 U	—	—	—	87.22 U	87.22 U	—	—	87.22 U	—	—	—
s-Butyl mercaptan	NS	NS	—	—	—	—	—	110.66 U	—	—	—	103.29 U	103.29 U	—	—	103.29 U	—	—	—
t-Butyl mercaptan	NS	NS	—	—	—	—	—	110.66 U	—	—	—	103.29 U	103.29 U	—	—	103.29 U	—	—	—
Tetrahydrothiophene	NS	NS	—	—	—	—	—	108.18 U	—	—	—	100.97 U	100.97 U	—	—	100.97 U	—	—	—
Total Sulfur	NS	NS	—	—	—	—	—	ND	—	—	—	ND	ND	—	—	ND	—	—	—
Unidentified sulfurs	NS	NS	—	—	—	—	—	ND	—	—	—	ND	ND	—	—	ND	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.57	0.58	0.53	0.53	0.53	—	0.52	0.52	0.47	—	—	0.48	0.45	—	0.46	0.5	0.5
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	0.48 J	5 U	0.56 J	0.55 J	0.24 J	—	0.65 J	0.64 J	0.22 J	—	—	0.091 J	0.087 J	—	0.21 J	0.34 J	0.16 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	0.088 J	0.1	0.13	0.14	0.1 U	—	0.16	0.1 U	0.079 J	—	—	0.065 J	0.061 J	—	0.068 J	0.093 J	0.11
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	0.044 J	0.2 U	0.2 U	0.038 J	0.2 U	—	0.044 J	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
Benzene	0.097	3.1	1.3	0.29	0.53	0.52	0.5	—	1.1	0.81	0.9	—	—	0.2	0.19	—	0.31	1.1	0.39
Benzyl chloride	NS	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U,L07	0.5 U,L07	—	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	0.59	0.64	0.52	0.52	0.2 U	—	0.56	0.2 U	0.43	—	—	0.45	0.42	—	0.42	0.47	0.46
Chlorobenzene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
Chloroform	NS	NS	0.12	0.097	0.18	0.18	0.05 U	—	0.17	0.05 U	0.097	—	—	0.071	0.065	—	0.089	0.1	0.11
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	2.8	2.7	2.4	2.5	2.4	—	2.7	2.7	2.1	—	—	2.1	2	—	1.9	2.4	2.3
Ethylbenzene	NS	NS	0.25	0.14	0.27	0.29	0.27	—	0.64	0.23	0.092	—	—	0.092	0.098	—	0.24	0.44	0.081
o-Xylene	NS	NS	0.23	0.19	0.37	0.39	0.33	—	0.55	0.29	0.07	—	—	0.12	0.13	—	0.25	0.56	0.083
p- & m-Xylenes	NS	NS	0.7	0.51	0.98	1	0.99	—	2.1	0.71	0.2	—	—	0.31	0.32	—	0.81	1.5	0.22
Tetrachloroethene	0.46	42	0.2	0.1 U	0.042 J	0.092 J	0.1 U	—	0.091 J	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.037 J	0.046 J	0.038 J
Toluene	NS	310	0.78	0.69	1.3	1.3	0.95	—	1.4	1.3	0.32	—	—	0.37	0.49	—	0.59	1.9	0.4
Total Xylenes	NS	NS	0.92	0.7	1.4	1.4	1.3	—	2.7	1	0.27	—	—	0.43	0.45	—	1.1	2	0.3
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	1.4	1.5	1.3	1.3	1.3	—	1.4	1.4	1.1	—	—	1.1	1	—	1	1.2	1.2
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06
Lab Sample ID	Cancer SL	Non-Cancer SL	2322386-04	—	2322612-04	2322806-04	2323016-04	—	2323015-04	23463-21	2323261-04	2323378-04	2323378-09	—	2320820-02	2320984-06	2321098-06	—	2321097-06	2321318-06
Sample Date	µg/m³	µg/m³	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023
SULFUR - 307.91 (µg/m³)																				
Carbon disulfide	NS	NS	—	87.19 U	—	—	—	77.85 U	—	77.85 U	—	—	—	140.13 U	—	—	—	—	124.56 U	—
Carbonyl sulfide	NS	10	—	68.798 U'	—	—	—	61.43 U'	—	61.43 U'	—	—	—	110.57 U'	—	—	—	—	98.28 U'	—
Dimethyl disulfide	NS	NS	—	107.88 U	—	—	—	96.32 U	—	96.32 U	—	—	—	173.38 U	—	—	—	—	154.11 U	—
Dimethyl sulfide	NS	NS	—	71.15 U	—	—	—	63.53 U	—	63.53 U	—	—	—	114.35 U	—	—	—	—	101.64 U	—
Ethyl mercaptan	NS	NS	—	71.12 U	—	—	—	63.497 U	—	63.497 U	—	—	—	114.30 U	—	—	—	—	101.60 U	—
Hydrogen sulfide	NS	NS	—	39.03 U	—	—	—	34.85 U	—	34.85 U	—	—	—	62.72 U	—	—	—	—	55.75 U	—
i-Butyl mercaptan	NS	NS	—	103.27 U	—	—	—	92.21 U	—	92.21 U	—	—	—	165.98 U	—	—	—	—	147.53 U	—
i-Propyl mercaptan	NS	NS	—	87.22 U	—	—	—	77.87 U	—	77.87 U	—	—	—	140.17 U	—	—	—	—	124.60 U	—
Methyl mercaptan	NS	NS	—	55.10 U	—	—	—	49.19 U	—	49.19 U	—	—	—	88.55 U	—	—	—	—	78.71 U	—
n-Propyl mercaptan	NS	NS	—	87.22 U	—	—	—	77.87 U	—	77.87 U	—	—	—	140.17 U	—	—	—	—	124.60 U	—
s-Butyl mercaptan	NS	NS	—	103.29 U	—	—	—	92.22 U	—	92.22 U	—	—	—	165.99 U	—	—	—	—	147.55 U	—
t-Butyl mercaptan	NS	NS	—	103.29 U	—	—	—	92.22 U	—	92.22 U	—	—	—	165.99 U	—	—	—	—	147.55 U	—
Tetrahydrothiophene	NS	NS	—	100.97 U	—	—	—	90.15 U	—	90.15 U	—	—	—	162.28 U	—	—	—	—	144.25 U	—
Total Sulfur	NS	NS	—	ND	—	—	—	ND	—	ND	—	—	—	ND	—	—	—	—	ND	—
Unidentified sulfurs	NS	NS	—	ND	—	—	—	ND	—	ND	—	—	—	ND	—	—	—	—	ND	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	1000	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.49	—	0.52	0.54	0.56	—	0.54	—	0.54	0.45	0.45	—	0.6	0.57	0.56	—	0.58	0.59
1,1,2-Trichloroethane	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	0.47 J	—	0.46 J	0.082 J	0.051 J	—	0.32 J	—	0.35 J	0.15 J	0.16 J	—	5 U	0.86 J	1 J	—	0.48 J	0.6 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	0.1	—	0.1 U	0.1 U	0.087 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.093 J	0.087 J	0.091 J	—	0.082 J	0.1
1,3-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.042 J	0.051 J	0.059 J	—	0.038 J	0.2 U
Benzene	0.097	3.1	1.3	—	0.56	0.23	0.24	—	0.87	—	0.37	0.27	0.28	—	0.45	0.7	0.7	—	0.77	0.3
Benzyl chloride	NS	NS	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	0.46	—	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.56	0.56	0.6	—	0.59	0.64
Chlorobenzene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
Chloroform	NS	NS	0.14	—	0.05 U	0.05 U	0.098	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.14	0.17	0.21	—	0.11	0.14
cis-1,2-Dichloroethene	NS	8.3	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	2.3	—	2.3	2.4	2.6	—	2.3	—	2.5	2	2	—	2.5	2.6	2.6	—	2.6	2.7
Ethylbenzene	NS	NS	0.21	—	0.24	0.039 J	0.03 J	—	0.29	—	0.16	0.088	0.088	—	0.28	0.28	0.28	—	0.2	0.091
o-Xylene	NS	NS	0.29	—	0.32	0.039 J	0.042 J	—	0.32	—	0.28	0.14	0.13	—	0.44	0.32	0.34	—	0.22	0.13
p- & m-Xylenes	NS	NS	0.62	—	0.86	0.1	0.071	—	1	—	0.54	0.31	0.31	—	1.2	0.94	0.94	—	0.61	0.34
Tetrachloroethene	0.46	42	0.089 J	—	0.1 U	0.1 U	0.067 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.05 J	0.045 J	0.05 J	—	0.052 J	0.1 U
Toluene	NS	310	1.2	—	1.7	0.16	0.15	—	1.6	—	0.87	0.46	0.44	—	1.8	1.2	1.3	—	0.79	0.64
Total Xylenes	NS	NS	0.9	—	1.2	0.14	0.11	—	1.3	—	0.82	0.45	0.45	—	1.6	1.3	1.3	—	0.83	0.47
trans-1,2-Dichloroethene	NS	83	0.05 U	—	0.062	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
Trichloroethene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	1.2	—	1.2	1.3	1.3	—	1.3	—	1.3	1	1.1	—	1.4	1.4	1.4	—	1.4	1.5
Vinyl chloride	0.0095	100	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX06 DUP	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06 DUP	ROUX06	ROUX06 DUP	ROUX06	ROUX06	ROUX06	ROUX06 DUP
Lab Sample ID	Cancer SL	Non-Cancer SL	2321318-08	2321441-02	2321442-02	—	2321654-02	2321842-02	2322026-02	—	2322027-02	—	—	2322159-02	2322159-08	2322303-02	2322387-02	2322386-02	2322386-09
Sample Date	µg/m³	µg/m³	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/27/2023	11/28/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/3/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	—	—	93.42 U	—	—	—	87.19 U	—	87.19 U	87.19 U	—	—	—	—	—	—
Carbonyl sulfide	NS	10	—	—	—	73.71 U'	—	—	—	68.798 U'	—	68.798 U'	68.798 U'	—	—	—	—	—	—
Dimethyl disulfide	NS	NS	—	—	—	115.58 U	—	—	—	107.88 U	—	107.88 U	107.88 U	—	—	—	—	—	—
Dimethyl sulfide	NS	NS	—	—	—	76.23 U	—	—	—	71.15 U	—	71.15 U	71.15 U	—	—	—	—	—	—
Ethyl mercaptan	NS	NS	—	—	—	76.20 U	—	—	—	71.12 U	—	71.12 U	71.12 U	—	—	—	—	—	—
Hydrogen sulfide	NS	NS	—	—	—	41.82 U	—	—	—	39.03 U	—	39.03 U	39.03 U	—	—	—	—	—	—
i-Butyl mercaptan	NS	NS	—	—	—	110.65 U	—	—	—	103.27 U	—	103.27 U	103.27 U	—	—	—	—	—	—
i-Propyl mercaptan	NS	NS	—	—	—	93.45 U	—	—	—	87.22 U	—	87.22 U	87.22 U	—	—	—	—	—	—
Methyl mercaptan	NS	NS	—	—	—	59.03 U	—	—	—	55.10 U	—	55.10 U	55.10 U	—	—	—	—	—	—
n-Propyl mercaptan	NS	NS	—	—	—	93.45 U	—	—	—	87.22 U	—	87.22 U	87.22 U	—	—	—	—	—	—
s-Butyl mercaptan	NS	NS	—	—	—	110.66 U	—	—	—	103.29 U	—	103.29 U	103.29 U	—	—	—	—	—	—
t-Butyl mercaptan	NS	NS	—	—	—	110.66 U	—	—	—	103.29 U	—	103.29 U	103.29 U	—	—	—	—	—	—
Tetrahydrothiophene	NS	NS	—	—	—	108.18 U	—	—	—	100.97 U	—	100.97 U	100.97 U	—	—	—	—	—	—
Total Sulfur	NS	NS	—	—	—	ND	—	—	—	ND	—	ND	ND	—	—	—	—	—	—
Unidentified sulfurs	NS	NS	—	—	—	ND	—	—	—	ND	—	ND	ND	—	—	—	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.58	0.53	0.52	—	0.53	0.52	0.47	—	0.47	—	—	0.46	0.46	0.5	0.5	0.49	0.49
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	0.5 J	0.6 J	0.45 J	—	0.66 J	2.4 J	0.35 J	—	0.11 J	—	—	0.31 J	0.31 J	0.57 J	0.2 J	0.55 J	0.59 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	0.1	0.13	0.1 U	—	0.1 U	0.1 U	0.079 J	—	0.062 J	—	—	0.069 J	0.068 J	0.089 J	0.11	0.1	0.1
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	0.2 U	0.038 J	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	0.097	3.1	0.3	0.57	0.65	—	0.7	0.76	0.66	—	0.21	—	—	0.38	0.37	1	0.48	0.94	0.99
Benzyl chloride	NS	NS	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	0.63	0.52	0.2 U	—	0.2 U	0.2 U	0.43	—	0.42	—	—	0.42	0.42	0.46	0.46	0.46	0.45
Chlorobenzene	NS	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	NS	NS	0.12	0.18	0.05 U	—	0.05 U	0.05 U	0.095	—	0.093	—	—	0.11	0.11	0.13	0.11	0.16	0.16
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	2.7	2.5	2.7	—	2.7	2.6	2.1	—	2	—	—	2	2	2.4	2.3	2.2	2.2
Ethylbenzene	NS	NS	0.087	0.29	0.28	—	0.26	0.27	0.11	—	0.043 J	—	—	0.13	0.15	0.25	0.093	0.26	0.28
o-Xylene	NS	NS	0.11	0.38	0.36	—	0.3	0.31	0.12	—	0.051	—	—	0.15	0.17	0.28	0.099	0.28	0.31
p- & m-Xylenes	NS	NS	0.3	1.1	1	—	0.87	0.79	0.33	—	0.13	—	—	0.46	0.51	0.84	0.26	0.81	0.89
Tetrachloroethene	0.46	42	0.1 U	0.039 J	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.049 J	—	—	0.036 J	0.036 J	0.1 U	0.1 U	0.042 J	0.037 J
Toluene	NS	310	0.64	1.3	1.3	—	1.5	1.4	0.53	—	0.35	—	—	0.78	0.77	1.2	0.42	1.2	1.2
Total Xylenes	NS	NS	0.41	1.5	1.4	—	1.2	1.1	0.45	—	0.18	—	—	0.61	0.67	1.1	0.36	1.1	1.2
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	1.5	1.3	1.3	—	1.4	1.3	1.1	—	1.1	—	—	1	1	1.2	1.2	1.2	1.2
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'

Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06
Lab Sample ID	Cancer SL	Non-Cancer SL	—	2322612-02	2322806-02	2323016-02	—	2323015-02	23463-19	2323261-02	2323378-02	—	2320820-03	2320984-07	2321098-07	2321098-08	—	2321097-07	2321318-07	
Sample Date	µg/m³	µg/m³	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	
SULFUR - 307.91 (µg/m³)																				
Carbon disulfide	NS	NS	87.19 U	—	—	—	77.85 U	—	77.85 U	—	—	140.13 U	—	—	—	—	—	124.56 U	—	—
Carbonyl sulfide	NS	10	68.798 U'	—	—	—	61.43 U'	—	61.43 U'	—	—	110.57 U'	—	—	—	—	—	98.28 U'	—	—
Dimethyl disulfide	NS	NS	107.88 U	—	—	—	96.32 U	—	96.32 U	—	—	173.38 U	—	—	—	—	—	154.11 U	—	—
Dimethyl sulfide	NS	NS	71.15 U	—	—	—	63.53 U	—	63.53 U	—	—	114.35 U	—	—	—	—	—	101.64 U	—	—
Ethyl mercaptan	NS	NS	71.12 U	—	—	—	63.497 U	—	63.497 U	—	—	114.30 U	—	—	—	—	—	101.60 U	—	—
Hydrogen sulfide	NS	NS	39.03 U	—	—	—	34.85 U	—	34.85 U	—	—	62.72 U	—	—	—	—	—	55.75 U	—	—
i-Butyl mercaptan	NS	NS	103.27 U	—	—	—	92.21 U	—	92.21 U	—	—	165.98 U	—	—	—	—	—	147.53 U	—	—
i-Propyl mercaptan	NS	NS	87.22 U	—	—	—	77.87 U	—	77.87 U	—	—	140.17 U	—	—	—	—	—	124.60 U	—	—
Methyl mercaptan	NS	NS	55.10 U	—	—	—	49.19 U	—	49.19 U	—	—	88.55 U	—	—	—	—	—	78.71 U	—	—
n-Propyl mercaptan	NS	NS	87.22 U	—	—	—	77.87 U	—	77.87 U	—	—	140.17 U	—	—	—	—	—	124.60 U	—	—
s-Butyl mercaptan	NS	NS	103.29 U	—	—	—	92.22 U	—	92.22 U	—	—	165.99 U	—	—	—	—	—	147.55 U	—	—
t-Butyl mercaptan	NS	NS	103.29 U	—	—	—	92.22 U	—	92.22 U	—	—	165.99 U	—	—	—	—	—	147.55 U	—	—
Tetrahydrothiophene	NS	NS	100.97 U	—	—	—	90.15 U	—	90.15 U	—	—	162.28 U	—	—	—	—	—	144.25 U	—	—
Total Sulfur	NS	NS	ND	—	—	—	ND	—	ND	—	—	ND	—	—	—	—	—	ND	—	—
Unidentified sulfurs	NS	NS	ND	—	—	—	ND	—	ND	—	—	ND	—	—	—	—	—	ND	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	1000	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.0084 U,A01	0.1 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	—	0.52	0.54	0.56	—	0.56	—	0.55	0.43	—	0.6	0.57	0.58	0.57	—	0.6 A01	0.58	
1,1,2-Trichloroethane	NS	NS	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.0084 U,A01	0.1 U	
1,1-Dichloroethane	1.8	830	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.0063 U,A01	0.05 U	
1,1-Dichloroethene	NS	73	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.012 U,A01	0.05 U	
1,1-Difluoroethane	NS	NS	—	0.63 J	0.17 J	0.13 J	—	0.65 J	—	0.47 J	0.21 J	—	1.8 J	8.1	0.75 J	0.72 J	—	0.43 J,A01	0.28 J	
1,2-Dibromoethane	0.0047	0.83	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.021 U'	0.2 U'	
1,2-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.017 U,A01	0.2 U	
1,2-Dichloroethane	NS	NS	—	0.1 U	0.1 U	0.089 J	—	0.1 U	—	0.1 U	0.1 U	—	0.091 J	0.084 J	0.086 J	0.087 J	—	0.085 J,A01	0.1	
1,3-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.02 U,A01	0.2 U	
1,4-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	0.04 J	0.038 J	0.05 J	0.05 J	—	0.024 U,A01	0.2 U	
Benzene	0.097	3.1	—	0.54	0.24	0.3	—	0.92	—	0.46	0.35	—	0.43	0.64	0.62	0.62	—	0.67 A01	0.31	
Benzyl chloride	NS	NS	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.008 U,A01	0.5 U	
Carbon tetrachloride	0.47	42	—	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	0.2 U	—	0.57	0.56	0.6	0.59	—	0.62 A01	0.64	
Chlorobenzene	NS	NS	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.012 U,A01	0.1 U	
Chloroform	NS	NS	—	0.05 U	0.05 U	0.089	—	0.05 U	—	0.05 U	0.05 U	—	0.15	0.27	0.17	0.17	—	0.49 A01	0.17	
cis-1,2-Dichloroethene	NS	8.3	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.0067 U,A01	0.05 U	
Dichlorodifluoromethane	NS	NS	—	2.2	2.4	2.5	—	2.4	—	2.5	2	—	2.5	2.5	2.6	2.5	—	2.8 A01	2.8	
Ethylbenzene	NS	NS	—	0.23	0.037 J	0.059	—	0.31	—	0.15	0.11	—	0.17	0.2	0.23	0.18	—	0.15 A01	0.079	
o-Xylene	NS	NS	—	0.28	0.037 J	0.059	—	0.42	—	0.18	0.13	—	0.21	0.23	0.25	0.21	—	0.16 A01	0.1	
p- & m-Xylenes	NS	NS	—	0.83	0.098	0.16	—	1.1	—	0.5	0.37	—	0.59	0.63	0.69	0.58	—	0.44 A01	0.26	
Tetrachloroethene	0.46	42	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	0.051 J	0.04 J	0.049 J	0.049 J	—	0.14 J,A01	0.12	
Toluene	NS	310	—	1.3	0.19	0.31	—	1.6	—	0.8	0.58	—	1	1.1	0.96	1	—	0.7 A01	0.53	
Total Xylenes	NS	NS	—	1.1	0.13	0.22	—	1.5	—	0.69	0.5	—	0.8	0.86	0.94	0.79	—	0.6 A01	0.36	
trans-1,2-Dichloroethene	NS	83	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.011 U,A01	0.05 U	
trans-1,3-Dichloropropene	NS	NS	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.02 U,A01	0.05 U	
Trichloroethene	NS	NS	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.015 U,A01	0.1 U	
Trichlorofluoromethane	NS	1300	—	1.2	1.2	1.3	—	1.3	—	1.3	1	—	1.4	1.4	1.4	1.4	—	1.5 A01	1.5	
Vinyl chloride	0.0095	100	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.007 U,A01	0.02 U'	

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07 DUP	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07
Lab Sample ID	Cancer SL	Non-Cancer SL	2321441-01	2321442-01	—	2321654-01	2321842-01	2322026-01	2322026-10	—	2322027-01	—	2322159-01	2322303-01	2322387-01	2322386-01	—	2322612-01	2322806-01
Sample Date	µg/m³	µg/m³	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	—	93.42 U	—	—	—	—	87.19 U	—	87.19 U	—	—	—	—	—	87.19 U	—
Carbonyl sulfide	NS	10	—	—	73.71 U'	—	—	—	—	68.798 U'	—	68.798 U'	—	—	—	—	—	68.798 U'	—
Dimethyl disulfide	NS	NS	—	—	115.58 U	—	—	—	—	107.88 U	—	107.88 U	—	—	—	—	—	107.88 U	—
Dimethyl sulfide	NS	NS	—	—	76.23 U	—	—	—	—	71.15 U	—	71.15 U	—	—	—	—	—	71.15 U	—
Ethyl mercaptan	NS	NS	—	—	76.20 U	—	—	—	—	71.12 U	—	71.12 U	—	—	—	—	—	71.12 U	—
Hydrogen sulfide	NS	NS	—	—	41.82 U	—	—	—	—	39.03 U	—	39.03 U	—	—	—	—	—	39.03 U	—
i-Butyl mercaptan	NS	NS	—	—	110.65 U	—	—	—	—	103.27 U	—	103.27 U	—	—	—	—	—	103.27 U	—
i-Propyl mercaptan	NS	NS	—	—	93.45 U	—	—	—	—	87.22 U	—	87.22 U	—	—	—	—	—	87.22 U	—
Methyl mercaptan	NS	NS	—	—	59.03 U	—	—	—	—	55.10 U	—	55.10 U	—	—	—	—	—	55.10 U	—
n-Propyl mercaptan	NS	NS	—	—	93.45 U	—	—	—	—	87.22 U	—	87.22 U	—	—	—	—	—	87.22 U	—
s-Butyl mercaptan	NS	NS	—	—	110.66 U	—	—	—	—	103.29 U	—	103.29 U	—	—	—	—	—	103.29 U	—
t-Butyl mercaptan	NS	NS	—	—	110.66 U	—	—	—	—	103.29 U	—	103.29 U	—	—	—	—	—	103.29 U	—
Tetrahydrothiophene	NS	NS	—	—	108.18 U	—	—	—	—	100.97 U	—	100.97 U	—	—	—	—	—	100.97 U	—
Total Sulfur	NS	NS	—	—	ND	—	—	—	—	ND	—	ND	—	—	—	—	—	ND	—
Unidentified sulfurs	NS	NS	—	—	ND	—	—	—	—	ND	—	ND	—	—	—	—	—	ND	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.52	0.51	—	0.55	0.52	0.47	0.49	—	0.47	—	0.46	0.51	0.51	0.49	—	0.51	0.53
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	0.76 J	0.41 J	—	0.75 J	0.59 J	0.24 J	4.1 J,A01	—	0.079 J	—	0.26 J	0.35 J	0.18 J	0.55 J	—	0.64 J	0.099 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	0.13	0.1 U	—	0.1 U	0.1 U	0.079 J	0.083 J	—	0.064 J	—	0.069 J	0.088 J	0.11	0.1	—	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U
Benzene	0.097	3.1	0.63	0.63	—	0.98	0.74	0.49	0.55	—	0.33	—	0.43	0.74	0.52	0.77	—	0.78	0.26
Benzyl chloride	NS	NS	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	0.51	0.2 U	—	0.2 U	0.2 U	0.44	0.45	—	0.44	—	0.43	0.46	0.47	0.45	—	0.2 U	0.2 U
Chlorobenzene	NS	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
Chloroform	NS	NS	0.23	0.05 U	—	0.05 U	0.05 U	0.098	0.45	—	0.089	—	0.16	0.14	0.11	0.19	—	0.05 U	0.05 U
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	2.4	2.9	—	2.9 A01	2.5	2.1	2.1	—	2.1	—	1.9	2.4	2.3	2.2	—	2.3	2.3
Ethylbenzene	NS	NS	0.25	0.23	—	0.84	0.22	0.079	0.1	—	0.092	—	0.14	0.19	0.083	0.21	—	0.25	0.034 J
o-Xylene	NS	NS	0.3	0.31	—	1	0.25	0.082	0.11	—	0.1	—	0.16	0.21	0.086	0.23	—	0.31	0.034 J
p- & m-Xylenes	NS	NS	0.89	0.81	—	3.1	0.65	0.22	0.29	—	0.42	—	0.46	0.59	0.24	0.65	—	0.88	0.084
Tetrachloroethene	0.46	42	0.047 J	0.1 U	—	0.1 U	0.1 U	0.037 J	0.077 J	—	0.1 U	—	0.1 U	0.041 J	0.1 U	0.046 J	—	0.1 U	0.1 U
Toluene	NS	310	1.5	1.3	—	3.9 A01	1.3	0.56	0.94	—	0.53	—	0.82	1	0.41	1.1	—	1.6	0.17
Total Xylenes	NS	NS	1.2	1.1	—	4.2	0.9	0.31	0.4	—	0.52	—	0.62	0.8	0.33	0.88	—	1.2	0.12
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
Trichloroethene	NS	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	1.3	1.3	—	1.5	1.4	1.1	1.1	—	1.1	—	1	1.2	1.2	1.2	—	1.2	1.2
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUX07	ROUX07	ROUX07	ROUX07 DUP	ROUX07 DUP	ROUX07	ROUX07	ROUX07	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	
Lab Sample ID	Cancer SL	Non-Cancer SL	2323016-01	—	2323015-01	—	2323015-10	23463-18	2323261-01	2323378-01	—	—	2320820-04	2320820-06	2320984-09	2321098-09	—	—	
Sample Date	µg/m³	µg/m³	12/9/2023	12/11/2023	12/11/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	10/31/2023	10/31/2023	11/1/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/6/2023	
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	77.85 U	—	77.85 U	—	77.85 U	—	—	140.13 U	140.13 U	—	—	—	—	—	124.56 U	124.56 U
Carbonyl sulfide	NS	10	—	61.43 U'	—	61.43 U'	—	61.43 U'	—	—	110.57 U'	110.57 U'	—	—	—	—	—	98.28 U'	98.28 U'
Dimethyl disulfide	NS	NS	—	96.32 U	—	96.32 U	—	96.32 U	—	—	173.38 U	173.38 U	—	—	—	—	—	154.11 U	154.11 U
Dimethyl sulfide	NS	NS	—	63.53 U	—	63.53 U	—	63.53 U	—	—	114.35 U	114.35 U	—	—	—	—	—	101.64 U	101.64 U
Ethyl mercaptan	NS	NS	—	63.497 U	—	63.497 U	—	63.497 U	—	—	114.30 U	114.30 U	—	—	—	—	—	101.60 U	101.60 U
Hydrogen sulfide	NS	NS	—	34.85 U	—	34.85 U	—	34.85 U	—	—	62.72 U	62.72 U	—	—	—	—	—	55.75 U	55.75 U
i-Butyl mercaptan	NS	NS	—	92.21 U	—	92.21 U	—	92.21 U	—	—	165.98 U	165.98 U	—	—	—	—	—	147.53 U	147.53 U
i-Propyl mercaptan	NS	NS	—	77.87 U	—	77.87 U	—	77.87 U	—	—	140.17 U	140.17 U	—	—	—	—	—	124.60 U	124.60 U
Methyl mercaptan	NS	NS	—	49.19 U	—	49.19 U	—	49.19 U	—	—	88.55 U	88.55 U	—	—	—	—	—	78.71 U	78.71 U
n-Propyl mercaptan	NS	NS	—	77.87 U	—	77.87 U	—	77.87 U	—	—	140.17 U	140.17 U	—	—	—	—	—	124.60 U	124.60 U
s-Butyl mercaptan	NS	NS	—	92.22 U	—	92.22 U	—	92.22 U	—	—	165.99 U	165.99 U	—	—	—	—	—	147.55 U	147.55 U
t-Butyl mercaptan	NS	NS	—	92.22 U	—	92.22 U	—	92.22 U	—	—	165.99 U	165.99 U	—	—	—	—	—	147.55 U	147.55 U
Tetrahydrothiophene	NS	NS	—	90.15 U	—	90.15 U	—	90.15 U	—	—	162.28 U	162.28 U	—	—	—	—	—	144.25 U	144.25 U
Total Sulfur	NS	NS	—	ND	—	ND	—	ND	—	—	ND	ND	—	—	—	—	—	ND	ND
Unidentified sulfurs	NS	NS	—	ND	—	ND	—	ND	—	—	ND	ND	—	—	—	—	—	ND	ND
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.57	—	0.54	—	0.54	—	0.55	0.44	—	—	0.61	0.59	0.57	0.56	—	—	—
1,1,2-Trichloroethane	NS	NS	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—
1,1-Dichloroethane	1.8	830	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—
1,1-Dichloroethene	NS	73	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—
1,1-Difluoroethane	NS	NS	0.11 J	—	0.57 J	—	0.58 J	—	0.44 J	0.25 J	—	—	5 U	5 U	5 U	5 U	5 U	—	—
1,2-Dibromoethane	0.0047	0.83	0.2 U'	—	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—
1,2-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—
1,2-Dichloroethane	NS	NS	0.086 J	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.084 J	0.085 J	0.081 J	0.081 J	—	—	—
1,3-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—
1,4-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.11 J	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—
Benzene	0.097	3.1	0.26	—	1.1	—	1.2	—	0.44	0.71	—	—	0.23	0.23	0.36	0.39	—	—	—
Benzyl chloride	NS	NS	0.5 U	—	0.5 U	—	0.5 U	—	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—
Carbon tetrachloride	0.47	42	0.55	—	0.2 U	—	0.2 U	—	0.53	0.2 U	—	—	0.56	0.56	0.57	0.59	—	—	—
Chlorobenzene	NS	NS	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—
Chloroform	NS	NS	0.096	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.1	0.23	0.12	0.12	—	—	—
cis-1,2-Dichloroethene	NS	8.3	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—
Dichlorodifluoromethane	NS	NS	2.5	—	2.4	—	2.4	—	2.5	1.9	—	—	2.5	2.5	2.5	2.5	—	—	—
Ethylbenzene	NS	NS	0.05 U	—	0.27	—	0.28	—	0.17	0.14	—	—	0.062	0.077	0.13	0.13	—	—	—
o-Xylene	NS	NS	0.05 U	—	0.29	—	0.31	—	0.18	0.15	—	—	0.081	0.089	0.14	0.14	—	—	—
p- & m-Xylenes	NS	NS	0.052	—	0.84	—	0.9	—	0.52	0.44	—	—	0.23	0.26	0.39	0.39	—	—	—
Tetrachloroethene	0.46	42	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.043 J	0.04 J	—	—	—
Toluene	NS	310	0.17	—	1.5	—	1.5	—	0.87	0.79	—	—	0.36	0.85	0.68	0.65	—	—	—
Total Xylenes	NS	NS	0.052 J	—	1.1	—	1.2	—	0.7	0.59	—	—	0.31	0.35	0.53	0.54	—	—	—
trans-1,2-Dichloroethene	NS	83	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—
trans-1,3-Dichloropropene	NS	NS	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—
Trichloroethene	NS	NS	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—
Trichlorofluoromethane	NS	1300	1.3	—	1.3	—	1.2	—	1.3	1	—	—	1.4	1.4	1.4	1.4	—	—	—
Vinyl chloride	0.0095	100	0.02 U'	—	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01
Lab Sample ID	Cancer SL	Non-Cancer SL	2321097-09	2321097-11	2321318-09	2321441-05	2321441-11	2321442-05	—	2321654-05	2321842-05	2321842-11	2322026-05	2322026-11	—	2322027-05	—	2322159-05
Sample Date	µg/m³	µg/m³	11/7/2023	11/7/2023	11/9/2023	11/10/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/16/2023	11/19/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023
SULFUR - 307.91 (µg/m³)																		
Carbon disulfide	NS	NS	—	—	—	—	—	—	93.42 U	—	—	—	—	—	87.19 U	—	87.19 U	—
Carbonyl sulfide	NS	10	—	—	—	—	—	—	73.71 U'	—	—	—	—	—	68.798 U'	—	68.798 U'	—
Dimethyl disulfide	NS	NS	—	—	—	—	—	—	115.58 U	—	—	—	—	—	107.88 U	—	107.88 U	—
Dimethyl sulfide	NS	NS	—	—	—	—	—	—	76.23 U	—	—	—	—	—	71.15 U	—	71.15 U	—
Ethyl mercaptan	NS	NS	—	—	—	—	—	—	76.20 U	—	—	—	—	—	71.12 U	—	71.12 U	—
Hydrogen sulfide	NS	NS	—	—	—	—	—	—	41.82 U	—	—	—	—	—	39.03 U	—	39.03 U	—
i-Butyl mercaptan	NS	NS	—	—	—	—	—	—	110.65 U	—	—	—	—	—	103.27 U	—	103.27 U	—
i-Propyl mercaptan	NS	NS	—	—	—	—	—	—	93.45 U	—	—	—	—	—	87.22 U	—	87.22 U	—
Methyl mercaptan	NS	NS	—	—	—	—	—	—	59.03 U	—	—	—	—	—	55.10 U	—	55.10 U	—
n-Propyl mercaptan	NS	NS	—	—	—	—	—	—	93.45 U	—	—	—	—	—	87.22 U	—	87.22 U	—
s-Butyl mercaptan	NS	NS	—	—	—	—	—	—	110.66 U	—	—	—	—	—	103.29 U	—	103.29 U	—
t-Butyl mercaptan	NS	NS	—	—	—	—	—	—	110.66 U	—	—	—	—	—	103.29 U	—	103.29 U	—
Tetrahydrothiophene	NS	NS	—	—	—	—	—	—	108.18 U	—	—	—	—	—	100.97 U	—	100.97 U	—
Total Sulfur	NS	NS	—	—	—	—	—	—	ND	—	—	—	—	—	ND	—	ND	—
Unidentified sulfurs	NS	NS	—	—	—	—	—	—	ND	—	—	—	—	—	ND	—	ND	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.59	0.57	0.59	0.54	0.53	0.51	—	0.53	0.54	0.53	0.48	0.48	—	0.48	—	0.46
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
1,1-Difluoroethane	NS	NS	0.3 J	0.63 J	5 U	0.2 J	0.17 J	0.18 J	—	0.28 J	0.32 J	0.33 J	0.19 J	0.22 J	—	5 U	—	0.13 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
1,2-Dichloroethane	NS	NS	0.082 J	0.08 J	0.1	0.13	0.13	0.1 U	—	0.16	0.1 U	0.1 U	0.076 J	0.078 J	—	0.065 J	—	0.066 J
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
1,4-Dichlorobenzene	NS	NS	0.037 J	0.038 J	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
Benzene	0.097	3.1	0.46	0.49	0.18	0.33	0.3	0.45	—	0.64	0.52	0.53	0.54	0.52	—	0.17	—	0.24
Benzyl chloride	NS	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	0.5 U
Carbon tetrachloride	0.47	42	0.61	0.6	0.65	0.52	0.53	0.2 U	—	0.56	0.2 U	0.2 U	0.43	0.45	—	0.44	—	0.42
Chlorobenzene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
Chloroform	NS	NS	0.11	0.12	0.092	0.13	0.13	0.05 U	—	0.14	0.05 U	0.05 U	0.077	0.079	—	0.068	—	0.086
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
Dichlorodifluoromethane	NS	NS	2.7	2.5	2.7	2.5	2.4	2.3	—	2.7	2.7	2.5	2.1	2.2	—	2.2	—	2
Ethylbenzene	NS	NS	0.16	0.19	0.041 J	0.095	0.098	0.12	—	0.21	0.19	0.2	0.062	0.12	—	0.023 J	—	0.075
o-Xylene	NS	NS	0.18	0.23	0.05	0.11	0.11	0.15	—	0.25	0.22	0.25	0.058	0.14	—	0.028 J	—	0.083
p- & m-Xylenes	NS	NS	0.55	0.67	0.15	0.31	0.3	0.4	—	0.66	0.56	0.66	0.16	0.43	—	0.067	—	0.24
Tetrachloroethene	0.46	42	0.1 U	0.1 U	0.12	0.13	0.12	0.1 U	—	0.061 J	0.1 U	0.1 U	0.1 U	0.038 J	—	0.1 U	—	0.038 J
Toluene	NS	310	0.59	0.62	0.22	0.51	0.48	0.72	—	1.1	0.93	0.97	0.33	0.74	—	0.21	—	0.46
Total Xylenes	NS	NS	0.73	0.9	0.2	0.43	0.41	0.54	—	0.91	0.78	0.91	0.22	0.57	—	0.095 J	—	0.32
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
Trichloroethene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
Trichlorofluoromethane	NS	1300	1.5	1.4	1.5	1.3	1.3	1.3	—	1.4	1.4	1.4	1.1	1.1	—	1.1	—	1
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01
Lab Sample ID	Cancer SL	Non-Cancer SL	2322159-09	2322303-05	2322303-11	2322387-05	2322386-05	2322386-10	—	—	2322612-05	2322806-05	2323016-05	—	2323015-05	23463-22	2323261-05	2323261-11	2323378-05
Sample Date	µg/m³	µg/m³	11/28/2023	11/30/2023	11/30/2023	12/1/2023	12/3/2023	12/3/2023	12/5/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/13/2023	12/16/2023
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	—	—	—	—	—	87.19 U	87.19 U	—	—	—	77.85 U	—	77.85 U	—	—	—
Carbonyl sulfide	NS	10	—	—	—	—	—	—	68.798 U'	68.798 U'	—	—	—	61.43 U'	—	61.43 U'	—	—	—
Dimethyl disulfide	NS	NS	—	—	—	—	—	—	107.88 U	107.88 U	—	—	—	96.32 U	—	96.32 U	—	—	—
Dimethyl sulfide	NS	NS	—	—	—	—	—	—	71.15 U	71.15 U	—	—	—	63.53 U	—	63.53 U	—	—	—
Ethyl mercaptan	NS	NS	—	—	—	—	—	—	71.12 U	71.12 U	—	—	—	63.497 U	—	63.497 U	—	—	—
Hydrogen sulfide	NS	NS	—	—	—	—	—	—	39.03 U	39.03 U	—	—	—	34.85 U	—	34.85 U	—	—	—
i-Butyl mercaptan	NS	NS	—	—	—	—	—	—	103.27 U	103.27 U	—	—	—	92.21 U	—	92.21 U	—	—	—
i-Propyl mercaptan	NS	NS	—	—	—	—	—	—	87.22 U	87.22 U	—	—	—	77.87 U	—	77.87 U	—	—	—
Methyl mercaptan	NS	NS	—	—	—	—	—	—	55.10 U	55.10 U	—	—	—	49.19 U	—	49.19 U	—	—	—
n-Propyl mercaptan	NS	NS	—	—	—	—	—	—	87.22 U	87.22 U	—	—	—	77.87 U	—	77.87 U	—	—	—
s-Butyl mercaptan	NS	NS	—	—	—	—	—	—	103.29 U	103.29 U	—	—	—	92.22 U	—	92.22 U	—	—	—
t-Butyl mercaptan	NS	NS	—	—	—	—	—	—	103.29 U	103.29 U	—	—	—	92.22 U	—	92.22 U	—	—	—
Tetrahydrothiophene	NS	NS	—	—	—	—	—	—	100.97 U	100.97 U	—	—	—	90.15 U	—	90.15 U	—	—	—
Total Sulfur	NS	NS	—	—	—	—	—	—	ND	ND	—	—	—	ND	—	ND	—	—	—
Unidentified sulfurs	NS	NS	—	—	—	—	—	—	ND	ND	—	—	—	ND	—	ND	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.46	0.52	0.51	0.5	0.5	0.5	—	—	0.52	0.54	0.55	—	0.56	—	0.56	0.56	0.45
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	0.13 J	0.25 J	0.29 J	0.095 J	0.29 J	0.29 J	—	—	0.15 J	0.1 J	5 U	—	1.3 J	—	0.12 J	0.12 J	0.094 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	0.065 J	0.084 J	0.082 J	0.11	0.094 J	0.095 J	—	—	0.1 U	0.1 U	0.087 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
Benzene	0.097	3.1	0.25	0.46	0.35	0.41	0.49	0.56	—	—	0.28	0.25	0.23	—	0.46	—	0.24	0.24	0.24
Benzyl chloride	NS	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	0.42	0.48	0.47	0.46	0.46	0.46	—	—	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	0.2 U	0.2 U
Chlorobenzene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Chloroform	NS	NS	0.091	0.13	0.11	0.11	0.12	0.11	—	—	0.05 U	0.05 U	0.085	—	0.05 U	—	0.05 U	0.05 U	0.05 U
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	2	2.4	2.4	2.3	2.3	2.3	—	—	2.4	2.5	2.5	—	2.4	—	2.6	2.6	2
Ethylbenzene	NS	NS	0.069	0.083	0.081	0.062	0.14	0.14	—	—	0.079	0.061	0.022 J	—	0.17	—	0.057	0.055	0.092
o-Xylene	NS	NS	0.079	0.096	0.087	0.066	0.16	0.17	—	—	0.094	0.088	0.05 U	—	0.2	—	0.064	0.061	0.11
p- & m-Xylenes	NS	NS	0.23	0.26	0.25	0.17	0.47	0.48	—	—	0.27	0.22	0.044 J	—	0.56	—	0.18	0.18	0.3
Tetrachloroethene	0.46	42	0.086 J	0.084 J	0.096 J	0.06 J	0.086 J	0.078 J	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Toluene	NS	310	0.46	0.51	0.46	0.29	0.76	0.64	—	—	0.44	0.31	0.12	—	0.88	—	0.39	0.31	0.41
Total Xylenes	NS	NS	0.31	0.35	0.34	0.24	0.63	0.65	—	—	0.36	0.31	0.044 J	—	0.77	—	0.24	0.24	0.41
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	1	1.2	1.2	1.2	1.2	1.2	—	—	1.2	1.3	1.3	—	1.3	—	1.3	1.3	1.1
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUXB01 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	
Lab Sample ID	Cancer SL	Non-Cancer SL	2323378-10	—	2320820-05	2320984-10	2320984-11	2321098-10	2321098-11	—	2321097-10	2321318-10	2321318-11	2321441-03	2321442-03	2321442-11	—	2321654-03	
Sample Date	µg/m³	µg/m³	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/3/2023	11/5/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/9/2023	11/10/2023	11/12/2023	11/12/2023	11/14/2023	11/14/2023	
SULFUR - 307.91 (µg/m³)																			
Carbon disulfide	NS	NS	—	140.13 U	—	—	—	—	—	124.56 U	—	—	—	—	—	—	—	93.42 U	
Carbonyl sulfide	NS	10	—	110.57 U'	—	—	—	—	—	98.28 U'	—	—	—	—	—	—	—	73.71 U'	
Dimethyl disulfide	NS	NS	—	173.38 U	—	—	—	—	—	154.11 U	—	—	—	—	—	—	—	115.58 U	
Dimethyl sulfide	NS	NS	—	114.35 U	—	—	—	—	—	101.64 U	—	—	—	—	—	—	—	76.23 U	
Ethyl mercaptan	NS	NS	—	114.30 U	—	—	—	—	—	101.60 U	—	—	—	—	—	—	—	76.20 U	
Hydrogen sulfide	NS	NS	—	62.72 U	—	—	—	—	—	55.75 U	—	—	—	—	—	—	—	41.82 U	
i-Butyl mercaptan	NS	NS	—	165.98 U	—	—	—	—	—	147.53 U	—	—	—	—	—	—	—	110.65 U	
i-Propyl mercaptan	NS	NS	—	140.17 U	—	—	—	—	—	124.60 U	—	—	—	—	—	—	—	93.45 U	
Methyl mercaptan	NS	NS	—	88.55 U	—	—	—	—	—	78.71 U	—	—	—	—	—	—	—	59.03 U	
n-Propyl mercaptan	NS	NS	—	140.17 U	—	—	—	—	—	124.60 U	—	—	—	—	—	—	—	93.45 U	
s-Butyl mercaptan	NS	NS	—	165.99 U	—	—	—	—	—	147.55 U	—	—	—	—	—	—	—	110.66 U	
t-Butyl mercaptan	NS	NS	—	165.99 U	—	—	—	—	—	147.55 U	—	—	—	—	—	—	—	110.66 U	
Tetrahydrothiophene	NS	NS	—	162.28 U	—	—	—	—	—	144.25 U	—	—	—	—	—	—	—	108.18 U	
Total Sulfur	NS	NS	—	ND	—	—	—	—	—	ND	—	—	—	—	—	—	—	ND	
Unidentified sulfurs	NS	NS	—	ND	—	—	—	—	—	ND	—	—	—	—	—	—	—	ND	
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	1000	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.45	—	0.61	0.59	0.58	0.56	0.55	—	0.57	0.6	0.6	0.54	0.53	0.52	—	0.53	
1,1,2-Trichloroethane	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	
1,1-Dichloroethane	1.8	830	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	
1,1-Dichloroethene	NS	73	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	
1,1-Difluoroethane	NS	NS	0.093 J	—	0.87 J	0.6 J	0.62 J	1.8 J	1.9 J	—	0.59 J	5 U	0.44 J	0.57 J	1.2 J	1.3 J	—	1.3 J	
1,2-Dibromoethane	0.0047	0.83	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	
1,2-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	
1,2-Dichloroethane	NS	NS	0.1 U	—	0.085 J	0.089 J	0.089 J	0.09 J	0.091 J	—	0.083 J	0.11	0.11	0.14	0.1 U	0.1 U	—	0.16	
1,3-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	
1,4-Dichlorobenzene	NS	NS	0.2 U	—	0.2 U	0.049 J	0.047 J	0.065 J	0.076 J	—	0.046 J	0.2 U	0.2 U	0.032 J	0.2 U	0.2 U	—	0.05 J	
Benzene	0.097	3.1	0.23	—	0.24	0.48	0.47	0.6	0.61	—	0.72	0.3	0.3	0.51	0.74	0.77	—	0.8	
Benzyl chloride	NS	NS	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	
Carbon tetrachloride	0.47	42	0.2 U	—	0.57	0.58	0.56	0.59	0.59	—	0.6	0.65	0.64	0.52	0.2 U	0.2 U	—	0.57	
Chlorobenzene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	
Chloroform	NS	NS	0.05 U	—	0.1	0.22	0.22	0.27	0.25	—	0.15	0.11	0.15	0.17	0.05 U	0.05 U	—	0.24	
cis-1,2-Dichloroethene	NS	8.3	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	
Dichlorodifluoromethane	NS	NS	2.1	—	2.5	2.5	2.5	2.5	2.5	—	2.6	2.7	2.7	2.4	2.5	2.5	—	2.7	
Ethylbenzene	NS	NS	0.092	—	0.058	0.18	0.18	0.2	0.21	—	0.16	0.11	0.062	0.15	0.16	0.19	—	0.26	
o-Xylene	NS	NS	0.12	—	0.066	0.22	0.21	0.25	0.27	—	0.18	0.2	0.074	0.18	0.18	0.24	—	0.37	
p- & m-Xylenes	NS	NS	0.31	—	0.18	0.63	0.62	0.68	0.71	—	0.52	0.48	0.2	0.49	0.51	0.65	—	0.92	
Tetrachloroethene	0.46	42	0.1 U	—	0.1 U	0.037 J	0.1 U	0.054 J	0.043 J	—	0.036 J	0.053 J	0.036 J	0.1 U	0.1 U	0.1 U	—	0.062 J	
Toluene	NS	310	0.46	—	0.44	0.91	0.94	1.1	1.1	—	0.71	0.73	0.42	0.82	1	1.2	—	1.7	
Total Xylenes	NS	NS	0.43	—	0.25	0.85	0.84	0.94	0.97	—	0.69	0.68	0.27	0.67	0.69	0.89	—	1.3	
trans-1,2-Dichloroethene	NS	83	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	
trans-1,3-Dichloropropene	NS	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	
Trichloroethene	NS	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	
Trichlorofluoromethane	NS	1300	1.1	—	1.4	1.4	1.4	1.4	1.4	—	1.4	1.5	1.5	1.3	1.3	1.3	—	1.4	
Vinyl chloride	0.0095	100	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	

**Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.**

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUXB02 DUP	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02
Lab Sample ID	Cancer SL	Non-Cancer SL	—	2321654-11	2321842-03	2322026-03	—	—	2322027-03	2322027-11	—	—	2322159-03	2322303-03	2322387-03	2322387-11	2322386-03	—
Sample Date	µg/m³	µg/m³	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/20/2023	11/21/2023	11/21/2023	11/27/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/1/2023	12/3/2023	12/5/2023
SULFUR - 307.91 (µg/m³)																		
Carbon disulfide	NS	NS	93.42 U	—	—	—	87.19 U	87.19 U	—	—	87.19 U	87.19 U	—	—	—	—	—	87.19 U
Carbonyl sulfide	NS	10	73.71 U'	—	—	—	68.798 U'	68.798 U'	—	—	68.798 U'	68.798 U'	—	—	—	—	—	68.798 U'
Dimethyl disulfide	NS	NS	115.68 U	—	—	—	107.88 U	107.88 U	—	—	107.88 U	107.88 U	—	—	—	—	—	107.88 U
Dimethyl sulfide	NS	NS	76.23 U	—	—	—	71.15 U	71.15 U	—	—	71.15 U	71.15 U	—	—	—	—	—	71.15 U
Ethyl mercaptan	NS	NS	76.20 U	—	—	—	71.12 U	71.12 U	—	—	71.12 U	71.12 U	—	—	—	—	—	71.12 U
Hydrogen sulfide	NS	NS	41.82 U	—	—	—	39.03 U	39.03 U	—	—	39.03 U	39.03 U	—	—	—	—	—	39.03 U
i-Butyl mercaptan	NS	NS	110.65 U	—	—	—	103.27 U	103.27 U	—	—	103.27 U	103.27 U	—	—	—	—	—	103.27 U
i-Propyl mercaptan	NS	NS	93.45 U	—	—	—	87.22 U	87.22 U	—	—	87.22 U	87.22 U	—	—	—	—	—	87.22 U
Methyl mercaptan	NS	NS	59.03 U	—	—	—	55.10 U	55.10 U	—	—	55.10 U	55.10 U	—	—	—	—	—	55.10 U
n-Propyl mercaptan	NS	NS	93.45 U	—	—	—	87.22 U	87.22 U	—	—	87.22 U	87.22 U	—	—	—	—	—	87.22 U
s-Butyl mercaptan	NS	NS	110.66 U	—	—	—	103.29 U	103.29 U	—	—	103.29 U	103.29 U	—	—	—	—	—	103.29 U
t-Butyl mercaptan	NS	NS	110.66 U	—	—	—	103.29 U	103.29 U	—	—	103.29 U	103.29 U	—	—	—	—	—	103.29 U
Tetrahydrothiophene	NS	NS	108.18 U	—	—	—	100.97 U	100.97 U	—	—	100.97 U	100.97 U	—	—	—	—	—	100.97 U
Total Sulfur	NS	NS	ND	—	—	—	ND	ND	—	—	ND	ND	—	—	—	—	—	ND
Unidentified sulfurs	NS	NS	ND	—	—	—	ND	ND	—	—	ND	ND	—	—	—	—	—	ND
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	NS	1000	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	—	0.53	0.52	0.47	—	—	0.46	0.46	—	—	0.46	0.51	0.49	0.51	0.51	—
1,1,2-Trichloroethane	NS	NS	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1-Dichloroethane	1.8	830	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Dichloroethene	NS	73	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Difluoroethane	NS	NS	—	1.4 J	0.96 J	0.75 J	—	—	0.061 J	0.07 J	—	—	0.056 J	0.059 J	0.13 J	0.18 J	0.29 J	—
1,2-Dibromoethane	0.0047	0.83	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—
1,2-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—
1,2-Dichloroethane	NS	NS	—	0.16	0.1 U	0.081 J	—	—	0.063 J	0.061 J	—	—	0.071 J	0.093 J	0.11	0.1 U	0.097 J	—
1,3-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—
1,4-Dichlorobenzene	NS	NS	—	0.057 J	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—
Benzene	0.097	3.1	—	0.83	0.9	0.48	—	—	0.2	0.18	—	—	0.39	0.75	0.45	0.43	0.54	—
Benzyl chloride	NS	NS	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U,L07	0.5 U,L07	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—
Carbon tetrachloride	0.47	42	—	0.56	0.2 U	0.43	—	—	0.44	0.43	—	—	0.42	0.46	0.46	0.2 U	0.46	—
Chlorobenzene	NS	NS	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
Chloroform	NS	NS	—	0.24	0.05 U	0.1	—	—	0.07	0.066	—	—	0.12	0.18	0.097	0.05 U	0.13	—
cis-1,2-Dichloroethene	NS	8.3	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
Dichlorodifluoromethane	NS	NS	—	2.6	2.6	2.1	—	—	2.1	2	—	—	2	2.4	2.3	2.3	2.3	—
Ethylbenzene	NS	NS	—	0.26	0.22	0.069	—	—	0.045 J	0.025 J	—	—	0.093	0.14	0.061	0.087	0.091	—
o-Xylene	NS	NS	—	0.32	0.23	0.071	—	—	0.051	0.027 J	—	—	0.1	0.16	0.055	0.11	0.098	—
p- & m-Xylenes	NS	NS	—	0.89	0.62	0.19	—	—	0.14	0.068	—	—	0.29	0.47	0.15	0.27	0.28	—
Tetrachloroethene	0.46	42	—	0.061 J	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.038 J	0.1 U	0.1 U	0.1 U	0.1 U	—
Toluene	NS	310	—	1.5	1.4	0.42	—	—	0.4	0.16	—	—	0.54	0.91	0.31	0.44	0.51	—
Total Xylenes	NS	NS	—	1.2	0.86	0.26	—	—	0.19	0.095 J	—	—	0.39	0.62	0.21	0.38	0.38	—
trans-1,2-Dichloroethene	NS	83	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
trans-1,3-Dichloropropene	NS	NS	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
Trichloroethene	NS	NS	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
Trichlorofluoromethane	NS	1300	—	1.4	1.3	1.1	—	—	1.1	1	—	—	1	1.2	1.2	1.2	1.2	—
Vinyl chloride	0.0095	100	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—

Table 4. Sulfur Compound and VOC Results Compared to DTSC Residential Screening Levels
Chiquita Canyon Landfill, Castaic, California.

Sample ID	DTSC Residential Air	DTSC Residential Air	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02
Lab Sample ID	Cancer SL	Non-Cancer SL	2322612-03	2322806-03	2322806-11	2323016-03	2323016-11	—	2323015-03	—	2323015-11	23463-20	23463-28	2323261-03	2323378-03
Sample Date	µg/m³	µg/m³	12/6/2023	12/8/2023	12/8/2023	12/9/2023	12/9/2023	12/11/2023	12/11/2023	12/11/2023	12/11/2023	12/12/2023	12/12/2023	12/13/2023	12/16/2023
SULFUR - 307.91 (µg/m³)															
Carbon disulfide	NS	NS	—	—	—	—	—	77.85 U	—	77.85 U	—	77.85 U	77.85 U	—	—
Carbonyl sulfide	NS	10	—	—	—	—	—	61.43 U'	—	61.43 U'	—	61.43 U'	61.43 U'	—	—
Dimethyl disulfide	NS	NS	—	—	—	—	—	96.32 U	—	96.32 U	—	96.32 U	96.32 U	—	—
Dimethyl sulfide	NS	NS	—	—	—	—	—	63.53 U	—	63.53 U	—	63.53 U	63.53 U	—	—
Ethyl mercaptan	NS	NS	—	—	—	—	—	63.497 U	—	63.497 U	—	63.497 U	63.497 U	—	—
Hydrogen sulfide	NS	NS	—	—	—	—	—	34.85 U	—	34.85 U	—	34.85 U	34.85 U	—	—
i-Butyl mercaptan	NS	NS	—	—	—	—	—	92.21 U	—	92.21 U	—	92.21 U	92.21 U	—	—
i-Propyl mercaptan	NS	NS	—	—	—	—	—	77.87 U	—	77.87 U	—	77.87 U	77.87 U	—	—
Methyl mercaptan	NS	NS	—	—	—	—	—	49.19 U	—	49.19 U	—	49.19 U	49.19 U	—	—
n-Propyl mercaptan	NS	NS	—	—	—	—	—	77.87 U	—	77.87 U	—	77.87 U	77.87 U	—	—
s-Butyl mercaptan	NS	NS	—	—	—	—	—	92.22 U	—	92.22 U	—	92.22 U	92.22 U	—	—
t-Butyl mercaptan	NS	NS	—	—	—	—	—	92.22 U	—	92.22 U	—	92.22 U	92.22 U	—	—
Tetrahydrothiophene	NS	NS	—	—	—	—	—	90.15 U	—	90.15 U	—	90.15 U	90.15 U	—	—
Total Sulfur	NS	NS	—	—	—	—	—	ND	—	ND	—	ND	ND	—	—
Unidentified sulfurs	NS	NS	—	—	—	—	—	ND	—	ND	—	ND	ND	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)															
1,1,1-Trichloroethane	NS	1000	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.51	0.54	0.56	0.56	0.57	—	0.54	—	0.54	—	—	0.56	0.44
1,1,2-Trichloroethane	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,1-Dichloroethane	1.8	830	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
1,1-Dichloroethene	NS	73	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	0.98 J	0.1 J	0.12 J	0.058 J	0.062 J	—	1.5 J	—	1.6 J	—	—	0.12 J	0.31 J
1,2-Dibromoethane	0.0047	0.83	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
1,2-Dichloroethane	NS	NS	0.1 U	0.1 U	0.1 U	0.087 J	0.088 J	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
Benzene	0.097	3.1	0.48	0.24	0.24	0.25	0.31	—	0.98	—	1.1	—	—	0.26	0.34
Benzyl chloride	NS	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	—	0.5 U	0.5 U
Carbon tetrachloride	0.47	42	0.2 U	0.2 U	0.2 U	0.53	0.55	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
Chlorobenzene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Chloroform	NS	NS	0.05 U	0.05 U	0.05 U	0.085	0.093	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
cis-1,2-Dichloroethene	NS	8.3	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	2.3	2.4	2.5	2.6	2.4	—	2.4	—	2.5	—	—	2.5	2
Ethylbenzene	NS	NS	0.15	0.039 J	0.054	0.025 J	0.035 J	—	0.25	—	0.28	—	—	0.046 J	0.062
o-Xylene	NS	NS	0.16	0.034 J	0.069	0.027 J	0.03 J	—	0.27	—	0.3	—	—	0.05	0.068
p- & m-Xylenes	NS	NS	0.49	0.088	0.19	0.063	0.09	—	0.79	—	0.88	—	—	0.14	0.19
Tetrachloroethene	0.46	42	0.1 U	0.1 U	0.1 U	0.1 U	0.16	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Toluene	NS	310	0.87	0.17	0.32	0.19	0.37	—	1.3	—	1.4	—	—	0.28	0.37
Total Xylenes	NS	NS	0.65	0.12	0.26	0.09 J	0.12	—	1.1	—	1.2	—	—	0.19	0.26
trans-1,2-Dichloroethene	NS	83	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
Trichloroethene	NS	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Trichlorofluoromethane	NS	1300	1.2	1.3	1.3	1.3	1.3	—	1.3	—	1.3	—	—	1.3	1
Vinyl chloride	0.0095	100	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	—	0.02 U'	0.02 U'

Notes:

DTSC Residential Air Cancer SL = DTSC Note 3 Residential Air Cancer Screening Level
 DTSC Residential Air Non-Cancer SL = DTSC Note 3 Residential Air Non-Cancer Screening Level
 µg/m³ = Micrograms per cubic meter.

Grey highlighted cells indicates value exceeds the applicable criteria or screening level.

— = Sample not analyzed.

A01 = Detection and quantitation limits are raised due to sample dilution.

ND = Not detected, reporting limit unknown.

NS = No standard currently established.

U = Not detected (value shown is laboratory reporting limit).

U' = Not detected (value shown is reporting limit, which in this case, exceeds the applicable regulatory standard or other criteria referenced herein).

L07 = The Laboratory Control Sample (LCS) recovery is not within laboratory established control limits.

J = Result below the reporting limit but greater than or equal to the method detection limit, and the concentration is an estimated value.

Bold = Detected concentration.

When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total standard is listed for each isomer.

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	Composite	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01 DUP	ROUX01	ROUX01
Lab Sample ID	Sulfur Acute SL	VOC Acute SL	—	2320983-01	2320984-01	2320984-08	2321098-01	—	2321097-01	2321318-01	2321441-09	2321442-09	—	—	2321654-09	2321654-10	2321842-09	2322026-09
Sample Date	ppm	µg/m³	10/31/2023	11/1/2023	11/3/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	1.99E+00	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Carbonyl sulfide	2.68E-01	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Dimethyl disulfide	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Dimethyl sulfide	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Ethyl mercaptan	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Hydrogen sulfide	7.00E-02	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
i-Butyl mercaptan	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
i-Propyl mercaptan	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Methyl mercaptan	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
n-Propyl mercaptan	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
s-Butyl mercaptan	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
t-Butyl mercaptan	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Tetrahydrothiophene	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Total Sulfur	NS	NS	ND	—	—	—	—	ND	—	—	—	—	ND	ND	—	—	—	—
Unidentified sulfurs	NS	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	NS	5.46E+03	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	—	0.62	0.58	0.58	0.58	—	0.57	0.58	0.52	0.54	—	—	0.53	0.54	0.52	0.47
1,1,2-Trichloroethane	NS	1.64E+02	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	—	5 U	5 U	5 U	5 U	—	0.52 J	5 U	0.31 J	0.39 J	—	—	0.48 J	0.48 J	0.39 J	0.11 J
1,2-Dibromoethane	NS	NS	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	1.21E+03	—	0.08 J	0.083 J	0.08 J	0.08 J	—	0.08 J	0.096 J	0.13	0.1 U	—	—	0.16	0.16	0.1 U	0.076 J
1,3-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	1.20E+04	—	0.2 U	0.04 J	0.2 U	0.2 U	—	0.034 J	0.2 U	0.2 U	0.2 U	—	—	0.035 J	0.033 J	0.2 U	0.2 U
Benzene	NS	2.88E+01	—	0.2	0.99	0.96	0.64	—	0.56	0.18	1	1.1	—	—	1.8	1.8	0.54	0.51
Benzyl chloride	NS	2.40E+02	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	NS	1.90E+03	—	0.54	0.58	0.56	0.62	—	0.6	0.62	0.51	0.2 U	—	—	0.55	0.55	0.2 U	0.45
Chlorobenzene	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	NS	4.88E+02	—	0.11	0.11	0.094	0.12	—	0.12	0.083	0.11	0.05 U	—	—	0.13	0.13	0.05 U	0.075
cis-1,2-Dichloroethene	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	NS	—	2.6	2.5	2.6	2.7	—	2.6	2.5	2.5	2.6	—	—	2.7	2.6	2.6	2.1
Ethylbenzene	NS	2.17E+04	—	0.035 J	0.15	0.14	0.12	—	0.12	0.023 J	0.14	0.16	—	—	0.22	0.23	0.15	0.18
o-Xylene	NS	2.20E+04	—	0.038 J	0.13	0.12	0.11	—	0.12	0.028 J	0.14	0.15	—	—	0.18	0.18	0.16	0.05
p- & m-Xylenes	NS	2.20E+04	—	0.11	0.34	0.3	0.27	—	0.33	0.078	0.39	0.38	—	—	0.47	0.48	0.41	0.26
Tetrachloroethene	NS	4.07E+01	—	0.1 U	0.1 U	0.042 J	0.046 J	—	0.035 J	0.1 U	0.1 U	0.1 U	—	—	0.085 J	0.079 J	0.1 U	0.1 U
Toluene	NS	7.54E+03	—	0.36	0.74	0.6	0.62	—	0.56	0.17	0.64	0.66	—	—	0.99	0.92	0.74	0.29
Total Xylenes	NS	8.68E+03	—	0.15	0.47	0.42	0.39	—	0.45	0.11	0.52	0.52	—	—	0.65	0.66	0.57	0.31
trans-1,2-Dichloroethene	NS	1.19E+04	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	NS	—	1.4	1.4	1.4	1.5	—	1.5	1.5	1.3	1.6	—	—	1.4	1.4	1.3	1.1
Vinyl chloride	NS	1.28E+03	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01 DUP	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01
Lab Sample ID	Sulfur Acute SL	—	2322027-09	—	2322159-07	2322303-09	2322387-09	2322386-08	—	2322612-09	2322612-11	2322806-09	2322806-10	2323016-09	—	2323015-09	23463-26	23463-27	2323261-09
Sample Date	ppm	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/6/2023	12/8/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/12/2023	12/13/2023
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	1.99E+00	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Carbonyl sulfide	2.68E-01	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Dimethyl disulfide	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Dimethyl sulfide	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Ethyl mercaptan	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Hydrogen sulfide	7.00E-02	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
i-Butyl mercaptan	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
i-Propyl mercaptan	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Methyl mercaptan	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
n-Propyl mercaptan	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
s-Butyl mercaptan	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
t-Butyl mercaptan	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Tetrahydrothiophene	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
Total Sulfur	NS	ND	—	ND	—	—	—	—	ND	—	—	—	—	—	ND	—	ND	ND	—
Unidentified sulfurs	NS	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.45	—	0.45	0.51	0.49	0.5	—	0.52	0.53	0.54	0.55	0.57	—	0.55	—	—	0.56
1,1,2-Trichloroethane	NS	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
1,1-Dichloroethane	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
1,1-Dichloroethene	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
1,1-Difluoroethane	NS	—	0.059 J	—	0.078 J	0.47 J	0.14 J	0.3 J	—	0.23 J	0.15 J	0.16 J	0.077 J	0.063 J	—	0.29 J	—	—	0.27 J
1,2-Dibromoethane	NS	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	—	0.2 U'
1,2-Dichlorobenzene	NS	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U
1,2-Dichloroethane	NS	—	0.06 J	—	0.061 J	0.085 J	0.11	0.097 J	—	0.1 U	0.1 U	0.1 U	0.1 U	0.087 J	—	0.1 U	—	—	0.1 U
1,3-Dichlorobenzene	NS	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U
1,4-Dichlorobenzene	NS	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U
Benzene	NS	—	0.18	—	0.18	0.72	0.82	1.3	—	0.63	0.3	0.27	0.24	0.23	—	0.69	—	—	0.55
Benzyl chloride	NS	—	0.5 U, L07	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	—	0.5 U
Carbon tetrachloride	NS	—	0.42	—	0.41	0.48	0.46	0.46	—	0.2 U	0.2 U	0.2 U	0.2 U	0.54	—	0.2 U	—	—	0.2 U
Chlorobenzene	NS	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
Chloroform	NS	—	0.064	—	0.067	0.088	0.087	0.094	—	0.05 U	0.05 U	0.05 U	0.05 U	0.082	—	0.05 U	—	—	0.05 U
cis-1,2-Dichloroethene	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
Dichlorodifluoromethane	NS	—	1.9	—	2	2.3	2.3	2.3	—	2.4	2.4	2.5	2.5	2.6	—	2.4	—	—	2.5
Ethylbenzene	NS	—	0.024 J	—	0.027 J	0.11	0.08	0.16	—	0.087	0.094	0.048 J	0.028 J	0.022 J	—	0.14	—	—	0.082
o-Xylene	NS	—	0.027 J	—	0.027 J	0.1	0.061	0.13	—	0.085	0.13	0.043 J	0.031 J	0.05 U	—	0.13	—	—	0.081
p- & m-Xylenes	NS	—	0.065	—	0.073	0.28	0.16	0.34	—	0.24	0.35	0.12	0.073	0.047 J	—	0.37	—	—	0.24
Tetrachloroethene	NS	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
Toluene	NS	—	0.17	—	0.16	0.44	0.29	0.58	—	0.45	0.7	0.28	0.14	0.12	—	0.58	—	—	0.41
Total Xylenes	NS	—	0.092 J	—	0.1	0.38	0.23	0.47	—	0.33	0.48	0.16	0.1	0.047 J	—	0.5	—	—	0.32
trans-1,2-Dichloroethene	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
trans-1,3-Dichloropropene	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U
Trichloroethene	NS	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U
Trichlorofluoromethane	NS	—	1	—	1	1.3	1.2	1.2	—	1.2	1.2	1.3	1.3	1.3	—	1.3	—	—	1.3
Vinyl chloride	NS	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	—	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX01	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02 DUP	ROUX02	ROUX02	ROUX02	ROUX02 DUP	ROUX02	ROUX02	ROUX02	
Lab Sample ID	Sulfur Acute SL	2323378-08	—	2320983-02	2320984-02	2321098-02	—	2321097-02	2321318-02	2321441-07	2321442-07	2321442-10	—	2321654-07	2321842-07	2321842-10	2322026-07	—	2322027-07	
Sample Date	ppm	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	
SULFUR - 307.91 (ppmv)																				
Carbon disulfide	1.99E+00	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Carbonyl sulfide	2.68E-01	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Dimethyl disulfide	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Dimethyl sulfide	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Ethyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Hydrogen sulfide	7.00E-02	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
i-Butyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
i-Propyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Methyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
n-Propyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
s-Butyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
t-Butyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Tetrahydrothiophene	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Total Sulfur	NS	—	ND	—	—	—	—	ND	—	—	—	—	—	ND	—	—	—	—	ND	—
Unidentified sulfurs	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.45	—	0.61	0.59	0.58	—	0.58	0.6	0.53	0.52	0.53	—	0.55	0.52	0.53	0.47	—	0.46	
1,1,2-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1-Dichloroethane	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Difluoroethane	NS	0.067 J	—	0.54 J	0.75 J	0.77 J	—	0.69 J	5 U	0.46 J	0.45 J	0.45 J	—	0.71 J	0.56 J	0.54 J	0.17 J	—	0.13 J	
1,2-Dibromoethane	NS	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U
1,2-Dichloroethane	NS	0.1 U	—	0.083 J	0.089 J	0.087 J	—	0.08 J	0.099 J	0.14	0.1 U	0.1 U	—	0.16	0.1 U	0.1 U	0.078 J	—	0.063 J	
1,3-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U
1,4-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.053 J	0.058 J	—	0.041 J	0.2 U	0.032 J	0.2 U	0.2 U	—	0.053 J	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U
Benzene	NS	0.22	—	0.31	0.52	0.78	—	0.59	0.22	0.76	0.63	0.6	—	1.3	0.64	0.63	0.52	—	0.24	
Benzyl chloride	NS	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U, L07
Carbon tetrachloride	NS	0.2 U	—	0.55	0.59	0.63	—	0.6	0.63	0.52	0.2 U	0.2 U	—	0.58	0.2 U	0.2 U	0.46	—	0.44	
Chlorobenzene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
Chloroform	NS	0.05 U	—	0.098	0.12	0.14	—	0.11	0.09	0.13	0.05 U	0.05 U	—	0.15	0.05 U	0.05 U	0.077	—	0.07	
cis-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
Dichlorodifluoromethane	NS	2	—	2.6	2.5	2.8	—	2.7	2.6	2.4	2.5	2.4	—	2.7	2.5	2.6	2.1	—	2	
Ethylbenzene	NS	0.034 J	—	0.11	0.21	0.24	—	0.17	0.055	0.23	0.28	0.28	—	0.29	0.28	0.24	0.087	—	0.031 J	
o-Xylene	NS	0.033 J	—	0.13	0.24	0.27	—	0.19	0.069	0.28	0.37	0.37	—	0.31	0.33	0.29	0.082	—	0.037 J	
p- & m-Xylenes	NS	0.084	—	0.37	0.69	0.73	—	0.53	0.18	0.79	1	1	—	0.86	0.88	0.77	0.23	—	0.096	
Tetrachloroethene	NS	0.1 U	—	0.1 U	0.047 J	0.049 J	—	0.32	0.056 J	0.043 J	0.1 U	0.1 U	—	0.087 J	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
Toluene	NS	0.16	—	0.82	1.1	1.2	—	0.77	0.31	1.1	1.4	1.6	—	1.6	1.2	1.1	1.1	0.35	—	0.27
Total Xylenes	NS	0.12	—	0.49	0.93	1	—	0.72	0.25	1.1	1.4	1.4	—	1.2	1.2	1.1	0.31	—	0.13	
trans-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
Trichloroethene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
Trichlorofluoromethane	NS	1.1	—	1.4	1.4	1.5	—	1.5	1.5	1.3	1.3	1.3	—	1.5	1.4	1.3	1.1	—	1.1	
Vinyl chloride	NS	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02 DUP	ROUX02	ROUX02 DUP	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX03	ROUX03 DUP	ROUX03	
Lab Sample ID	Sulfur Acute SL	—	2322303-07	2322387-07	2322386-07	—	—	2322612-07	2322612-10	2322806-07	2323016-07	—	2323015-07	23463-24	2323261-07	2323378-07	—	—	2320983-03	
Sample Date	ppm	11/27/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/5/2023	12/6/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	10/31/2023	10/31/2023	11/1/2023	
SULFUR - 307.91 (ppmv)																				
Carbon disulfide	1.99E+00	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Carbonyl sulfide	2.68E-01	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Dimethyl disulfide	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Dimethyl sulfide	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Ethyl mercaptan	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Hydrogen sulfide	7.00E-02	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
i-Butyl mercaptan	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
i-Propyl mercaptan	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Methyl mercaptan	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
n-Propyl mercaptan	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
s-Butyl mercaptan	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
t-Butyl mercaptan	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Tetrahydrothiophene	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
Total Sulfur	NS	ND	—	—	—	ND	ND	—	—	—	—	—	ND	—	ND	—	—	ND	ND	—
Unidentified sulfurs	NS	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.52	0.5	0.5	—	—	0.51	0.52	0.54	0.57	—	0.54	—	0.54	0.44	—	—	0.61	—
1,1,2-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	—
1,1-Dichloroethane	NS	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	—
1,1-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	—
1,1-Difluoroethane	NS	—	0.66 J	0.24 J	0.79 J	—	—	0.48 J	0.5 J	0.32 J	0.065 J	—	0.45 J	—	0.31 J	0.13 J	—	—	0.56 J	—
1,2-Dibromoethane	NS	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	—	—	0.2 U'	—
1,2-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	0.2 U	—
1,2-Dichloroethane	NS	—	0.084 J	0.11	0.1	—	—	0.1 U	0.1 U	0.1 U	0.088 J	—	0.1 U	—	0.1 U	0.1 U	—	—	0.082 J	—
1,3-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	0.2 U	—
1,4-Dichlorobenzene	NS	—	0.13 J	0.084 J	0.2	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	0.2 U	—
Benzene	NS	—	0.68	0.63	1.3	—	—	0.48	0.4	0.27	0.27	—	1	—	0.47	0.31	—	—	0.52	—
Benzyl chloride	NS	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	—	—	0.5 U	—
Carbon tetrachloride	NS	—	0.49	0.47	0.46	—	—	0.2 U	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	0.2 U	—	—	0.55	—
Chlorobenzene	NS	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	—
Chloroform	NS	—	0.093	0.093	0.11	—	—	0.05 U	0.05 U	0.05 U	0.085	—	0.05 U	—	0.05 U	0.05 U	—	—	0.09	—
cis-1,2-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	—
Dichlorodifluoromethane	NS	—	2.4	2.3	2.3	—	—	2.4	2.5	2.5	2.5	—	2.4	—	2.5	2	—	—	2.7	—
Ethylbenzene	NS	—	0.16	0.13	0.35	—	—	0.17	0.16	0.055	0.071	—	0.27	—	0.15	0.11	—	—	0.34	—
o-Xylene	NS	—	0.19	0.15	0.4	—	—	0.21	0.19	0.063	0.083	—	0.29	—	0.18	0.13	—	—	0.56	—
p- & m-Xylenes	NS	—	0.53	0.42	1.2	—	—	0.59	0.57	0.16	0.26	—	0.84	—	0.51	0.37	—	—	1.5	—
Tetrachloroethene	NS	—	0.1 U	0.036 J	0.041 J	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.087 J	—
Toluene	NS	—	0.77	0.63	2	—	—	0.92	0.88	0.24	0.2	—	1.3	—	0.7	0.54	—	—	2.3	—
Total Xylenes	NS	—	0.72	0.57	1.6	—	—	0.8	0.76	0.23	0.35	—	1.1	—	0.69	0.5	—	—	2.1	—
trans-1,2-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	—
trans-1,3-Dichloropropene	NS	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	—
Trichloroethene	NS	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	—
Trichlorofluoromethane	NS	—	1.2	1.2	1.2	—	—	1.2	1.2	1.3	1.3	—	1.3	—	1.3	1	—	—	1.5	—
Vinyl chloride	NS	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	—	—	0.02 U'	—

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03
Lab Sample ID	Sulfur Acute SL	2320983-05	2320984-03	2321098-03	—	2321097-03	2321318-03	2321441-08	2321442-08	—	2321654-08	2321842-08	2322026-08	—	2322027-08	—	2322303-08	2322303-10	2322387-08
Sample Date	ppm	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/30/2023	11/30/2023	12/1/2023
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	1.99E+00	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Carbonyl sulfide	2.68E-01	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Dimethyl disulfide	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Dimethyl sulfide	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Ethyl mercaptan	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Hydrogen sulfide	7.00E-02	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
i-Butyl mercaptan	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
i-Propyl mercaptan	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Methyl mercaptan	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
n-Propyl mercaptan	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
s-Butyl mercaptan	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
t-Butyl mercaptan	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Tetrahydrothiophene	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
Total Sulfur	NS	—	—	—	ND	—	—	—	—	ND	—	—	—	ND	—	ND	—	—	—
Unidentified sulfurs	NS	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.61	0.59	0.58	—	0.56	0.6	0.52	0.52	—	0.54	0.52	0.47	—	0.46	—	0.52	0.52	0.49
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	0.66 J	0.76 J	0.73 J	—	0.56 J	5 U	0.65 J	0.55 J	—	0.59 J	0.57 J	0.19 J	—	0.078 J	—	0.68 J	0.61 J	0.15 J
1,2-Dibromoethane	NS	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	0.088 J	0.089 J	0.087 J	—	0.082 J	0.099 J	0.13	0.1 U	—	0.16	0.1 U	0.077 J	—	0.062 J	—	0.087 J	0.087 J	0.11
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	0.034 J	0.049 J	0.045 J	—	0.041 J	0.2 U	0.2 U	0.2 U	—	0.057 J	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U
Benzene	NS	0.47	0.6	0.64	—	0.47	0.24	0.85	0.97	—	1.3	0.63	0.36	—	0.18	—	0.74	0.72	0.73
Benzyl chloride	NS	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	NS	0.6	0.58	0.63	—	0.59	0.63	0.51	0.2 U	—	0.55	0.2 U	0.46	—	0.43	—	0.48	0.48	0.46
Chlorobenzene	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Chloroform	NS	0.09	0.11	0.13	—	0.1	0.085	0.12	0.05 U	—	0.14	0.05 U	0.094	—	0.066	—	0.11	0.096	0.091
cis-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	2.5	2.5	2.8	—	2.6	2.6	2.4	2.5	—	2.7	2.5	2.1	—	2	—	2.3	2.4	2.3
Ethylbenzene	NS	0.19	0.28	0.24	—	0.17	0.085	0.24	0.24	—	0.38	0.24	0.055	—	0.026 J	—	0.2	0.2	0.12
o-Xylene	NS	0.25	0.35	0.28	—	0.21	0.097	0.28	0.29	—	0.43	0.29	0.053	—	0.028 J	—	0.22	0.22	0.13
p- & m-Xylenes	NS	0.68	1	0.75	—	0.59	0.27	0.79	0.78	—	1.2	0.78	0.13	—	0.074	—	0.64	0.63	0.35
Tetrachloroethene	NS	0.1 U	0.043 J	0.045 J	—	0.1 U	0.11	0.037 J	0.1 U	—	0.085 J	0.1 U	0.092 J	—	0.1 U	—	0.037 J	0.034 J	0.1 U
Toluene	NS	0.93	1.2	1.2	—	0.8	0.44	1.1	1.1	—	1.7	1.2	0.3	—	0.17	—	0.8	0.83	0.43
Total Xylenes	NS	0.93	1.4	1	—	0.8	0.37	1.1	1.1	—	1.6	1.1	0.19	—	0.1	—	0.87	0.86	0.48
trans-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1.5	1.4	1.5	—	1.5	1.5	1.3	1.4	—	1.4	1.3	1.1	—	1	—	1.2	1.2	1.2
Vinyl chloride	NS	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04 DUP	ROUX04	ROUX04 DUP
Lab Sample ID	Sulfur Acute SL	2322612-12	—	2322612-08	2322806-08	2323016-08	2323016-10	—	2323015-08	23463-25	2323261-08	—	2320983-04	2320984-04	2321098-04	—	—	2321097-04	2321097-08	
Sample Date	ppm	12/4/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/6/2023	11/7/2023	11/7/2023	
SULFUR - 307.91 (ppmv)																				
Carbon disulfide	1.99E+00	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Carbonyl sulfide	2.68E-01	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Dimethyl disulfide	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Dimethyl sulfide	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Ethyl mercaptan	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Hydrogen sulfide	7.00E-02	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
i-Butyl mercaptan	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
i-Propyl mercaptan	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Methyl mercaptan	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
n-Propyl mercaptan	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
s-Butyl mercaptan	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
t-Butyl mercaptan	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Tetrahydrothiophene	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
Total Sulfur	NS	—	ND	—	—	—	—	ND	—	ND	—	ND	—	—	—	—	ND	ND	—	—
Unidentified sulfurs	NS	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—	—	—	0.04 U	0.04 U	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.53	—	0.52	0.55	0.57	0.58	—	0.56	—	0.57	—	0.59	0.59	0.58	—	—	0.56	0.57	—
1,1,2-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—
1,1-Dichloroethane	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—
1,1-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—
1,1-Difluoroethane	NS	0.49 J	—	0.77 J	0.22 J	0.054 J	0.055 J	—	0.49 J	—	0.5 J	—	0.61 J	1.2 J	7.3 J,A01	—	—	0.51 J	0.83 J	—
1,2-Dibromoethane	NS	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	—
1,2-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—
1,2-Dichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.088 J	0.087 J	—	0.1 U	—	0.1 U	—	0.088 J	0.092 J	0.094 J	—	—	0.08 J	0.082 J	—
1,3-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—
1,4-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.045 J	0.11 J	0.1 J	—	—	0.063 J	0.051 J	—
Benzene	NS	1.1	—	0.88	0.29	0.24	0.25	—	1	—	0.61	—	0.37	0.67	0.9	—	—	0.57	0.63	—
Benzyl chloride	NS	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	—
Carbon tetrachloride	NS	0.2 U	—	0.2 U	0.2 U	0.55	0.55	—	0.2 U	—	0.2 U	—	0.58	0.59	0.62	—	—	0.59	0.6	—
Chlorobenzene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—
Chloroform	NS	0.05 U	—	0.05 U	0.05 U	0.087	0.086	—	0.05 U	—	0.05 U	—	0.089	0.12	0.57	—	—	0.093	0.099	—
cis-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—
Dichlorodifluoromethane	NS	2.4	—	2.4	2.6	2.5	2.5	—	2.4	—	2.5	—	2.7	2.5	2.7	—	—	2.6	2.6	—
Ethylbenzene	NS	0.25	—	0.28	0.11	0.028 J	0.033 J	—	0.38	—	0.19	—	0.14	0.32	0.34	—	—	0.21	0.18	—
o-Xylene	NS	0.27	—	0.32	0.12	0.023 J	0.027 J	—	0.38	—	0.22	—	0.18	0.38	0.39	—	—	0.23	0.21	—
p- & m-Xylenes	NS	0.8	—	0.96	0.32	0.059	0.068	—	1.3	—	0.61	—	0.52	1.1	1.1	—	—	0.66	0.59	—
Tetrachloroethene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.055 J	0.05 J	—	—	0.1 U	0.1 U	—
Toluene	NS	1.3	—	1.2	0.4	0.13	0.16	—	1.4	—	1.2	—	0.89	1.6	1.6	—	—	0.88	0.89	—
Total Xylenes	NS	1.1	—	1.3	0.44	0.081 J	0.095 J	—	1.6	—	0.82	—	0.7	1.5	1.5	—	—	0.89	0.8	—
trans-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—
trans-1,3-Dichloropropene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—
Trichloroethene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—
Trichlorofluoromethane	NS	1.3	—	1.3	1.3	1.3	1.3	—	1.3	—	1.3	—	1.4	1.4	1.5	—	—	1.4	1.5	—
Vinyl chloride	NS	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	—

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04 DUP	ROUX04	ROUX04	ROUX04	ROUX04
Lab Sample ID	Sulfur Acute SL	2321318-04	2321441-06	2321442-06	—	2321654-06	2321842-06	2322026-06	—	2322027-06	—	2322159-06	2322303-06	2322387-06	2322387-10	2322386-06	—	2322612-06	2322806-06
Sample Date	ppm	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	1.99E+00	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Carbonyl sulfide	2.68E-01	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Dimethyl disulfide	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Dimethyl sulfide	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Ethyl mercaptan	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Hydrogen sulfide	7.00E-02	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
i-Butyl mercaptan	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
i-Propyl mercaptan	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Methyl mercaptan	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
n-Propyl mercaptan	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
s-Butyl mercaptan	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
t-Butyl mercaptan	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Tetrahydrothiophene	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
Total Sulfur	NS	—	—	—	ND	—	—	—	ND	—	ND	—	—	—	—	—	—	ND	—
Unidentified sulfurs	NS	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	—	0.028 U	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.59	0.52	0.52	—	0.54	0.52	0.48	—	0.46	—	0.46	0.52	0.49	0.5	0.5	—	0.51	0.54
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	5 U	0.66 J	0.89 J	—	1.1 J	1.6 J	0.25 J	—	0.16 J	—	0.5 J	0.98 J	0.17 J	0.18 J	0.71 J	—	3.5 J	0.72 J
1,2-Dibromoethane	NS	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	NS	0.097 J	0.14	0.1 U	—	0.17	0.1 U	0.077 J	—	0.065 J	—	0.07 J	0.087 J	0.11	0.11	0.1	—	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	0.2 U	0.071 J	0.2 U	—	0.1 J	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.093 J	0.2 U	0.2 U	0.1 J	—	0.2 U	0.2 U
Benzene	NS	0.23	0.94	0.76	—	1.3	0.71	0.47	—	0.2	—	0.82	0.61	0.72	0.68	1.3	—	1	0.26
Benzyl chloride	NS	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U
Carbon tetrachloride	NS	0.63	0.51	0.2 U	—	0.56	0.2 U	0.44	—	0.43	—	0.43	0.48	0.46	0.47	0.47	—	0.2 U	0.2 U
Chlorobenzene	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
Chloroform	NS	0.09	0.13	0.05 U	—	0.15	0.05 U	0.078	—	0.068	—	0.076	0.093	0.098	0.091	0.12	—	0.05 U	0.05 U
cis-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	NS	2.7	2.4	2.5	—	2.7	2.7	2.1	—	2	—	2	2.4	2.3	2.3	2.3	—	2.4	2.5
Ethylbenzene	NS	0.064	0.37	0.32	—	0.43	0.35	0.07	—	0.041 J	—	0.23	0.17	0.12	0.13	0.31	—	0.3	0.062
o-Xylene	NS	0.077	0.5	0.42	—	0.51	0.43	0.07	—	0.047 J	—	0.24	0.18	0.12	0.13	0.33	—	0.37	0.068
p- & m-Xylenes	NS	0.22	1.4	1.2	—	1.4	1.2	0.19	—	0.13	—	0.71	0.55	0.33	0.35	0.99	—	1.1	0.18
Tetrachloroethene	NS	0.045 J	0.039 J	0.1 U	—	0.083 J	0.1 U	0.1 U	—	0.14	—	0.1 U	0.1 U	0.037 J	0.1 U	0.039 J	—	0.1 U	0.1 U
Toluene	NS	0.36	1.6	1.6	—	2	1.7	0.3	—	0.27	—	1.1	0.84	0.53	0.54	1.7	—	1.8	0.27
Total Xylenes	NS	0.3	1.9	1.6	—	1.9	1.6	0.26	—	0.18	—	0.95	0.74	0.45	0.48	1.3	—	1.5	0.25
trans-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U
Trichloroethene	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	NS	1.5	1.3	1.3	—	1.4	1.4	1.1	—	1	—	1.1	1.2	1.2	1.2	1.2	—	1.2	1.3
Vinyl chloride	NS	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04 DUP	ROUX04	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX05	ROUX05	
Lab Sample ID	Sulfur Acute SL	2323016-06	—	2323015-06	23463-23	2323261-06	2323261-10	2323378-06	—	2320820-01	2320984-05	2321098-05	—	2321097-05	2321318-05	2321441-04	2321441-10	2321442-04	—	
Sample Date	ppm	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/13/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/10/2023	11/12/2023	11/14/2023	
SULFUR - 307.91 (ppmv)																				
Carbon disulfide	1.99E+00	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Carbonyl sulfide	2.68E-01	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Dimethyl disulfide	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Dimethyl sulfide	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Ethyl mercaptan	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Hydrogen sulfide	7.00E-02	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
i-Butyl mercaptan	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
i-Propyl mercaptan	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Methyl mercaptan	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
n-Propyl mercaptan	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
s-Butyl mercaptan	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
t-Butyl mercaptan	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Tetrahydrothiophene	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
Total Sulfur	NS	—	ND	—	ND	—	—	—	ND	—	—	—	ND	—	—	—	—	—	ND	
Unidentified sulfurs	NS	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.57	—	0.54	—	0.56	0.56	0.45	—	0.61	0.57	0.58	—	0.57	0.58	0.53	0.53	0.53	—	
1,1,2-Trichloroethane	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1-Dichloroethane	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Dichloroethene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Difluoroethane	NS	0.066 J	—	0.79 J	—	0.58 J	0.58 J	0.13 J	—	5 U	0.39 J	0.56 J	—	0.48 J	5 U	0.56 J	0.55 J	0.24 J	—	
1,2-Dibromoethane	NS	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—
1,2-Dichlorobenzene	NS	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—
1,2-Dichloroethane	NS	0.092 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.093 J	0.088 J	0.086 J	—	0.088 J	0.1	0.13	0.14	0.1 U	—	
1,3-Dichlorobenzene	NS	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—
1,4-Dichlorobenzene	NS	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.033 J	0.035 J	—	0.044 J	0.2 U	0.2 U	0.038 J	0.2 U	—	
Benzene	NS	0.37	—	1.2	—	0.57	0.57	0.28	—	0.4	0.54	0.59	—	1.3	0.29	0.53	0.52	0.5	—	
Benzyl chloride	NS	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—
Carbon tetrachloride	NS	0.56	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.57	0.57	0.61	—	0.59	0.64	0.52	0.52	0.2 U	—	
Chlorobenzene	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
Chloroform	NS	0.085	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.13	0.13	0.18	—	0.12	0.097	0.18	0.18	0.05 U	—	
cis-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
Dichlorodifluoromethane	NS	2.5	—	2.4	—	2.5	2.5	2.1	—	2.5	2.5	2.8	—	2.8	2.7	2.4	2.5	2.4	—	
Ethylbenzene	NS	0.034 J	—	0.37	—	0.21	0.21	0.079	—	0.3	0.63	0.2	—	0.25	0.14	0.27	0.29	0.27	—	
o-Xylene	NS	0.034 J	—	0.42	—	0.24	0.25	0.088	—	0.33	0.45	0.21	—	0.23	0.19	0.37	0.39	0.33	—	
p- & m-Xylenes	NS	0.092	—	1.2	—	0.69	0.71	0.27	—	1	2	0.59	—	0.7	0.51	0.98	1	0.99	—	
Tetrachloroethene	NS	0.32	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.048 J	0.052 J	0.058 J	—	0.2	0.1 U	0.042 J	0.092 J	0.1 U	—	
Toluene	NS	0.32	—	1.7	—	0.9	1.1	0.44	—	1.1	1	0.8	—	0.78	0.69	1.3	1.3	0.95	—	
Total Xylenes	NS	0.13	—	1.7	—	0.93	0.95	0.35	—	1.4	2.5	0.8	—	0.92	0.7	1.4	1.4	1.3	—	
trans-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
trans-1,3-Dichloropropene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
Trichloroethene	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
Trichlorofluoromethane	NS	1.3	—	1.3	—	1.3	1.3	1.1	—	1.4	1.4	1.5	—	1.4	1.5	1.3	1.3	1.3	—	
Vinyl chloride	NS	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX05	ROUX05 DUP	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05
Lab Sample ID	Sulfur Acute SL	2321654-04	2321842-04	2322026-04	—	—	2322027-04	2322027-10	—	2322159-04	2322303-04	2322387-04	2322386-04	—	2322612-04	2322806-04	2323016-04	—	2323015-04
Sample Date	ppm	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/20/2023	11/21/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	1.99E+00	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Carbonyl sulfide	2.68E-01	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Dimethyl disulfide	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Dimethyl sulfide	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Ethyl mercaptan	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Hydrogen sulfide	7.00E-02	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
i-Butyl mercaptan	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
i-Propyl mercaptan	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Methyl mercaptan	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
n-Propyl mercaptan	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
s-Butyl mercaptan	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
t-Butyl mercaptan	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Tetrahydrothiophene	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
Total Sulfur	NS	—	—	—	ND	ND	—	—	ND	—	—	—	—	ND	—	—	—	—	ND
Unidentified sulfurs	NS	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.52	0.52	0.47	—	—	0.48	0.45	—	0.46	0.5	0.5	0.49	—	0.52	0.54	0.56	—	0.54
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Difluoroethane	NS	0.65 J	0.64 J	0.22 J	—	—	0.091 J	0.087 J	—	0.21 J	0.34 J	0.16 J	0.47 J	—	0.46 J	0.082 J	0.051 J	—	0.32 J
1,2-Dibromoethane	NS	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U
1,2-Dichloroethane	NS	0.16	0.1 U	0.079 J	—	—	0.065 J	0.061 J	—	0.068 J	0.093 J	0.11	0.1	—	0.1 U	0.1 U	0.087 J	—	0.1 U
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U
1,4-Dichlorobenzene	NS	0.044 J	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U
Benzene	NS	1.1	0.81	0.9	—	—	0.2	0.19	—	0.31	1.1	0.39	1.3	—	0.56	0.23	0.24	—	0.87
Benzyl chloride	NS	0.5 U	0.5 U	0.5 U	—	—	0.5 U,L07	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U
Carbon tetrachloride	NS	0.56	0.2 U	0.43	—	—	0.45	0.42	—	0.42	0.47	0.46	0.46	—	0.2 U	0.2 U	0.54	—	0.2 U
Chlorobenzene	NS	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
Chloroform	NS	0.17	0.05 U	0.097	—	—	0.071	0.065	—	0.089	0.1	0.11	0.14	—	0.05 U	0.05 U	0.098	—	0.05 U
cis-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
Dichlorodifluoromethane	NS	2.7	2.7	2.1	—	—	2.1	2	—	1.9	2.4	2.3	2.3	—	2.3	2.4	2.6	—	2.3
Ethylbenzene	NS	0.64	0.23	0.092	—	—	0.092	0.098	—	0.24	0.44	0.081	0.21	—	0.24	0.039 J	0.03 J	—	0.29
o-Xylene	NS	0.55	0.29	0.07	—	—	0.12	0.13	—	0.25	0.56	0.083	0.29	—	0.32	0.039 J	0.042 J	—	0.32
p- & m-Xylenes	NS	2.1	0.71	0.2	—	—	0.31	0.32	—	0.81	1.5	0.22	0.62	—	0.86	0.1	0.071	—	1
Tetrachloroethene	NS	0.091 J	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.037 J	0.046 J	0.038 J	0.089 J	—	0.1 U	0.1 U	0.067 J	—	0.1 U
Toluene	NS	1.4	1.3	0.32	—	—	0.37	0.49	—	0.59	1.9	0.4	1.2	—	1.7	0.16	0.15	—	1.6
Total Xylenes	NS	2.7	1	0.27	—	—	0.43	0.45	—	1.1	2	0.3	0.9	—	1.2	0.14	0.11	—	1.3
trans-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.062	0.05 U	0.05 U	—	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
Trichloroethene	NS	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
Trichlorofluoromethane	NS	1.4	1.4	1.1	—	—	1.1	1	—	1	1.2	1.2	1.2	—	1.2	1.3	1.3	—	1.3
Vinyl chloride	NS	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06 DUP	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06
Lab Sample ID	Sulfur Acute SL	23463-21	2323261-04	2323378-04	2323378-09	—	2320820-02	2320984-06	2321098-06	—	2321097-06	2321318-06	2321318-08	2321441-02	2321442-02	—	2321654-02	2321842-02	2322026-02
Sample Date	ppm	12/12/2023	12/13/2023	12/16/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	1.99E+00	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Carbonyl sulfide	2.68E-01	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Dimethyl disulfide	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Dimethyl sulfide	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Ethyl mercaptan	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Hydrogen sulfide	7.00E-02	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
i-Butyl mercaptan	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
i-Propyl mercaptan	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Methyl mercaptan	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
n-Propyl mercaptan	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
s-Butyl mercaptan	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
t-Butyl mercaptan	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Tetrahydrothiophene	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
Total Sulfur	NS	ND	—	—	—	ND	—	—	—	ND	—	—	—	—	—	—	ND	—	—
Unidentified sulfurs	NS	0.025 U	—	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.54	0.45	0.45	—	0.6	0.57	0.56	—	0.58	0.59	0.58	0.53	0.52	—	0.53	0.52	0.47
1,1,2-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	—	0.35 J	0.15 J	0.16 J	—	5 U	0.86 J	1 J	—	0.48 J	0.6 J	0.5 J	0.6 J	0.45 J	—	0.66 J	2.4 J	0.35 J
1,2-Dibromoethane	NS	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	—	0.1 U	0.1 U	0.1 U	—	0.093 J	0.087 J	0.091 J	—	0.082 J	0.1	0.1	0.13	0.1 U	—	0.1 U	0.1 U	0.079 J
1,3-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	—	0.042 J	0.051 J	0.059 J	—	0.038 J	0.2 U	0.2 U	0.038 J	0.2 U	—	0.2 U	0.2 U	0.2 U
Benzene	NS	—	0.37	0.27	0.28	—	0.45	0.7	0.7	—	0.77	0.3	0.3	0.57	0.65	—	0.7	0.76	0.66
Benzyl chloride	NS	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	NS	—	0.2 U	0.2 U	0.2 U	—	0.56	0.56	0.6	—	0.59	0.64	0.63	0.52	0.2 U	—	0.2 U	0.2 U	0.43
Chlorobenzene	NS	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
Chloroform	NS	—	0.05 U	0.05 U	0.05 U	—	0.14	0.17	0.21	—	0.11	0.14	0.12	0.18	0.05 U	—	0.05 U	0.05 U	0.095
cis-1,2-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	—	2.5	2	2	—	2.5	2.6	2.6	—	2.6	2.7	2.7	2.5	2.7	—	2.7	2.6	2.1
Ethylbenzene	NS	—	0.16	0.088	0.088	—	0.28	0.28	0.28	—	0.2	0.091	0.087	0.29	0.28	—	0.26	0.27	0.11
o-Xylene	NS	—	0.28	0.14	0.13	—	0.44	0.32	0.34	—	0.22	0.13	0.11	0.38	0.36	—	0.3	0.31	0.12
p- & m-Xylenes	NS	—	0.54	0.31	0.31	—	1.2	0.94	0.94	—	0.61	0.34	0.3	1.1	1	—	0.87	0.79	0.33
Tetrachloroethene	NS	—	0.1 U	0.1 U	0.1 U	—	0.05 J	0.045 J	0.05 J	—	0.052 J	0.1 U	0.1 U	0.039 J	0.1 U	—	0.1 U	0.1 U	0.1 U
Toluene	NS	—	0.87	0.46	0.44	—	1.8	1.2	1.3	—	0.79	0.64	0.64	1.3	1.3	—	1.5	1.4	0.53
Total Xylenes	NS	—	0.82	0.45	0.45	—	1.6	1.3	1.3	—	0.83	0.47	0.41	1.5	1.4	—	1.2	1.1	0.45
trans-1,2-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	—	1.3	1	1.1	—	1.4	1.4	1.4	—	1.4	1.5	1.5	1.3	1.3	—	1.4	1.3	1.1
Vinyl chloride	NS	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX06	ROUX06	ROUX06	ROUX06 DUP	ROUX06	ROUX06 DUP	ROUX06	ROUX06	ROUX06	ROUX06 DUP	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06
Lab Sample ID	Sulfur Acute SL	—	2322027-02	—	—	2322159-02	2322159-08	2322303-02	2322387-02	2322386-02	2322386-09	—	2322612-02	2322806-02	2323016-02	—	2323015-02	23463-19	2323261-02
Sample Date	ppm	11/20/2023	11/21/2023	11/27/2023	11/27/2023	11/28/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	1.99E+00	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Carbonyl sulfide	2.68E-01	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Dimethyl disulfide	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Dimethyl sulfide	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Ethyl mercaptan	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Hydrogen sulfide	7.00E-02	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
i-Butyl mercaptan	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
i-Propyl mercaptan	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Methyl mercaptan	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
n-Propyl mercaptan	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
s-Butyl mercaptan	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
t-Butyl mercaptan	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Tetrahydrothiophene	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
Total Sulfur	NS	ND	—	ND	ND	—	—	—	—	—	—	ND	—	—	—	ND	—	ND	—
Unidentified sulfurs	NS	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	NS	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.47	—	—	0.46	0.46	0.5	0.5	0.49	0.49	—	0.52	0.54	0.56	—	0.56	—	0.55
1,1,2-Trichloroethane	NS	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
1,1-Dichloroethane	NS	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
1,1-Dichloroethene	NS	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
1,1-Difluoroethane	NS	—	0.11 J	—	—	0.31 J	0.31 J	0.57 J	0.2 J	0.55 J	0.59 J	—	0.63 J	0.17 J	0.13 J	—	0.65 J	—	0.47 J
1,2-Dibromoethane	NS	—	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'
1,2-Dichlorobenzene	NS	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
1,2-Dichloroethane	NS	—	0.062 J	—	—	0.069 J	0.068 J	0.089 J	0.11	0.1	0.1	—	0.1 U	0.1 U	0.089 J	—	0.1 U	—	0.1 U
1,3-Dichlorobenzene	NS	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
1,4-Dichlorobenzene	NS	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
Benzene	NS	—	0.21	—	—	0.38	0.37	1	0.48	0.94	0.99	—	0.54	0.24	0.3	—	0.92	—	0.46
Benzyl chloride	NS	—	0.5 U, L07	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U
Carbon tetrachloride	NS	—	0.42	—	—	0.42	0.42	0.46	0.46	0.46	0.45	—	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U
Chlorobenzene	NS	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
Chloroform	NS	—	0.093	—	—	0.11	0.11	0.13	0.11	0.16	0.16	—	0.05 U	0.05 U	0.089	—	0.05 U	—	0.05 U
cis-1,2-Dichloroethene	NS	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
Dichlorodifluoromethane	NS	—	2	—	—	2	2	2.4	2.3	2.2	2.2	—	2.2	2.4	2.5	—	2.4	—	2.5
Ethylbenzene	NS	—	0.043 J	—	—	0.13	0.15	0.25	0.093	0.26	0.28	—	0.23	0.037 J	0.059	—	0.31	—	0.15
o-Xylene	NS	—	0.051	—	—	0.15	0.17	0.28	0.099	0.28	0.31	—	0.28	0.037 J	0.059	—	0.42	—	0.18
p- & m-Xylenes	NS	—	0.13	—	—	0.46	0.51	0.84	0.26	0.81	0.89	—	0.83	0.098	0.16	—	1.1	—	0.5
Tetrachloroethene	NS	—	0.049 J	—	—	0.036 J	0.036 J	0.1 U	0.1 U	0.042 J	0.037 J	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
Toluene	NS	—	0.35	—	—	0.78	0.77	1.2	0.42	1.2	1.2	—	1.3	0.19	0.31	—	1.6	—	0.8
Total Xylenes	NS	—	0.18	—	—	0.61	0.67	1.1	0.36	1.1	1.2	—	1.1	0.13	0.22	—	1.5	—	0.69
trans-1,2-Dichloroethene	NS	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
trans-1,3-Dichloropropene	NS	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
Trichloroethene	NS	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
Trichlorofluoromethane	NS	—	1.1	—	—	1	1	1.2	1.2	1.2	1.2	—	1.2	1.2	1.3	—	1.3	—	1.3
Vinyl chloride	NS	—	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX06	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07 DUP	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07 DUP	ROUX07	ROUX07	
Lab Sample ID	Sulfur Acute SL	2323378-02	—	2320820-03	2320984-07	2321098-07	2321098-08	—	2321097-07	2321318-07	2321441-01	2321442-01	—	2321654-01	2321842-01	2322026-01	2322026-10	—	2322027-01	
Sample Date	ppm	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/19/2023	11/20/2023	11/21/2023	
SULFUR - 307.91 (ppmv)																				
Carbon disulfide	1.99E+00	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Carbonyl sulfide	2.68E-01	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Dimethyl disulfide	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Dimethyl sulfide	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Ethyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Hydrogen sulfide	7.00E-02	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
i-Butyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
i-Propyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Methyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
n-Propyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
s-Butyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
t-Butyl mercaptan	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Tetrahydrothiophene	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Total Sulfur	NS	—	ND	—	—	—	—	ND	—	—	—	—	—	ND	—	—	—	—	ND	—
Unidentified sulfurs	NS	—	0.045 U	—	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.0084 U,A01	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.43	—	0.6	0.57	0.58	0.57	—	0.6 A01	0.58	0.52	0.51	—	0.55	0.52	0.47	0.49	—	0.47	—
1,1,2-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.0084 U,A01	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—
1,1-Dichloroethane	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.0063 U,A01	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—
1,1-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.012 U,A01	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—
1,1-Difluoroethane	NS	0.21 J	—	1.8 J	8.1	0.75 J	0.72 J	—	0.43 J,A01	0.28 J	0.76 J	0.41 J	—	0.75 J	0.59 J	0.24 J	4.1 J,A01	—	0.079 J	—
1,2-Dibromoethane	NS	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.021 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—
1,2-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.017 U,A01	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—
1,2-Dichloroethane	NS	0.1 U	—	0.091 J	0.084 J	0.086 J	0.087 J	—	0.085 J,A01	0.1	0.13	0.1 U	—	0.1 U	0.1 U	0.079 J	0.083 J	—	0.064 J	—
1,3-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.024 U,A01	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—
1,4-Dichlorobenzene	NS	0.2 U	—	0.04 J	0.038 J	0.05 J	0.05 J	—	0.024 U,A01	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—
Benzene	NS	0.35	—	0.43	0.64	0.62	0.62	—	0.67 A01	0.31	0.63	0.63	—	0.98	0.74	0.49	0.55	—	0.33	—
Benzyl chloride	NS	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.008 U,A01	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—
Carbon tetrachloride	NS	0.2 U	—	0.57	0.56	0.6	0.59	—	0.62 A01	0.64	0.51	0.2 U	—	0.2 U	0.2 U	0.44	0.45	—	0.44	—
Chlorobenzene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.012 U,A01	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—
Chloroform	NS	0.05 U	—	0.15	0.27	0.17	0.17	—	0.49 A01	0.17	0.23	0.05 U	—	0.05 U	0.05 U	0.098	0.45	—	0.089	—
cis-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.0067 U,A01	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—
Dichlorodifluoromethane	NS	2	—	2.5	2.5	2.6	2.5	—	2.8 A01	2.8	2.4	2.9	—	2.9 A01	2.5	2.1	2.1	—	2.1	—
Ethylbenzene	NS	0.11	—	0.17	0.2	0.23	0.18	—	0.15 A01	0.079	0.25	0.23	—	0.84	0.22	0.079	0.1	—	0.092	—
o-Xylene	NS	0.13	—	0.21	0.23	0.25	0.21	—	0.16 A01	0.1	0.3	0.31	—	1	0.25	0.082	0.11	—	0.1	—
p- & m-Xylenes	NS	0.37	—	0.59	0.63	0.69	0.58	—	0.44 A01	0.26	0.89	0.81	—	3.1	0.65	0.22	0.29	—	0.42	—
Tetrachloroethene	NS	0.1 U	—	0.051 J	0.04 J	0.049 J	0.049 J	—	0.14 J,A01	0.12	0.047 J	0.1 U	—	0.1 U	0.1 U	0.037 J	0.077 J	—	0.1 U	—
Toluene	NS	0.58	—	1	1.1	0.96	1	—	0.7 A01	0.53	1.5	1.3	—	3.9 A01	1.3	0.56	0.94	—	0.53	—
Total Xylenes	NS	0.5	—	0.8	0.86	0.94	0.79	—	0.6 A01	0.36	1.2	1.1	—	4.2	0.9	0.31	0.4	—	0.52	—
trans-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.011 U,A01	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—
trans-1,3-Dichloropropene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.02 U,A01	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—
Trichloroethene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.015 U,A01	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—
Trichlorofluoromethane	NS	1	—	1.4	1.4	1.4	1.4	—	1.5 A01	1.5	1.3	1.3	—	1.5	1.4	1.1	1.1	—	1.1	—
Vinyl chloride	NS	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.007 U,A01	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07 DUP	ROUX07 DUP	ROUX07	ROUX07	ROUX07	ROUXB01	ROUXB01 DUP	
Lab Sample ID	Sulfur Acute SL	—	2322159-01	2322303-01	2322387-01	2322386-01	—	2322612-01	2322806-01	2323016-01	—	2323015-01	—	2323015-10	23463-18	2323261-01	2323378-01	—	—	
Sample Date	ppm	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	10/31/2023	10/31/2023	
SULFUR - 307.91 (ppmv)																				
Carbon disulfide	1.99E+00	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Carbonyl sulfide	2.68E-01	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Dimethyl disulfide	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Dimethyl sulfide	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Ethyl mercaptan	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Hydrogen sulfide	7.00E-02	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
i-Butyl mercaptan	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
i-Propyl mercaptan	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Methyl mercaptan	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
n-Propyl mercaptan	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
s-Butyl mercaptan	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
t-Butyl mercaptan	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Tetrahydrothiophene	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
Total Sulfur	NS	ND	—	—	—	—	ND	—	—	—	—	ND	—	ND	—	ND	—	—	ND	ND
Unidentified sulfurs	NS	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																				
1,1,1-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.46	0.51	0.51	0.49	—	0.51	0.53	0.57	—	0.54	—	0.54	—	0.55	0.44	—	—	—
1,1,2-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	—
1,1-Dichloroethane	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	—
1,1-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	—
1,1-Difluoroethane	NS	—	0.26 J	0.35 J	0.18 J	0.55 J	—	0.64 J	0.099 J	0.11 J	—	0.57 J	—	0.58 J	—	0.44 J	0.25 J	—	—	—
1,2-Dibromoethane	NS	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	—	—	—
1,2-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	—
1,2-Dichloroethane	NS	—	0.069 J	0.088 J	0.11	0.1	—	0.1 U	0.1 U	0.086 J	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	—
1,3-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	—
1,4-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.11 J	—	—	—
Benzene	NS	—	0.43	0.74	0.52	0.77	—	0.78	0.26	0.26	—	1.1	—	1.2	—	0.44	0.71	—	—	—
Benzyl chloride	NS	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	0.5 U	0.5 U	—	—	—
Carbon tetrachloride	NS	—	0.43	0.46	0.47	0.45	—	0.2 U	0.2 U	0.55	—	0.2 U	—	0.2 U	—	0.53	0.2 U	—	—	—
Chlorobenzene	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	—
Chloroform	NS	—	0.16	0.14	0.11	0.19	—	0.05 U	0.05 U	0.096	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	—
cis-1,2-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	—
Dichlorodifluoromethane	NS	—	1.9	2.4	2.3	2.2	—	2.3	2.3	2.5	—	2.4	—	2.4	—	2.5	1.9	—	—	—
Ethylbenzene	NS	—	0.14	0.19	0.083	0.21	—	0.25	0.034 J	0.05 U	—	0.27	—	0.28	—	0.17	0.14	—	—	—
o-Xylene	NS	—	0.16	0.21	0.086	0.23	—	0.31	0.034 J	0.05 U	—	0.29	—	0.31	—	0.18	0.15	—	—	—
p- & m-Xylenes	NS	—	0.46	0.59	0.24	0.65	—	0.88	0.084	0.052	—	0.84	—	0.9	—	0.52	0.44	—	—	—
Tetrachloroethene	NS	—	0.1 U	0.041 J	0.1 U	0.046 J	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	—
Toluene	NS	—	0.82	1	0.41	1.1	—	1.6	0.17	0.17	—	1.5	—	1.5	—	0.87	0.79	—	—	—
Total Xylenes	NS	—	0.62	0.8	0.33	0.88	—	1.2	0.12	0.052 J	—	1.1	—	1.2	—	0.7	0.59	—	—	—
trans-1,2-Dichloroethene	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	—
trans-1,3-Dichloropropene	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	—
Trichloroethene	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	—
Trichlorofluoromethane	NS	—	1	1.2	1.2	1.2	—	1.2	1.2	1.3	—	1.3	—	1.2	—	1.3	1	—	—	—
Vinyl chloride	NS	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	—	—	—

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01
Lab Sample ID	Sulfur Acute SL	2320820-04	2320820-06	2320984-09	2321098-09	—	—	2321097-09	2321097-11	2321318-09	2321441-05	2321441-11	2321442-05	—	2321654-05	2321842-05	2321842-11	2322026-05
Sample Date	ppm	11/1/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/6/2023	11/7/2023	11/7/2023	11/9/2023	11/10/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/16/2023	11/19/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	1.99E+00	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Carbonyl sulfide	2.68E-01	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Dimethyl disulfide	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Dimethyl sulfide	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Ethyl mercaptan	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Hydrogen sulfide	7.00E-02	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
i-Butyl mercaptan	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
i-Propyl mercaptan	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Methyl mercaptan	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
n-Propyl mercaptan	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
s-Butyl mercaptan	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
t-Butyl mercaptan	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Tetrahydrothiophene	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
Total Sulfur	NS	—	—	—	—	ND	ND	—	—	—	—	—	—	—	ND	—	—	—
Unidentified sulfurs	NS	—	—	—	—	0.04 U	0.04 U	—	—	—	—	—	—	—	0.03 U	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.61	0.59	0.57	0.56	—	—	0.59	0.57	0.59	0.54	0.53	0.51	—	0.53	0.54	0.53	0.48
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	5 U	5 U	5 U	5 U	—	—	0.3 J	0.63 J	5 U	0.2 J	0.17 J	0.18 J	—	0.28 J	0.32 J	0.33 J	0.19 J
1,2-Dibromoethane	NS	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	0.084 J	0.085 J	0.081 J	0.081 J	—	—	0.082 J	0.08 J	0.1	0.13	0.13	0.1 U	—	0.16	0.1 U	0.1 U	0.076 J
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.037 J	0.038 J	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	NS	0.23	0.23	0.36	0.39	—	—	0.46	0.49	0.18	0.33	0.3	0.45	—	0.64	0.52	0.53	0.54
Benzyl chloride	NS	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	NS	0.56	0.56	0.57	0.59	—	—	0.61	0.6	0.65	0.52	0.53	0.2 U	—	0.56	0.2 U	0.2 U	0.43
Chlorobenzene	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	NS	0.1	0.23	0.12	0.12	—	—	0.11	0.12	0.092	0.13	0.13	0.05 U	—	0.14	0.05 U	0.05 U	0.077
cis-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	2.5	2.5	2.5	2.5	—	—	2.7	2.5	2.7	2.5	2.4	2.3	—	2.7	2.7	2.5	2.1
Ethylbenzene	NS	0.062	0.077	0.13	0.13	—	—	0.16	0.19	0.041 J	0.095	0.098	0.12	—	0.21	0.19	0.2	0.062
o-Xylene	NS	0.081	0.089	0.14	0.14	—	—	0.18	0.23	0.05	0.11	0.11	0.15	—	0.25	0.22	0.25	0.058
p- & m-Xylenes	NS	0.23	0.26	0.39	0.39	—	—	0.55	0.67	0.15	0.31	0.3	0.4	—	0.66	0.56	0.66	0.16
Tetrachloroethene	NS	0.1 U	0.1 U	0.043 J	0.04 J	—	—	0.1 U	0.1 U	0.12	0.13	0.12	0.1 U	—	0.061 J	0.1 U	0.1 U	0.1 U
Toluene	NS	0.36	0.85	0.68	0.65	—	—	0.59	0.62	0.22	0.51	0.48	0.72	—	1.1	0.93	0.97	0.33
Total Xylenes	NS	0.31	0.35	0.53	0.54	—	—	0.73	0.9	0.2	0.43	0.41	0.54	—	0.91	0.78	0.91	0.22
trans-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1.4	1.4	1.4	1.4	—	—	1.5	1.4	1.5	1.3	1.3	1.3	—	1.4	1.4	1.4	1.1
Vinyl chloride	NS	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01
Lab Sample ID	Sulfur Acute SL	2322026-11	—	2322027-05	—	2322159-05	2322159-09	2322303-05	2322303-11	2322387-05	2322386-05	2322386-10	—	—	2322612-05	2322806-05	2323016-05	—
Sample Date	ppm	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/28/2023	11/30/2023	11/30/2023	12/1/2023	12/3/2023	12/3/2023	12/5/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	1.99E+00	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Carbonyl sulfide	2.68E-01	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Dimethyl disulfide	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Dimethyl sulfide	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Ethyl mercaptan	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Hydrogen sulfide	7.00E-02	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
i-Butyl mercaptan	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
i-Propyl mercaptan	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Methyl mercaptan	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
n-Propyl mercaptan	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
s-Butyl mercaptan	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
t-Butyl mercaptan	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Tetrahydrothiophene	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
Total Sulfur	NS	—	ND	—	ND	—	—	—	—	—	—	—	ND	ND	—	—	—	ND
Unidentified sulfurs	NS	—	0.028 U	—	0.028 U	—	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.48	—	0.48	—	0.46	0.46	0.52	0.51	0.5	0.5	0.5	—	—	0.52	0.54	0.55	—
1,1,2-Trichloroethane	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—
1,1-Dichloroethane	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—
1,1-Dichloroethene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—
1,1-Difluoroethane	NS	0.22 J	—	5 U	—	0.13 J	0.13 J	0.25 J	0.29 J	0.095 J	0.29 J	0.29 J	—	—	0.15 J	0.1 J	5 U	—
1,2-Dibromoethane	NS	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	—
1,2-Dichlorobenzene	NS	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—
1,2-Dichloroethane	NS	0.078 J	—	0.065 J	—	0.066 J	0.065 J	0.084 J	0.082 J	0.11	0.094 J	0.095 J	—	—	0.1 U	0.1 U	0.087 J	—
1,3-Dichlorobenzene	NS	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—
1,4-Dichlorobenzene	NS	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—
Benzene	NS	0.52	—	0.17	—	0.24	0.25	0.46	0.35	0.41	0.49	0.56	—	—	0.28	0.25	0.23	—
Benzyl chloride	NS	0.5 U	—	0.5 U, L07	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	—
Carbon tetrachloride	NS	0.45	—	0.44	—	0.42	0.42	0.48	0.47	0.46	0.46	0.46	—	—	0.2 U	0.2 U	0.54	—
Chlorobenzene	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—
Chloroform	NS	0.079	—	0.068	—	0.086	0.091	0.13	0.11	0.11	0.12	0.11	—	—	0.05 U	0.05 U	0.085	—
cis-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—
Dichlorodifluoromethane	NS	2.2	—	2.2	—	2	2	2.4	2.4	2.3	2.3	2.3	—	—	2.4	2.5	2.5	—
Ethylbenzene	NS	0.12	—	0.023 J	—	0.075	0.069	0.083	0.081	0.062	0.14	0.14	—	—	0.079	0.061	0.022 J	—
o-Xylene	NS	0.14	—	0.028 J	—	0.083	0.079	0.096	0.087	0.066	0.16	0.17	—	—	0.094	0.088	0.05 U	—
p- & m-Xylenes	NS	0.43	—	0.067	—	0.24	0.23	0.26	0.25	0.17	0.47	0.48	—	—	0.27	0.22	0.044 J	—
Tetrachloroethene	NS	0.038 J	—	0.1 U	—	0.038 J	0.086 J	0.084 J	0.096 J	0.06 J	0.086 J	0.078 J	—	—	0.1 U	0.1 U	0.1 U	—
Toluene	NS	0.74	—	0.21	—	0.46	0.46	0.51	0.46	0.29	0.76	0.64	—	—	0.44	0.31	0.12	—
Total Xylenes	NS	0.57	—	0.095 J	—	0.32	0.31	0.35	0.34	0.24	0.63	0.65	—	—	0.36	0.31	0.044 J	—
trans-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—
trans-1,3-Dichloropropene	NS	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—
Trichloroethene	NS	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—
Trichlorofluoromethane	NS	1.1	—	1.1	—	1	1	1.2	1.2	1.2	1.2	1.2	—	—	1.2	1.3	1.3	—
Vinyl chloride	NS	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	—

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02
Lab Sample ID	Sulfur Acute SL	2323015-05	23463-22	2323261-05	2323261-11	2323378-05	2323378-10	—	2320820-05	2320984-10	2320984-11	2321098-10	2321098-11	—	2321097-10	2321318-10	2321318-11	2321441-03
Sample Date	ppm	12/11/2023	12/12/2023	12/13/2023	12/13/2023	12/16/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/3/2023	11/5/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/9/2023	11/10/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	1.99E+00	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Carbonyl sulfide	2.68E-01	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Dimethyl disulfide	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Dimethyl sulfide	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Ethyl mercaptan	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Hydrogen sulfide	7.00E-02	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
i-Butyl mercaptan	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
i-Propyl mercaptan	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Methyl mercaptan	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
n-Propyl mercaptan	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
s-Butyl mercaptan	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
t-Butyl mercaptan	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Tetrahydrothiophene	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
Total Sulfur	NS	—	ND	—	—	—	—	ND	—	—	—	—	—	—	ND	—	—	—
Unidentified sulfurs	NS	—	0.025 U	—	—	—	—	0.045 U	—	—	—	—	—	—	0.04 U	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.56	—	0.56	0.56	0.45	0.45	—	0.61	0.59	0.58	0.56	0.55	—	0.57	0.6	0.6	0.54
1,1,2-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	1.3 J	—	0.12 J	0.12 J	0.094 J	0.093 J	—	0.87 J	0.6 J	0.62 J	1.8 J	1.9 J	—	0.59 J	5 U	0.44 J	0.57 J
1,2-Dibromoethane	NS	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.085 J	0.089 J	0.089 J	0.09 J	0.091 J	—	0.083 J	0.11	0.11	0.14
1,3-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.049 J	0.047 J	0.065 J	0.076 J	—	0.046 J	0.2 U	0.2 U	0.032 J
Benzene	NS	0.46	—	0.24	0.24	0.24	0.23	—	0.24	0.48	0.47	0.6	0.61	—	0.72	0.3	0.3	0.51
Benzyl chloride	NS	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.57	0.58	0.56	0.59	0.59	—	0.6	0.65	0.64	0.52
Chlorobenzene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.1	0.22	0.22	0.27	0.25	—	0.15	0.11	0.15	0.17
cis-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	NS	2.4	—	2.6	2.6	2	2.1	—	2.5	2.5	2.5	2.5	2.5	—	2.6	2.7	2.7	2.4
Ethylbenzene	NS	0.17	—	0.057	0.055	0.092	0.092	—	0.058	0.18	0.18	0.2	0.21	—	0.16	0.11	0.062	0.15
o-Xylene	NS	0.2	—	0.064	0.061	0.11	0.12	—	0.066	0.22	0.21	0.25	0.27	—	0.18	0.2	0.074	0.18
p- & m-Xylenes	NS	0.56	—	0.18	0.18	0.3	0.31	—	0.18	0.63	0.62	0.68	0.71	—	0.52	0.48	0.2	0.49
Tetrachloroethene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.037 J	0.1 U	0.054 J	0.043 J	—	0.036 J	0.053 J	0.036 J	0.1 U
Toluene	NS	0.88	—	0.39	0.31	0.41	0.46	—	0.44	0.91	0.94	1.1	1.1	—	0.71	0.73	0.42	0.82
Total Xylenes	NS	0.77	—	0.24	0.24	0.41	0.43	—	0.25	0.85	0.84	0.94	0.97	—	0.69	0.68	0.27	0.67
trans-1,2-Dichloroethene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	NS	1.3	—	1.3	1.3	1.1	1.1	—	1.4	1.4	1.4	1.4	1.4	—	1.4	1.5	1.5	1.3
Vinyl chloride	NS	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02
Lab Sample ID	Sulfur Acute SL	2321442-03	2321442-11	—	—	2321654-03	2321654-11	2321842-03	2322026-03	—	—	2322027-03	2322027-11	—	—	2322159-03	2322303-03
Sample Date	ppm	11/12/2023	11/12/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/20/2023	11/21/2023	11/21/2023	11/27/2023	11/27/2023	11/28/2023	11/30/2023
SULFUR - 307.91 (ppmv)																	
Carbon disulfide	1.99E+00	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Carbonyl sulfide	2.68E-01	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Dimethyl disulfide	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Dimethyl sulfide	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Ethyl mercaptan	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Hydrogen sulfide	7.00E-02	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
i-Butyl mercaptan	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
i-Propyl mercaptan	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Methyl mercaptan	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
n-Propyl mercaptan	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
s-Butyl mercaptan	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
t-Butyl mercaptan	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Tetrahydrothiophene	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
Total Sulfur	NS	—	—	ND	ND	—	—	—	—	ND	ND	—	—	ND	ND	—	—
Unidentified sulfurs	NS	—	—	0.03 U	0.03 U	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																	
1,1,1-Trichloroethane	NS	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.53	0.52	—	0.53	—	0.53	0.52	0.47	—	—	0.46	0.46	—	—	0.46	0.51
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U
1,1-Dichloroethene	NS	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	1.2 J	1.3 J	—	1.3 J	—	1.4 J	0.96 J	0.75 J	—	—	0.061 J	0.07 J	—	—	0.56 J	0.59 J
1,2-Dibromoethane	NS	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U
1,2-Dichloroethane	NS	0.1 U	0.1 U	—	0.16	—	0.16	0.1 U	0.081 J	—	—	0.063 J	0.061 J	—	—	0.071 J	0.093 J
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	0.2 U	0.2 U	—	0.05 J	—	0.057 J	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U
Benzene	NS	0.74	0.77	—	0.8	—	0.83	0.9	0.48	—	—	0.2	0.18	—	—	0.39	0.75
Benzyl chloride	NS	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U,L07	0.5 U,L07	—	—	0.5 U	0.5 U
Carbon tetrachloride	NS	0.2 U	0.2 U	—	0.57	—	0.56	0.2 U	0.43	—	—	0.44	0.43	—	—	0.42	0.46
Chlorobenzene	NS	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U
Chloroform	NS	0.05 U	0.05 U	—	0.24	—	0.24	0.05 U	0.1	—	—	0.07	0.066	—	—	0.12	0.18
cis-1,2-Dichloroethene	NS	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U
Dichlorodifluoromethane	NS	2.5	2.5	—	2.7	—	2.6	2.6	2.1	—	—	2.1	2	—	—	2	2.4
Ethylbenzene	NS	0.16	0.19	—	0.26	—	0.26	0.22	0.069	—	—	0.045 J	0.025 J	—	—	0.093	0.14
o-Xylene	NS	0.18	0.24	—	0.37	—	0.32	0.23	0.071	—	—	0.051	0.027 J	—	—	0.1	0.16
p- & m-Xylenes	NS	0.51	0.65	—	0.92	—	0.89	0.62	0.19	—	—	0.14	0.068	—	—	0.29	0.47
Tetrachloroethene	NS	0.1 U	0.1 U	—	0.062 J	—	0.061 J	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.038 J	0.1 U
Toluene	NS	1	1.2	—	1.7	—	1.5	1.4	0.42	—	—	0.4	0.16	—	—	0.54	0.91
Total Xylenes	NS	0.69	0.89	—	1.3	—	1.2	0.86	0.26	—	—	0.19	0.095 J	—	—	0.39	0.62
trans-1,2-Dichloroethene	NS	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U
Trichloroethene	NS	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U
Trichlorofluoromethane	NS	1.3	1.3	—	1.4	—	1.4	1.3	1.1	—	—	1.1	1	—	—	1	1.2
Vinyl chloride	NS	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'

**Table 5. Sulfur Compound and VOC Results Compared to Acute Screening Levels
Chiquita Canyon Landfill, Castaic, California**

Sample ID	Composite	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02
Lab Sample ID	Sulfur Acute SL	2322387-03	2322387-11	2322386-03	—	2322612-03	2322806-03	2322806-11	2323016-03	2323016-11	—	2323015-03	—	2323015-11	23463-20	23463-28	2323261-03	2323378-03
Sample Date	ppm	12/1/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/8/2023	12/9/2023	12/9/2023	12/11/2023	12/11/2023	12/11/2023	12/11/2023	12/12/2023	12/12/2023	12/13/2023	12/16/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	1.99E+00	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Carbonyl sulfide	2.68E-01	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Dimethyl disulfide	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Dimethyl sulfide	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Ethyl mercaptan	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Hydrogen sulfide	7.00E-02	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
i-Butyl mercaptan	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
i-Propyl mercaptan	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Methyl mercaptan	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
n-Propyl mercaptan	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
s-Butyl mercaptan	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
t-Butyl mercaptan	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Tetrahydrothiophene	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Total Sulfur	NS	—	—	—	ND	—	—	—	—	—	ND	—	ND	—	ND	ND	—	—
Unidentified sulfurs	NS	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.49	0.51	0.51	—	0.51	0.54	0.56	0.56	0.57	—	0.54	—	0.54	—	—	0.56	0.44
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
1,1-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	0.13 J	0.18 J	0.29 J	—	0.98 J	0.1 J	0.12 J	0.058 J	0.062 J	—	1.5 J	—	1.6 J	—	—	0.12 J	0.31 J
1,2-Dibromoethane	NS	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
1,2-Dichloroethane	NS	0.11	0.1 U	0.097 J	—	0.1 U	0.1 U	0.1 U	0.087 J	0.088 J	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
1,4-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
Benzene	NS	0.45	0.43	0.54	—	0.48	0.24	0.24	0.25	0.31	—	0.98	—	1.1	—	—	0.26	0.34
Benzyl chloride	NS	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	—	0.5 U	0.5 U
Carbon tetrachloride	NS	0.46	0.2 U	0.46	—	0.2 U	0.2 U	0.2 U	0.53	0.55	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
Chlorobenzene	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Chloroform	NS	0.097	0.05 U	0.13	—	0.05 U	0.05 U	0.05 U	0.085	0.093	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
cis-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
Dichlorodifluoromethane	NS	2.3	2.3	2.3	—	2.3	2.4	2.5	2.6	2.4	—	2.4	—	2.5	—	—	2.5	2
Ethylbenzene	NS	0.061	0.087	0.091	—	0.15	0.039 J	0.054	0.025 J	0.035 J	—	0.25	—	0.28	—	—	0.046 J	0.062
o-Xylene	NS	0.055	0.11	0.098	—	0.16	0.034 J	0.069	0.027 J	0.03 J	—	0.27	—	0.3	—	—	0.05	0.068
p- & m-Xylenes	NS	0.15	0.27	0.28	—	0.49	0.088	0.19	0.063	0.09	—	0.79	—	0.88	—	—	0.14	0.19
Tetrachloroethene	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.16	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Toluene	NS	0.31	0.44	0.51	—	0.87	0.17	0.32	0.19	0.37	—	1.3	—	1.4	—	—	0.28	0.37
Total Xylenes	NS	0.21	0.38	0.38	—	0.65	0.12	0.26	0.09 J	0.12	—	1.1	—	1.2	—	—	0.19	0.26
trans-1,2-Dichloroethene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
Trichloroethene	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Trichlorofluoromethane	NS	1.2	1.2	1.2	—	1.2	1.3	1.3	1.3	1.3	—	1.3	—	1.3	—	—	1.3	1
Vinyl chloride	NS	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	—	0.02 U'	0.02 U'

Notes:
 Composite Screening Levels use ATSDR screening levels if available and use OEHHA Acute screening levels if no ATSDR value exists.
 ATSDR = Agency for Toxic Substances and Disease Registry
 OEHHA = Office of Environmental Health Hazard Assessment
 ppmv = parts per million.
 ppmv = parts per million volume.
 µg/m³ = Micrograms per cubic meter.
 Grey highlighted cells indicates value exceeds the applicable criteria or screening level.
 NS = No standard currently established.
Bold = Detected concentration.
 When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total standard is listed for each isomer.
 U= Not detected (value shown is laboratory reporting limit).
 U'= Not detected, laboratory reporting limit exceeds the applicable screening level.
 J= Estimated value.
 A01= Detection and quantitation limits are raised due to sample dilution.
 L07 = The Laboratory Control Sample (LCS) recovery is not within laboratory established control limits.

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID			ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01 DUP	ROUX01	ROUX01
Lab Sample ID			—	2320983-01	2320984-01	2320984-08	2321098-01	—	2321097-01	2321318-01	2321441-09	2321442-09	—	—	2321654-09	2321654-10	2321842-09	2322026-09
Sample Date	AHIA Odor Nuisance Level	CAAQS	10/31/2023	11/1/2023	11/3/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Carbonyl sulfide	2.85E-01	NS	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	0.03 U	—	—	—	—
Dimethyl disulfide	1.45E-03	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
Dimethyl sulfide	6.00E-04	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
Ethyl mercaptan	4.35E-05	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
Hydrogen sulfide	2.00E-04	0.03	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
i-Butyl mercaptan	1.35E-05	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
i-Propyl mercaptan	6.50E-05	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
Methyl mercaptan	2.55E-12	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
n-Propyl mercaptan	6.50E-05	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
s-Butyl mercaptan	1.35E-05	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
t-Butyl mercaptan	1.35E-05	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
Tetrahydrothiophene	1.94E-04	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
Total Sulfur	NS	NS	ND	—	—	—	—	ND	—	—	—	—	ND	ND	—	—	—	—
Unidentified sulfurs	2.55E-12	NS	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	0.03 U'	—	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	—	0.62	0.58	0.58	0.58	—	0.57	0.58	0.52	0.54	—	—	0.53	0.54	0.52	0.47
1,1,2-Trichloroethane	NS	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	NS	—	5 U	5 U	5 U	5 U	—	0.52 J	5 U	0.31 J	0.39 J	—	—	0.48 J	0.48 J	0.39 J	0.11 J
1,2-Dibromoethane	3.84E+05	NS	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	NS	—	0.08 J	0.083 J	0.08 J	0.08 J	—	0.08 J	0.096 J	0.13	0.1 U	—	—	0.16	0.16	0.1 U	0.076 J
1,3-Dichlorobenzene	NS	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	NS	—	0.2 U	0.04 J	0.2 U	0.2 U	—	0.034 J	0.2 U	0.2 U	0.2 U	—	—	0.035 J	0.033 J	0.2 U	0.2 U
Benzene	7.51E+03	NS	—	0.2	0.99	0.96	0.64	—	0.56	0.18	1	1.1	—	—	1.8	1.8	0.54	0.51
Benzyl chloride	1.06E+03	NS	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	NS	—	0.54	0.58	0.56	0.62	—	0.6	0.62	0.51	0.2 U	—	—	0.55	0.55	0.2 U	0.45
Chlorobenzene	2.00E+03	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	2.49E+03	NS	—	0.11	0.11	0.094	0.12	—	0.12	0.083	0.11	0.05 U	—	—	0.13	0.13	0.05 U	0.075
cis-1,2-Dichloroethene	5.49E+06	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	NS	—	2.6	2.5	2.6	2.7	—	2.6	2.5	2.5	2.6	—	—	2.7	2.6	2.6	2.1
Ethylbenzene	4.34E+01	NS	—	0.035 J	0.15	0.14	0.12	—	0.12	0.023 J	0.14	0.16	—	—	0.22	0.23	0.15	0.18
o-Xylene	2.61E+02	NS	—	0.038 J	0.13	0.12	0.11	—	0.12	0.028 J	0.14	0.15	—	—	0.18	0.18	0.16	0.05
p- & m-Xylenes	2.61E+02	NS	—	0.11	0.34	0.3	0.27	—	0.33	0.078	0.39	0.38	—	—	0.47	0.48	0.41	0.26
Tetrachloroethene	2.60E+04	NS	—	0.1 U	0.1 U	0.042 J	0.046 J	—	0.035 J	0.1 U	0.1 U	0.1 U	—	—	0.085 J	0.079 J	0.1 U	0.1 U
Toluene	4.90E+02	NS	—	0.36	0.74	0.6	0.62	—	0.56	0.17	0.64	0.66	—	—	0.99	0.92	0.74	0.29
Total Xylenes	2.61E+02	NS	—	0.15	0.47	0.42	0.39	—	0.45	0.11	0.52	0.52	—	—	0.65	0.66	0.57	0.31
trans-1,2-Dichloroethene	5.49E+06	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	1.34E+04	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	NS	—	1.4	1.4	1.4	1.5	—	1.5	1.5	1.3	1.6	—	—	1.4	1.4	1.3	1.1
Vinyl chloride	2.59E+06	NS	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'

Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California

Sample ID		ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01	ROUX01 DUP	ROUX01	ROUX01 DUP	ROUX01	ROUX01	ROUX01	ROUX01 DUP	
Lab Sample ID		—	2322027-09	—	2322159-07	2322303-09	2322387-09	2322386-08	—	2322612-09	2322612-11	2322806-09	2322806-10	2323016-09	—	2323015-09	23463-26	23463-27
Sample Date	AHIA Odor Nuisance Level	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/6/2023	12/8/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/12/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U
Carbonyl sulfide	2.85E-01	0.028 U	—	0.028 U	—	—	—	—	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	0.025 U
Dimethyl disulfide	1.45E-03	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
Dimethyl sulfide	6.00E-04	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
Ethyl mercaptan	4.35E-05	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
Hydrogen sulfide	2.00E-04	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
i-Butyl mercaptan	1.35E-05	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
i-Propyl mercaptan	6.50E-05	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
Methyl mercaptan	2.55E-12	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
n-Propyl mercaptan	6.50E-05	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
s-Butyl mercaptan	1.35E-05	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
t-Butyl mercaptan	1.35E-05	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
Tetrahydrothiophene	1.94E-04	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
Total Sulfur	NS	ND	—	ND	—	—	—	—	ND	—	—	—	—	—	ND	—	ND	ND
Unidentified sulfurs	2.55E-12	0.028 U'	—	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	0.025 U'
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.45	—	0.45	0.51	0.49	0.5	—	0.52	0.53	0.54	0.55	0.57	—	0.55	—	—
1,1,2-Trichloroethane	NS	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
1,1-Dichloroethane	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
1,1-Dichloroethene	9.91E+05	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
1,1-Difluoroethane	NS	—	0.059 J	—	0.078 J	0.47 J	0.14 J	0.3 J	—	0.23 J	0.15 J	0.16 J	0.077 J	0.063 J	—	0.29 J	—	—
1,2-Dibromoethane	3.84E+05	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	—
1,2-Dichlorobenzene	6.01E+02	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—
1,2-Dichloroethane	8.70E+04	—	0.06 J	—	0.061 J	0.085 J	0.11	0.097 J	—	0.1 U	0.1 U	0.1 U	0.1 U	0.087 J	—	0.1 U	—	—
1,3-Dichlorobenzene	NS	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—
1,4-Dichlorobenzene	3.64E+03	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—
Benzene	7.51E+03	—	0.18	—	0.18	0.72	0.82	1.3	—	0.63	0.3	0.27	0.24	0.23	—	0.69	—	—
Benzyl chloride	1.06E+03	—	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	—
Carbon tetrachloride	5.28E+04	—	0.42	—	0.41	0.48	0.46	0.46	—	0.2 U	0.2 U	0.2 U	0.2 U	0.54	—	0.2 U	—	—
Chlorobenzene	2.00E+03	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
Chloroform	2.49E+03	—	0.064	—	0.067	0.088	0.087	0.094	—	0.05 U	0.05 U	0.05 U	0.05 U	0.082	—	0.05 U	—	—
cis-1,2-Dichloroethene	5.49E+06	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
Dichlorodifluoromethane	4.94E+09	—	1.9	—	2	2.3	2.3	2.3	—	2.4	2.4	2.5	2.5	2.6	—	2.4	—	—
Ethylbenzene	4.34E+01	—	0.024 J	—	0.027 J	0.11	0.08	0.16	—	0.087	0.094	0.048 J	0.028 J	0.022 J	—	0.14	—	—
o-Xylene	2.61E+02	—	0.027 J	—	0.027 J	0.1	0.061	0.13	—	0.085	0.13	0.043 J	0.031 J	0.05 U	—	0.13	—	—
p- & m-Xylenes	2.61E+02	—	0.065	—	0.073	0.28	0.16	0.34	—	0.24	0.35	0.12	0.073	0.047 J	—	0.37	—	—
Tetrachloroethene	2.60E+04	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
Toluene	4.90E+02	—	0.17	—	0.16	0.44	0.29	0.58	—	0.45	0.7	0.28	0.14	0.12	—	0.58	—	—
Total Xylenes	2.61E+02	—	0.092 J	—	0.1	0.38	0.23	0.47	—	0.33	0.48	0.16	0.1	0.047 J	—	0.5	—	—
trans-1,2-Dichloroethene	5.49E+06	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
trans-1,3-Dichloropropene	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—
Trichloroethene	1.34E+04	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—
Trichlorofluoromethane	1.40E+05	—	1	—	1	1.3	1.2	1.2	—	1.2	1.2	1.3	1.3	1.3	—	1.3	—	—
Vinyl chloride	2.59E+06	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	—

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID		ROUX01	ROUX01	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02
Lab Sample ID		2323261-09	2323378-08	—	2320983-02	2320984-02	2321098-02	—	2321097-02	2321318-02	2321441-07	2321442-07	2321442-10	—	2321654-07	2321842-07	2321842-10	2322026-07	
Sample Date	AHIA Odor Nuisance Level	12/13/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/16/2023	11/19/2023	
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	8.00E-02	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	—
Carbonyl sulfide	2.85E-01	—	—	0.045 U	—	—	—	0.04 U	—	—	—	—	—	0.03 U	—	—	—	—	—
Dimethyl disulfide	1.45E-03	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
Dimethyl sulfide	6.00E-04	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
Ethyl mercaptan	4.35E-05	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
Hydrogen sulfide	2.00E-04	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
i-Butyl mercaptan	1.35E-05	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
i-Propyl mercaptan	6.50E-05	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
Methyl mercaptan	2.55E-12	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
n-Propyl mercaptan	6.50E-05	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
s-Butyl mercaptan	1.35E-05	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
t-Butyl mercaptan	1.35E-05	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
Tetrahydrothiophene	1.94E-04	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
Total Sulfur	NS	—	—	ND	—	—	—	ND	—	—	—	—	—	ND	—	—	—	—	—
Unidentified sulfurs	2.55E-12	—	—	0.045 U'	—	—	—	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.56	0.45	—	0.61	0.59	0.58	—	0.58	0.6	0.53	0.52	0.53	—	0.55	0.52	0.53	0.47	
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	0.27 J	0.067 J	—	0.54 J	0.75 J	0.77 J	—	0.69 J	5 U	0.46 J	0.45 J	0.45 J	—	0.71 J	0.56 J	0.54 J	0.17 J	
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	0.1 U	0.1 U	—	0.083 J	0.089 J	0.087 J	—	0.08 J	0.099 J	0.14	0.1 U	0.1 U	—	0.16	0.1 U	0.1 U	0.078 J	
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	—	0.2 U	0.053 J	0.058 J	—	0.041 J	0.2 U	0.032 J	0.2 U	0.2 U	—	0.053 J	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	7.51E+03	0.55	0.22	—	0.31	0.52	0.78	—	0.59	0.22	0.76	0.63	0.6	—	1.3	0.64	0.63	0.52	
Benzyl chloride	1.06E+03	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	0.2 U	0.2 U	—	0.55	0.59	0.63	—	0.6	0.63	0.52	0.2 U	0.2 U	—	0.58	0.2 U	0.2 U	0.2 U	0.46
Chlorobenzene	2.00E+03	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	2.49E+03	0.05 U	0.05 U	—	0.098	0.12	0.14	—	0.11	0.09	0.13	0.05 U	0.05 U	—	0.15	0.05 U	0.05 U	0.077	
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	2.5	2	—	2.6	2.5	2.8	—	2.7	2.6	2.4	2.5	2.4	—	2.7	2.5	2.6	2.1	
Ethylbenzene	4.34E+01	0.082	0.034 J	—	0.11	0.21	0.24	—	0.17	0.055	0.23	0.28	0.28	—	0.29	0.28	0.24	0.087	
o-Xylene	2.61E+02	0.081	0.033 J	—	0.13	0.24	0.27	—	0.19	0.069	0.28	0.37	0.37	—	0.31	0.33	0.29	0.082	
p- & m-Xylenes	2.61E+02	0.24	0.084	—	0.37	0.69	0.73	—	0.53	0.18	0.79	1	1	—	0.86	0.88	0.77	0.23	
Tetrachloroethene	2.60E+04	0.1 U	0.1 U	—	0.1 U	0.047 J	0.049 J	—	0.32	0.056 J	0.043 J	0.1 U	0.1 U	—	0.087 J	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	4.90E+02	0.41	0.16	—	0.82	1.1	1.2	—	0.77	0.31	1.1	1.4	1.6	—	1.6	1.2	1.1	0.35	
Total Xylenes	2.61E+02	0.32	0.12	—	0.49	0.93	1	—	0.72	0.25	1.1	1.4	1.4	—	1.2	1.2	1.1	0.31	
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	1.34E+04	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	1.3	1.1	—	1.4	1.4	1.5	—	1.5	1.5	1.3	1.3	1.3	—	1.5	1.4	1.3	1.1	
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'

Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California

Sample ID	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02 DUP	ROUX02	ROUX02 DUP	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02	ROUX02
Lab Sample ID	—	2322027-07	—	2322303-07	2322387-07	2322386-07	—	—	—	2322612-07	2322612-10	2322806-07	2323016-07	—	2323015-07	23463-24	2323261-07	2323378-07
Sample Date	AHIA Odor Nuisance Level	11/20/2023	11/21/2023	11/27/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/5/2023	12/6/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	0.028 U	—	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	—
Carbonyl sulfide	2.85E-01	0.028 U	—	0.028 U	—	—	—	0.028 U	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	—
Dimethyl disulfide	1.45E-03	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
Dimethyl sulfide	6.00E-04	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
Ethyl mercaptan	4.35E-05	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
Hydrogen sulfide	2.00E-04	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
i-Butyl mercaptan	1.35E-05	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
i-Propyl mercaptan	6.50E-05	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
Methyl mercaptan	2.55E-12	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
n-Propyl mercaptan	6.50E-05	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
s-Butyl mercaptan	1.35E-05	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
t-Butyl mercaptan	1.35E-05	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
Tetrahydrothiophene	1.94E-04	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
Total Sulfur	NS	ND	—	ND	—	—	—	ND	ND	—	—	—	—	ND	—	ND	—	—
Unidentified sulfurs	2.55E-12	0.028 U'	—	0.028 U'	—	—	—	0.028 U'	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.46	—	0.52	0.5	0.5	—	—	0.51	0.52	0.54	0.57	—	0.54	—	0.54	0.44
1,1,2-Trichloroethane	NS	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	—	0.13 J	—	0.66 J	0.24 J	0.79 J	—	—	0.48 J	0.5 J	0.32 J	0.065 J	—	0.45 J	—	0.31 J	0.13 J
1,2-Dibromoethane	3.84E+05	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	—	0.063 J	—	0.084 J	0.11	0.1	—	—	0.1 U	0.1 U	0.1 U	0.088 J	—	0.1 U	—	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	—	0.2 U	—	0.13 J	0.084 J	0.2	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
Benzene	7.51E+03	—	0.24	—	0.68	0.63	1.3	—	—	0.48	0.4	0.27	0.27	—	1	—	0.47	0.31
Benzyl chloride	1.06E+03	—	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	—	0.44	—	0.49	0.47	0.46	—	—	0.2 U	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	0.2 U
Chlorobenzene	2.00E+03	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Chloroform	2.49E+03	—	0.07	—	0.093	0.093	0.11	—	—	0.05 U	0.05 U	0.05 U	0.085	—	0.05 U	—	0.05 U	0.05 U
cis-1,2-Dichloroethene	5.49E+06	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	—	2	—	2.4	2.3	2.3	—	—	2.4	2.5	2.5	2.5	—	2.4	—	2.5	2
Ethylbenzene	4.34E+01	—	0.031 J	—	0.16	0.13	0.35	—	—	0.17	0.16	0.055	0.071	—	0.27	—	0.15	0.11
o-Xylene	2.61E+02	—	0.037 J	—	0.19	0.15	0.4	—	—	0.21	0.19	0.063	0.083	—	0.29	—	0.18	0.13
p- & m-Xylenes	2.61E+02	—	0.096	—	0.53	0.42	1.2	—	—	0.59	0.57	0.16	0.26	—	0.84	—	0.51	0.37
Tetrachloroethene	2.60E+04	—	0.1 U	—	0.1 U	0.036 J	0.041 J	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Toluene	4.90E+02	—	0.27	—	0.77	0.63	2	—	—	0.92	0.88	0.24	0.2	—	1.3	—	0.7	0.54
Total Xylenes	2.61E+02	—	0.13	—	0.72	0.57	1.6	—	—	0.8	0.76	0.23	0.35	—	1.1	—	0.69	0.5
trans-1,2-Dichloroethene	5.49E+06	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Trichloroethene	1.34E+04	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	—	1.1	—	1.2	1.2	1.2	—	—	1.2	1.2	1.3	1.3	—	1.3	—	1.3	1
Vinyl chloride	2.59E+06	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID	ROUX03	ROUX03 DUP	ROUX03	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	
Lab Sample ID	—	—	2320983-03	2320983-05	2320984-03	2321098-03	—	2321097-03	2321318-03	2321441-08	2321442-08	—	2321654-08	2321842-08	2322026-08	—	2322027-08	—	
Sample Date	AHIA Odor Nuisance Level	10/31/2023	10/31/2023	11/1/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	8.00E-02	0.045 U	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Carbonyl sulfide	2.85E-01	0.045 U	0.045 U	—	—	—	—	0.04 U	—	—	—	—	0.03 U	—	—	—	—	0.028 U	—
Dimethyl disulfide	1.45E-03	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
Dimethyl sulfide	6.00E-04	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
Ethyl mercaptan	4.35E-05	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
Hydrogen sulfide	2.00E-04	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
i-Butyl mercaptan	1.35E-05	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
i-Propyl mercaptan	6.50E-05	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
Methyl mercaptan	2.55E-12	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
n-Propyl mercaptan	6.50E-05	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
s-Butyl mercaptan	1.35E-05	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
t-Butyl mercaptan	1.35E-05	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
Tetrahydrothiophene	1.94E-04	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
Total Sulfur	NS	ND	ND	—	—	—	—	ND	—	—	—	—	ND	—	—	—	—	ND	—
Unidentified sulfurs	2.55E-12	0.045 U'	0.045 U'	—	—	—	—	0.04 U'	—	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	2.65E+04	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	—	0.61	0.61	0.59	0.58	—	0.56	0.6	0.52	0.52	—	0.54	0.52	0.47	—	0.46	—
1,1,2-Trichloroethane	NS	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—
1,1-Dichloroethane	NS	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—
1,1-Dichloroethene	9.91E+05	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—
1,1-Difluoroethane	NS	—	—	0.56 J	0.66 J	0.76 J	0.73 J	—	0.56 J	5 U	0.65 J	0.55 J	—	0.59 J	0.57 J	0.19 J	—	0.078 J	—
1,2-Dibromoethane	3.84E+05	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—
1,2-Dichlorobenzene	6.01E+02	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—
1,2-Dichloroethane	8.70E+04	—	—	0.082 J	0.088 J	0.089 J	0.087 J	—	0.082 J	0.099 J	0.13	0.1 U	—	0.16	0.1 U	0.077 J	—	0.062 J	—
1,3-Dichlorobenzene	NS	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—
1,4-Dichlorobenzene	3.64E+03	—	—	0.2 U	0.034 J	0.049 J	0.045 J	—	0.041 J	0.2 U	0.2 U	0.2 U	—	0.057 J	0.2 U	0.2 U	—	0.2 U	—
Benzene	7.51E+03	—	—	0.52	0.47	0.6	0.64	—	0.47	0.24	0.85	0.97	—	1.3	0.63	0.36	—	0.18	—
Benzyl chloride	1.06E+03	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.07
Carbon tetrachloride	5.28E+04	—	—	0.55	0.6	0.58	0.63	—	0.59	0.63	0.51	0.2 U	—	0.55	0.2 U	0.46	—	0.43	—
Chlorobenzene	2.00E+03	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—
Chloroform	2.49E+03	—	—	0.09	0.09	0.11	0.13	—	0.1	0.085	0.12	0.05 U	—	0.14	0.05 U	0.094	—	0.066	—
cis-1,2-Dichloroethene	5.49E+06	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—
Dichlorodifluoromethane	4.94E+09	—	—	2.7	2.5	2.5	2.8	—	2.6	2.6	2.4	2.5	—	2.7	2.5	2.1	—	2	—
Ethylbenzene	4.34E+01	—	—	0.34	0.19	0.28	0.24	—	0.17	0.085	0.24	0.24	—	0.38	0.24	0.055	—	0.026 J	—
o-Xylene	2.61E+02	—	—	0.56	0.25	0.35	0.28	—	0.21	0.097	0.28	0.29	—	0.43	0.29	0.053	—	0.028 J	—
p- & m-Xylenes	2.61E+02	—	—	1.5	0.68	1	0.75	—	0.59	0.27	0.79	0.78	—	1.2	0.78	0.13	—	0.074	—
Tetrachloroethene	2.60E+04	—	—	0.087 J	0.1 U	0.043 J	0.045 J	—	0.1 U	0.11	0.037 J	0.1 U	—	0.085 J	0.1 U	0.092 J	—	0.1 U	—
Toluene	4.90E+02	—	—	2.3	0.93	1.2	1.2	—	0.8	0.44	1.1	1.1	—	1.7	1.2	0.3	—	0.17	—
Total Xylenes	2.61E+02	—	—	2.1	0.93	1.4	1	—	0.8	0.37	1.1	1.1	—	1.6	1.1	0.19	—	0.1	—
trans-1,2-Dichloroethene	5.49E+06	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—
trans-1,3-Dichloropropene	NS	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—
Trichloroethene	1.34E+04	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—
Trichlorofluoromethane	1.40E+05	—	—	1.5	1.5	1.4	1.5	—	1.5	1.5	1.3	1.4	—	1.4	1.3	1.1	—	1	—
Vinyl chloride	2.59E+06	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—

Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California

Sample ID		ROUX03	ROUX03	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03	ROUX03 DUP	ROUX03	ROUX03	ROUX03	ROUX03	ROUX04	ROUX04	ROUX04
Lab Sample ID		—	2322303-08	2322303-10	2322387-08	2322612-12	—	2322612-08	2322806-08	2323016-08	2323016-10	—	2323015-08	23463-25	2323261-08	—	2320983-04	2320984-04
Sample Date	AHIA Odor Nuisance Level	11/27/2023	11/30/2023	11/30/2023	12/1/2023	12/4/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	10/31/2023	11/1/2023	11/3/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—
Carbonyl sulfide	2.85E-01	0.028 U	—	—	—	—	0.028 U	—	—	—	—	0.025 U	—	0.025 U	—	0.045 U	—	—
Dimethyl disulfide	1.45E-03	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
Dimethyl sulfide	6.00E-04	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
Ethyl mercaptan	4.35E-05	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
Hydrogen sulfide	2.00E-04	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
i-Butyl mercaptan	1.35E-05	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
i-Propyl mercaptan	6.50E-05	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
Methyl mercaptan	2.55E-12	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
n-Propyl mercaptan	6.50E-05	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
s-Butyl mercaptan	1.35E-05	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
t-Butyl mercaptan	1.35E-05	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
Tetrahydrothiophene	1.94E-04	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
Total Sulfur	NS	ND	—	—	—	—	ND	—	—	—	—	ND	—	ND	—	ND	—	—
Unidentified sulfurs	2.55E-12	0.028 U'	—	—	—	—	0.028 U'	—	—	—	—	0.025 U'	—	0.025 U'	—	0.045 U'	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.52	0.52	0.49	0.53	—	0.52	0.55	0.57	0.58	—	0.56	—	0.57	—	0.59	0.59
1,1,2-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	—	0.68 J	0.61 J	0.15 J	0.49 J	—	0.77 J	0.22 J	0.054 J	0.055 J	—	0.49 J	—	0.5 J	—	0.61 J	1.2 J
1,2-Dibromoethane	3.84E+05	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	—	0.087 J	0.087 J	0.11	0.1 U	—	0.1 U	0.1 U	0.088 J	0.087 J	—	0.1 U	—	0.1 U	—	0.088 J	0.092 J
1,3-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.045 J	0.11 J
Benzene	7.51E+03	—	0.74	0.72	0.73	1.1	—	0.88	0.29	0.24	0.25	—	1	—	0.61	—	0.37	0.67
Benzyl chloride	1.06E+03	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	—	0.48	0.48	0.46	0.2 U	—	0.2 U	0.2 U	0.55	0.55	—	0.2 U	—	0.2 U	—	0.58	0.59
Chlorobenzene	2.00E+03	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Chloroform	2.49E+03	—	0.11	0.096	0.091	0.05 U	—	0.05 U	0.05 U	0.087	0.086	—	0.05 U	—	0.05 U	—	0.089	0.12
cis-1,2-Dichloroethene	5.49E+06	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	—	2.3	2.4	2.3	2.4	—	2.4	2.6	2.5	2.5	—	2.4	—	2.5	—	2.7	2.5
Ethylbenzene	4.34E+01	—	0.2	0.2	0.12	0.25	—	0.28	0.11	0.028 J	0.033 J	—	0.38	—	0.19	—	0.14	0.32
o-Xylene	2.61E+02	—	0.22	0.22	0.13	0.27	—	0.32	0.12	0.023 J	0.027 J	—	0.38	—	0.22	—	0.18	0.38
p- & m-Xylenes	2.61E+02	—	0.64	0.63	0.35	0.8	—	0.96	0.32	0.059	0.068	—	1.3	—	0.61	—	0.52	1.1
Tetrachloroethene	2.60E+04	—	0.037 J	0.034 J	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.055 J
Toluene	4.90E+02	—	0.8	0.83	0.43	1.3	—	1.2	0.4	0.13	0.16	—	1.4	—	1.2	—	0.89	1.6
Total Xylenes	2.61E+02	—	0.87	0.86	0.48	1.1	—	1.3	0.44	0.081 J	0.095 J	—	1.6	—	0.82	—	0.7	1.5
trans-1,2-Dichloroethene	5.49E+06	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Trichloroethene	1.34E+04	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	—	1.2	1.2	1.2	1.3	—	1.3	1.3	1.3	1.3	—	1.3	—	1.3	—	1.4	1.4
Vinyl chloride	2.59E+06	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID		ROUX04	ROUX04	ROUX04 DUP	ROUX04	ROUX04 DUP	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04
Lab Sample ID		2321098-04	—	—	2321097-04	2321097-08	2321318-04	2321441-06	2321442-06	—	2321654-06	2321842-06	2322026-06	—	2322027-06	—	2322159-06	2322303-06
Sample Date	AHIA Odor Nuisance Level	11/5/2023	11/6/2023	11/6/2023	11/7/2023	11/7/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	—	0.04 U	0.04 U	—	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—
Carbonyl sulfide	2.85E-01	—	0.04 U	0.04 U	—	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	—	—
Dimethyl disulfide	1.45E-03	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
Dimethyl sulfide	6.00E-04	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
Ethyl mercaptan	4.35E-05	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
Hydrogen sulfide	2.00E-04	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
i-Butyl mercaptan	1.35E-05	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
i-Propyl mercaptan	6.50E-05	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
Methyl mercaptan	2.55E-12	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
n-Propyl mercaptan	6.50E-05	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
s-Butyl mercaptan	1.35E-05	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
t-Butyl mercaptan	1.35E-05	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
Tetrahydrothiophene	1.94E-04	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
Total Sulfur	NS	—	ND	ND	—	—	—	—	—	ND	—	—	—	ND	—	ND	—	—
Unidentified sulfurs	2.55E-12	—	0.04 U'	0.04 U'	—	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.58	—	—	0.56	0.57	0.59	0.52	0.52	—	0.54	0.52	0.48	—	0.46	—	0.46	0.52
1,1,2-Trichloroethane	NS	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	7.3 J,A01	—	—	0.51 J	0.83 J	5 U	0.66 J	0.89 J	—	1.1 J	1.6 J	0.25 J	—	0.16 J	—	0.5 J	0.98 J
1,2-Dibromoethane	3.84E+05	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	0.094 J	—	—	0.08 J	0.082 J	0.097 J	0.14	0.1 U	—	0.17	0.1 U	0.077 J	—	0.065 J	—	0.07 J	0.087 J
1,3-Dichlorobenzene	NS	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.1 J	—	—	0.063 J	0.051 J	0.2 U	0.071 J	0.2 U	—	0.1 J	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.093 J
Benzene	7.51E+03	0.9	—	—	0.57	0.63	0.23	0.94	0.76	—	1.3	0.71	0.47	—	0.2	—	0.82	0.61
Benzyl chloride	1.06E+03	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	0.62	—	—	0.59	0.6	0.63	0.51	0.2 U	—	0.56	0.2 U	0.44	—	0.43	—	0.43	0.48
Chlorobenzene	2.00E+03	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Chloroform	2.49E+03	0.57	—	—	0.093	0.099	0.09	0.13	0.05 U	—	0.15	0.05 U	0.078	—	0.068	—	0.076	0.093
cis-1,2-Dichloroethene	5.49E+06	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	2.7	—	—	2.6	2.6	2.7	2.4	2.5	—	2.7	2.7	2.1	—	2	—	2	2.4
Ethylbenzene	4.34E+01	0.34	—	—	0.21	0.18	0.064	0.37	0.32	—	0.43	0.35	0.07	—	0.041 J	—	0.23	0.17
o-Xylene	2.61E+02	0.39	—	—	0.23	0.21	0.077	0.5	0.42	—	0.51	0.43	0.07	—	0.047 J	—	0.24	0.18
p- & m-Xylenes	2.61E+02	1.1	—	—	0.66	0.59	0.22	1.4	1.2	—	1.4	1.2	0.19	—	0.13	—	0.71	0.55
Tetrachloroethene	2.60E+04	0.05 J	—	—	0.1 U	0.1 U	0.045 J	0.039 J	0.1 U	—	0.083 J	0.1 U	0.1 U	—	0.14	—	0.1 U	0.1 U
Toluene	4.90E+02	1.6	—	—	0.88	0.89	0.36	1.6	1.6	—	2	1.7	0.3	—	0.27	—	1.1	0.84
Total Xylenes	2.61E+02	1.5	—	—	0.89	0.8	0.3	1.9	1.6	—	1.9	1.6	0.26	—	0.18	—	0.95	0.74
trans-1,2-Dichloroethene	5.49E+06	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Trichloroethene	1.34E+04	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	1.5	—	—	1.4	1.5	1.5	1.3	1.3	—	1.4	1.4	1.1	—	1	—	1.1	1.2
Vinyl chloride	2.59E+06	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'

Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California

Sample ID		ROUX04	ROUX04 DUP	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04	ROUX04 DUP	ROUX04	ROUX05	ROUX05	ROUX05	ROUX05
Lab Sample ID		2322387-06	2322387-10	2322386-06	—	2322612-06	2322806-06	2323016-06	—	2323015-06	23463-23	2323261-06	2323261-10	2323378-06	—	2320820-01	2320984-05	2321098-05
Sample Date	AHIA Odor Nuisance Level	12/1/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/13/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—
Carbonyl sulfide	2.85E-01	—	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—
Dimethyl disulfide	1.45E-03	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
Dimethyl sulfide	6.00E-04	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
Ethyl mercaptan	4.35E-05	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
Hydrogen sulfide	2.00E-04	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
i-Butyl mercaptan	1.35E-05	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
i-Propyl mercaptan	6.50E-05	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
Methyl mercaptan	2.55E-12	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
n-Propyl mercaptan	6.50E-05	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
s-Butyl mercaptan	1.35E-05	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
t-Butyl mercaptan	1.35E-05	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
Tetrahydrothiophene	1.94E-04	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
Total Sulfur	NS	—	—	—	ND	—	—	—	ND	—	ND	—	—	—	ND	—	—	—
Unidentified sulfurs	2.55E-12	—	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.49	0.5	0.5	—	0.51	0.54	0.57	—	0.54	—	0.56	0.56	0.45	—	0.61	0.57	0.58
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	0.17 J	0.18 J	0.71 J	—	3.5 J	0.72 J	0.066 J	—	0.79 J	—	0.58 J	0.58 J	0.13 J	—	5 U	0.39 J	0.56 J
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	0.11	0.11	0.1	—	0.1 U	0.1 U	0.092 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.093 J	0.088 J	0.086 J
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	0.1 J	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.033 J	0.035 J
Benzene	7.51E+03	0.72	0.68	1.3	—	1	0.26	0.37	—	1.2	—	0.57	0.57	0.28	—	0.4	0.54	0.59
Benzyl chloride	1.06E+03	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	0.46	0.47	0.47	—	0.2 U	0.2 U	0.56	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.57	0.57	0.61
Chlorobenzene	2.00E+03	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
Chloroform	2.49E+03	0.098	0.091	0.12	—	0.05 U	0.05 U	0.085	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.13	0.13	0.18
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	2.3	2.3	2.3	—	2.4	2.5	2.5	—	2.4	—	2.5	2.5	2.1	—	2.5	2.5	2.8
Ethylbenzene	4.34E+01	0.12	0.13	0.31	—	0.3	0.062	0.034 J	—	0.37	—	0.21	0.21	0.079	—	0.3	0.63	0.2
o-Xylene	2.61E+02	0.12	0.13	0.33	—	0.37	0.068	0.034 J	—	0.42	—	0.24	0.25	0.088	—	0.33	0.45	0.21
p- & m-Xylenes	2.61E+02	0.33	0.35	0.99	—	1.1	0.18	0.092	—	1.2	—	0.69	0.71	0.27	—	1	2	0.59
Tetrachloroethene	2.60E+04	0.037 J	0.1 U	0.039 J	—	0.1 U	0.1 U	0.32	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.048 J	0.052 J	0.058 J
Toluene	4.90E+02	0.53	0.54	1.7	—	1.8	0.27	0.32	—	1.7	—	0.9	1.1	0.44	—	1.1	1	0.8
Total Xylenes	2.61E+02	0.45	0.48	1.3	—	1.5	0.25	0.13	—	1.7	—	0.93	0.95	0.35	—	1.4	2.5	0.8
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U
Trichloroethene	1.34E+04	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	1.2	1.2	1.2	—	1.2	1.3	1.3	—	1.3	—	1.3	1.3	1.1	—	1.4	1.4	1.5
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX05	ROUX05 DUP	ROUX05	ROUX05	ROUX05	
Lab Sample ID	—	2321097-05	2321318-05	2321441-04	2321441-10	2321442-04	—	2321654-04	2321842-04	2322026-04	—	—	2322027-04	2322027-10	—	2322159-04	2322303-04	
Sample Date	11/6/2023	11/7/2023	11/9/2023	11/10/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/20/2023	11/21/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	
AHIA Odor Nuisance Level	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	
Carbonyl sulfide	2.85E-01	0.04 U	—	—	—	—	0.03 U	—	—	—	0.028 U	0.028 U	—	—	0.028 U	—	—	
Dimethyl disulfide	1.45E-03	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
Dimethyl sulfide	6.00E-04	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
Ethyl mercaptan	4.35E-05	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
Hydrogen sulfide	2.00E-04	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
i-Butyl mercaptan	1.35E-05	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
i-Propyl mercaptan	6.50E-05	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
Methyl mercaptan	2.55E-12	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
n-Propyl mercaptan	6.50E-05	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
s-Butyl mercaptan	1.35E-05	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
t-Butyl mercaptan	1.35E-05	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
Tetrahydrothiophene	1.94E-04	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
Total Sulfur	NS	ND	—	—	—	—	ND	—	—	—	ND	ND	—	—	ND	—	—	
Unidentified sulfurs	2.55E-12	0.04 U'	—	—	—	—	0.03 U'	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	—	—	
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.57	0.58	0.53	0.53	0.53	—	0.52	0.52	0.47	—	—	0.48	0.45	—	0.46	0.5
1,1,2-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	—	0.48 J	5 U	0.56 J	0.55 J	0.24 J	—	0.65 J	0.64 J	0.22 J	—	—	0.091 J	0.087 J	—	0.21 J	0.34 J
1,2-Dibromoethane	3.84E+05	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	—	0.088 J	0.1	0.13	0.14	0.1 U	—	0.16	0.1 U	0.079 J	—	—	0.065 J	0.061 J	—	0.068 J	0.093 J
1,3-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	—	0.044 J	0.2 U	0.2 U	0.038 J	0.2 U	—	0.044 J	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	0.2 U	0.2 U
Benzene	7.51E+03	—	1.3	0.29	0.53	0.52	0.5	—	1.1	0.81	0.9	—	—	0.2	0.19	—	0.31	1.1
Benzyl chloride	1.06E+03	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U,L07	0.5 U,L07	—	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	—	0.59	0.64	0.52	0.52	0.2 U	—	0.56	0.2 U	0.43	—	—	0.45	0.42	—	0.42	0.47
Chlorobenzene	2.00E+03	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U
Chloroform	2.49E+03	—	0.12	0.097	0.18	0.18	0.05 U	—	0.17	0.05 U	0.097	—	—	0.071	0.065	—	0.089	0.1
cis-1,2-Dichloroethene	5.49E+06	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	—	2.8	2.7	2.4	2.5	2.4	—	2.7	2.7	2.1	—	—	2.1	2	—	1.9	2.4
Ethylbenzene	4.34E+01	—	0.25	0.14	0.27	0.29	0.27	—	0.64	0.23	0.092	—	—	0.092	0.098	—	0.24	0.44
o-Xylene	2.61E+02	—	0.23	0.19	0.37	0.39	0.33	—	0.55	0.29	0.07	—	—	0.12	0.13	—	0.25	0.56
p- & m-Xylenes	2.61E+02	—	0.7	0.51	0.98	1	0.99	—	2.1	0.71	0.2	—	—	0.31	0.32	—	0.81	1.5
Tetrachloroethene	2.60E+04	—	0.2	0.1 U	0.042 J	0.092 J	0.1 U	—	0.091 J	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.037 J	0.046 J
Toluene	4.90E+02	—	0.78	0.69	1.3	1.3	0.95	—	1.4	1.3	0.32	—	—	0.37	0.49	—	0.59	1.9
Total Xylenes	2.61E+02	—	0.92	0.7	1.4	1.4	1.3	—	2.7	1	0.27	—	—	0.43	0.45	—	1.1	2
trans-1,2-Dichloroethene	5.49E+06	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	0.05 U	0.05 U
Trichloroethene	1.34E+04	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	—	1.4	1.5	1.3	1.3	1.3	—	1.4	1.4	1.1	—	—	1.1	1	—	1	1.2
Vinyl chloride	2.59E+06	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID		ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05	ROUX05 DUP	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06
Lab Sample ID		2322387-04	2322386-04	—	2322612-04	2322806-04	2323016-04	—	2323015-04	23463-21	2323261-04	2323378-04	2323378-09	—	2320820-02	2320984-06	2321098-06	—	2321097-06
Sample Date	AHIA Odor Nuisance Level	12/1/2023	12/3/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/7/2023
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	8.00E-02	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	—	0.04 U
Carbonyl sulfide	2.85E-01	—	—	0.028 U	—	—	—	0.025 U	—	0.025 U	—	—	—	0.045 U	—	—	—	—	0.04 U
Dimethyl disulfide	1.45E-03	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
Dimethyl sulfide	6.00E-04	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
Ethyl mercaptan	4.35E-05	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
Hydrogen sulfide	2.00E-04	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
i-Butyl mercaptan	1.35E-05	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
i-Propyl mercaptan	6.50E-05	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
Methyl mercaptan	2.55E-12	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
n-Propyl mercaptan	6.50E-05	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
s-Butyl mercaptan	1.35E-05	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
t-Butyl mercaptan	1.35E-05	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
Tetrahydrothiophene	1.94E-04	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
Total Sulfur	NS	—	—	ND	—	—	—	ND	—	ND	—	—	—	ND	—	—	—	—	ND
Unidentified sulfurs	2.55E-12	—	—	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—	—	0.045 U'	—	—	—	—	0.04 U'
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.5	0.49	—	0.52	0.54	0.56	—	0.54	—	0.54	0.45	0.45	—	0.6	0.57	0.56	—	0.58
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Difluoroethane	NS	0.16 J	0.47 J	—	0.46 J	0.082 J	0.051 J	—	0.32 J	—	0.35 J	0.15 J	0.16 J	—	5 U	0.86 J	1 J	—	0.48 J
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U
1,2-Dichloroethane	8.70E+04	0.11	0.1	—	0.1 U	0.1 U	0.087 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.093 J	0.087 J	0.091 J	—	0.082 J
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.042 J	0.051 J	0.059 J	—	0.038 J
Benzene	7.51E+03	0.39	1.3	—	0.56	0.23	0.24	—	0.87	—	0.37	0.27	0.28	—	0.45	0.7	0.7	—	0.77
Benzyl chloride	1.06E+03	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U
Carbon tetrachloride	5.28E+04	0.46	0.46	—	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.56	0.56	0.6	—	0.59
Chlorobenzene	2.00E+03	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
Chloroform	2.49E+03	0.11	0.14	—	0.05 U	0.05 U	0.098	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.14	0.17	0.21	—	0.11
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
Dichlorodifluoromethane	4.94E+09	2.3	2.3	—	2.3	2.4	2.6	—	2.3	—	2.5	2	2	—	2.5	2.6	2.6	—	2.6
Ethylbenzene	4.34E+01	0.081	0.21	—	0.24	0.039 J	0.03 J	—	0.29	—	0.16	0.088	0.088	—	0.28	0.28	0.28	—	0.2
o-Xylene	2.61E+02	0.083	0.29	—	0.32	0.039 J	0.042 J	—	0.32	—	0.28	0.14	0.13	—	0.44	0.32	0.34	—	0.22
p- & m-Xylenes	2.61E+02	0.22	0.62	—	0.86	0.1	0.071	—	1	—	0.54	0.31	0.31	—	1.2	0.94	0.94	—	0.61
Tetrachloroethene	2.60E+04	0.038 J	0.089 J	—	0.1 U	0.1 U	0.067 J	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.05 J	0.045 J	0.05 J	—	0.052 J
Toluene	4.90E+02	0.4	1.2	—	1.7	0.16	0.15	—	1.6	—	0.87	0.46	0.44	—	1.8	1.2	1.3	—	0.79
Total Xylenes	2.61E+02	0.3	0.9	—	1.2	0.14	0.11	—	1.3	—	0.82	0.45	0.45	—	1.6	1.3	1.3	—	0.83
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.062	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U
Trichloroethene	1.34E+04	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U
Trichlorofluoromethane	1.40E+05	1.2	1.2	—	1.2	1.3	1.3	—	1.3	—	1.3	1	1.1	—	1.4	1.4	1.4	—	1.4
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID		ROUX06	ROUX06 DUP	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06	ROUX06 DUP	ROUX06	ROUX06 DUP	ROUX06	ROUX06	ROUX06
Lab Sample ID		2321318-06	2321318-08	2321441-02	2321442-02	—	2321654-02	2321842-02	2322026-02	—	2322027-02	—	—	2322159-02	2322159-08	2322303-02	2322387-02	2322386-02
Sample Date	AHIA Odor Nuisance Level	11/9/2023	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/27/2023	11/28/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—
Carbonyl sulfide	2.85E-01	—	—	—	—	0.03 U	—	—	—	0.028 U	—	0.028 U	0.028 U	—	—	—	—	—
Dimethyl disulfide	1.45E-03	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
Dimethyl sulfide	6.00E-04	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
Ethyl mercaptan	4.35E-05	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
Hydrogen sulfide	2.00E-04	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
i-Butyl mercaptan	1.35E-05	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
i-Propyl mercaptan	6.50E-05	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
Methyl mercaptan	2.55E-12	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
n-Propyl mercaptan	6.50E-05	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
s-Butyl mercaptan	1.35E-05	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
t-Butyl mercaptan	1.35E-05	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
Tetrahydrothiophene	1.94E-04	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
Total Sulfur	NS	—	—	—	—	ND	—	—	—	ND	—	ND	ND	—	—	—	—	—
Unidentified sulfurs	2.55E-12	—	—	—	—	0.03 U'	—	—	—	0.028 U'	—	0.028 U'	0.028 U'	—	—	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.59	0.58	0.53	0.52	—	0.53	0.52	0.47	—	0.47	—	—	0.46	0.46	0.5	0.5	0.49
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	0.6 J	0.5 J	0.6 J	0.45 J	—	0.66 J	2.4 J	0.35 J	—	0.11 J	—	—	0.31 J	0.31 J	0.57 J	0.2 J	0.55 J
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	0.1	0.1	0.13	0.1 U	—	0.1 U	0.1 U	0.079 J	—	0.062 J	—	—	0.069 J	0.068 J	0.089 J	0.11	0.1
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	0.038 J	0.2 U	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	7.51E+03	0.3	0.3	0.57	0.65	—	0.7	0.76	0.66	—	0.21	—	—	0.38	0.37	1	0.48	0.94
Benzyl chloride	1.06E+03	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	—	0.5 U, L07	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	0.64	0.63	0.52	0.2 U	—	0.2 U	0.2 U	0.43	—	0.42	—	—	0.42	0.42	0.46	0.46	0.46
Chlorobenzene	2.00E+03	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	2.49E+03	0.14	0.12	0.18	0.05 U	—	0.05 U	0.05 U	0.095	—	0.093	—	—	0.11	0.11	0.13	0.11	0.16
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	2.7	2.7	2.5	2.7	—	2.7	2.6	2.1	—	2	—	—	2	2	2.4	2.3	2.2
Ethylbenzene	4.34E+01	0.091	0.087	0.29	0.28	—	0.26	0.27	0.11	—	0.043 J	—	—	0.13	0.15	0.25	0.093	0.26
o-Xylene	2.61E+02	0.13	0.11	0.38	0.36	—	0.3	0.31	0.12	—	0.051	—	—	0.15	0.17	0.28	0.099	0.28
p- & m-Xylenes	2.61E+02	0.34	0.3	1.1	1	—	0.87	0.79	0.33	—	0.13	—	—	0.46	0.51	0.84	0.26	0.81
Tetrachloroethene	2.60E+04	0.1 U	0.1 U	0.039 J	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.049 J	—	—	0.036 J	0.036 J	0.1 U	0.1 U	0.042 J
Toluene	4.90E+02	0.64	0.64	1.3	1.3	—	1.5	1.4	0.53	—	0.35	—	—	0.78	0.77	1.2	0.42	1.2
Total Xylenes	2.61E+02	0.47	0.41	1.5	1.4	—	1.2	1.1	0.45	—	0.18	—	—	0.61	0.67	1.1	0.36	1.1
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	1.34E+04	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	1.5	1.5	1.3	1.3	—	1.4	1.3	1.1	—	1.1	—	—	1	1	1.2	1.2	1.2
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'

Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California

Sample ID		ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07 DUP	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07	ROUX07
Lab Sample ID		2321318-07	2321441-01	2321442-01	—	2321654-01	2321842-01	2322026-01	2322026-10	—	2322027-01	—	2322159-01	2322303-01	2322387-01	2322386-01	—	2322612-01
Sample Date	AHIA Odor Nuisance Level	11/9/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/3/2023	12/5/2023	12/6/2023
SULFUR - 307.91 (ppmv)																		
Carbon disulfide	8.00E-02	—	—	—	0.03 U	—	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	0.028 U
Carbonyl sulfide	2.85E-01	—	—	—	0.03 U	—	—	—	—	0.028 U	—	0.028 U	—	—	—	—	—	0.028 U
Dimethyl disulfide	1.45E-03	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
Dimethyl sulfide	6.00E-04	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
Ethyl mercaptan	4.35E-05	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
Hydrogen sulfide	2.00E-04	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
i-Butyl mercaptan	1.35E-05	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
i-Propyl mercaptan	6.50E-05	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
Methyl mercaptan	2.55E-12	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
n-Propyl mercaptan	6.50E-05	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
s-Butyl mercaptan	1.35E-05	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
t-Butyl mercaptan	1.35E-05	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
Tetrahydrothiophene	1.94E-04	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
Total Sulfur	NS	—	—	—	ND	—	—	—	—	ND	—	ND	—	—	—	—	—	ND
Unidentified sulfurs	2.55E-12	—	—	—	0.03 U'	—	—	—	—	0.028 U'	—	0.028 U'	—	—	—	—	—	0.028 U'
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																		
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.58	0.52	0.51	—	0.55	0.52	0.47	0.49	—	0.47	—	0.46	0.51	0.51	0.49	—	0.51
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
1,1-Difluoroethane	NS	0.28 J	0.76 J	0.41 J	—	0.75 J	0.59 J	0.24 J	4.1 J,A01	—	0.079 J	—	0.26 J	0.35 J	0.18 J	0.55 J	—	0.64 J
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U
1,2-Dichloroethane	8.70E+04	0.1	0.13	0.1 U	—	0.1 U	0.1 U	0.079 J	0.083 J	—	0.064 J	—	0.069 J	0.088 J	0.11	0.1	—	0.1 U
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U
Benzene	7.51E+03	0.31	0.63	0.63	—	0.98	0.74	0.49	0.55	—	0.33	—	0.43	0.74	0.52	0.77	—	0.78
Benzyl chloride	1.06E+03	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U,L07	—	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U
Carbon tetrachloride	5.28E+04	0.64	0.51	0.2 U	—	0.2 U	0.2 U	0.44	0.45	—	0.44	—	0.43	0.46	0.47	0.45	—	0.2 U
Chlorobenzene	2.00E+03	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
Chloroform	2.49E+03	0.17	0.23	0.05 U	—	0.05 U	0.05 U	0.098	0.45	—	0.089	—	0.16	0.14	0.11	0.19	—	0.05 U
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
Dichlorodifluoromethane	4.94E+09	2.8	2.4	2.9	—	2.9 A01	2.5	2.1	2.1	—	2.1	—	1.9	2.4	2.3	2.2	—	2.3
Ethylbenzene	4.34E+01	0.079	0.25	0.23	—	0.84	0.22	0.079	0.1	—	0.092	—	0.14	0.19	0.083	0.21	—	0.25
o-Xylene	2.61E+02	0.1	0.3	0.31	—	1	0.25	0.082	0.11	—	0.1	—	0.16	0.21	0.086	0.23	—	0.31
p- & m-Xylenes	2.61E+02	0.26	0.89	0.81	—	3.1	0.65	0.22	0.29	—	0.42	—	0.46	0.59	0.24	0.65	—	0.88
Tetrachloroethene	2.60E+04	0.12	0.047 J	0.1 U	—	0.1 U	0.1 U	0.037 J	0.077 J	—	0.1 U	—	0.1 U	0.041 J	0.1 U	0.046 J	—	0.1 U
Toluene	4.90E+02	0.53	1.5	1.3	—	3.9 A01	1.3	0.56	0.94	—	0.53	—	0.82	1	0.41	1.1	—	1.6
Total Xylenes	2.61E+02	0.36	1.2	1.1	—	4.2	0.9	0.31	0.4	—	0.52	—	0.62	0.8	0.33	0.88	—	1.2
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U
Trichloroethene	1.34E+04	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U
Trichlorofluoromethane	1.40E+05	1.5	1.3	1.3	—	1.5	1.4	1.1	1.1	—	1.1	—	1	1.2	1.2	1.2	—	1.2
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID		ROUX07	ROUX07	ROUX07	ROUX07	ROUX07 DUP	ROUX07 DUP	ROUX07	ROUX07	ROUX07	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	
Lab Sample ID		2322806-01	2323016-01	—	2323015-01	—	2323015-10	23463-18	2323261-01	2323378-01	—	—	2320820-04	2320820-06	2320984-09	2321098-09	—	—	
Sample Date	AHIA Odor Nuisance Level	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/16/2023	10/31/2023	10/31/2023	11/1/2023	11/1/2023	11/3/2023	11/5/2023	11/6/2023	11/6/2023	
SULFUR - 307.91 (ppmv)																			
Carbon disulfide	8.00E-02	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—	—	—	—	—	0.04 U	0.04 U
Carbonyl sulfide	2.85E-01	—	—	0.025 U	—	0.025 U	—	0.025 U	—	—	0.045 U	0.045 U	—	—	—	—	—	0.04 U	0.04 U
Dimethyl disulfide	1.45E-03	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
Dimethyl sulfide	6.00E-04	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
Ethyl mercaptan	4.35E-05	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
Hydrogen sulfide	2.00E-04	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
i-Butyl mercaptan	1.35E-05	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
i-Propyl mercaptan	6.50E-05	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
Methyl mercaptan	2.55E-12	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
n-Propyl mercaptan	6.50E-05	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
s-Butyl mercaptan	1.35E-05	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
t-Butyl mercaptan	1.35E-05	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
Tetrahydrothiophene	1.94E-04	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
Total Sulfur	NS	—	—	ND	—	ND	—	ND	—	—	ND	ND	—	—	—	—	—	ND	ND
Unidentified sulfurs	2.55E-12	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	—	—	0.045 U'	0.045 U'	—	—	—	—	—	0.04 U'	0.04 U'
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																			
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.53	0.57	—	0.54	—	0.54	—	0.55	0.44	—	—	0.61	0.59	0.57	0.56	—	—	—
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	—
1,1-Dichloroethane	NS	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	—
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	—
1,1-Difluoroethane	NS	0.099 J	0.11 J	—	0.57 J	—	0.58 J	—	0.44 J	0.25 J	—	—	5 U	5 U	5 U	5 U	—	—	—
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	—
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
1,2-Dichloroethane	8.70E+04	0.1 U	0.086 J	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.084 J	0.085 J	0.081 J	0.081 J	—	—	—
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	0.2 U	0.11 J	—	—	0.2 U	0.2 U	0.2 U	0.2 U	—	—	—
Benzene	7.51E+03	0.26	0.26	—	1.1	—	1.2	—	0.44	0.71	—	—	0.23	0.23	0.36	0.39	—	—	—
Benzyl chloride	1.06E+03	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	0.5 U	—	—	—
Carbon tetrachloride	5.28E+04	0.2 U	0.55	—	0.2 U	—	0.2 U	—	0.53	0.2 U	—	—	0.56	0.56	0.57	0.59	—	—	—
Chlorobenzene	2.00E+03	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	—
Chloroform	2.49E+03	0.05 U	0.096	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.1	0.23	0.12	0.12	—	—	—
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	—
Dichlorodifluoromethane	4.94E+09	2.3	2.5	—	2.4	—	2.4	—	2.5	1.9	—	—	2.5	2.5	2.5	2.5	—	—	—
Ethylbenzene	4.34E+01	0.034 J	0.05 U	—	0.27	—	0.28	—	0.17	0.14	—	—	0.062	0.077	0.13	0.13	—	—	—
o-Xylene	2.61E+02	0.034 J	0.05 U	—	0.29	—	0.31	—	0.18	0.15	—	—	0.081	0.089	0.14	0.14	—	—	—
p- & m-Xylenes	2.61E+02	0.084	0.052	—	0.84	—	0.9	—	0.52	0.44	—	—	0.23	0.26	0.39	0.39	—	—	—
Tetrachloroethene	2.60E+04	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.043 J	0.04 J	—	—	—
Toluene	4.90E+02	0.17	0.17	—	1.5	—	1.5	—	0.87	0.79	—	—	0.36	0.85	0.68	0.65	—	—	—
Total Xylenes	2.61E+02	0.12	0.052 J	—	1.1	—	1.2	—	0.7	0.59	—	—	0.31	0.35	0.53	0.54	—	—	—
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	—
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	—	—	—
Trichloroethene	1.34E+04	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	—	—	—
Trichlorofluoromethane	1.40E+05	1.2	1.3	—	1.3	—	1.2	—	1.3	1	—	—	1.4	1.4	1.4	1.4	—	—	—
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	—

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID		ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01
Lab Sample ID		2321097-09	2321097-11	2321318-09	2321441-05	2321441-11	2321442-05	—	2321654-05	2321842-05	2321842-11	2322026-05	2322026-11	—	2322027-05	—	2322159-05
Sample Date	AHIA Odor Nuisance Level	11/7/2023	11/7/2023	11/9/2023	11/10/2023	11/10/2023	11/12/2023	11/14/2023	11/14/2023	11/16/2023	11/16/2023	11/19/2023	11/19/2023	11/20/2023	11/21/2023	11/27/2023	11/28/2023
SULFUR - 307.91 (ppmv)																	
Carbon disulfide	8.00E-02	—	—	—	—	—	—	0.03 U	—	—	—	—	—	0.028 U	—	0.028 U	—
Carbonyl sulfide	2.85E-01	—	—	—	—	—	—	0.03 U	—	—	—	—	—	0.028 U	—	0.028 U	—
Dimethyl disulfide	1.45E-03	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
Dimethyl sulfide	6.00E-04	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
Ethyl mercaptan	4.35E-05	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
Hydrogen sulfide	2.00E-04	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
i-Butyl mercaptan	1.35E-05	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
i-Propyl mercaptan	6.50E-05	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
Methyl mercaptan	2.55E-12	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
n-Propyl mercaptan	6.50E-05	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
s-Butyl mercaptan	1.35E-05	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
t-Butyl mercaptan	1.35E-05	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
Tetrahydrothiophene	1.94E-04	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
Total Sulfur	NS	—	—	—	—	—	—	ND	—	—	—	—	—	ND	—	ND	—
Unidentified sulfurs	2.55E-12	—	—	—	—	—	—	0.03 U'	—	—	—	—	—	0.028 U'	—	0.028 U'	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																	
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.59	0.57	0.59	0.54	0.53	0.51	—	0.53	0.54	0.53	0.48	0.48	—	0.48	—	0.46
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
1,1-Difluoroethane	NS	0.3 J	0.63 J	5 U	0.2 J	0.17 J	0.18 J	—	0.28 J	0.32 J	0.33 J	0.19 J	0.22 J	—	5 U	—	0.13 J
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
1,2-Dichloroethane	8.70E+04	0.082 J	0.08 J	0.1	0.13	0.13	0.1 U	—	0.16	0.1 U	0.1 U	0.076 J	0.078 J	—	0.065 J	—	0.066 J
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.037 J	0.038 J	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U
Benzene	7.51E+03	0.46	0.49	0.18	0.33	0.3	0.45	—	0.64	0.52	0.53	0.54	0.52	—	0.17	—	0.24
Benzyl chloride	1.06E+03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U, L07	—	0.5 U
Carbon tetrachloride	5.28E+04	0.61	0.6	0.65	0.52	0.53	0.2 U	—	0.56	0.2 U	0.2 U	0.43	0.45	—	0.44	—	0.42
Chlorobenzene	2.00E+03	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
Chloroform	2.49E+03	0.11	0.12	0.092	0.13	0.13	0.05 U	—	0.14	0.05 U	0.05 U	0.077	0.079	—	0.068	—	0.086
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
Dichlorodifluoromethane	4.94E+09	2.7	2.5	2.7	2.5	2.4	2.3	—	2.7	2.7	2.5	2.1	2.2	—	2.2	—	2
Ethylbenzene	4.34E+01	0.16	0.19	0.041 J	0.095	0.098	0.12	—	0.21	0.19	0.2	0.062	0.12	—	0.023 J	—	0.075
o-Xylene	2.61E+02	0.18	0.23	0.05	0.11	0.11	0.15	—	0.25	0.22	0.25	0.058	0.14	—	0.028 J	—	0.083
p- & m-Xylenes	2.61E+02	0.55	0.67	0.15	0.31	0.3	0.4	—	0.66	0.56	0.66	0.16	0.43	—	0.067	—	0.24
Tetrachloroethene	2.60E+04	0.1 U	0.1 U	0.12	0.13	0.12	0.1 U	—	0.061 J	0.1 U	0.1 U	0.1 U	0.038 J	—	0.1 U	—	0.038 J
Toluene	4.90E+02	0.59	0.62	0.22	0.51	0.48	0.72	—	1.1	0.93	0.97	0.33	0.74	—	0.21	—	0.46
Total Xylenes	2.61E+02	0.73	0.9	0.2	0.43	0.41	0.54	—	0.91	0.78	0.91	0.22	0.57	—	0.095 J	—	0.32
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U
Trichloroethene	1.34E+04	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U
Trichlorofluoromethane	1.40E+05	1.5	1.4	1.5	1.3	1.3	1.3	—	1.4	1.4	1.4	1.1	1.1	—	1.1	—	1
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'

Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California

Sample ID		ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01 DUP	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01	ROUXB01 DUP
Lab Sample ID		2322159-09	2322303-05	2322303-11	2322387-05	2322386-05	2322386-10	—	—	2322612-05	2322806-05	2323016-05	—	2323015-05	23463-22	2323261-05	2323261-11
Sample Date	AHIA Odor Nuisance Level	11/28/2023	11/30/2023	11/30/2023	12/1/2023	12/3/2023	12/3/2023	12/5/2023	12/5/2023	12/6/2023	12/8/2023	12/9/2023	12/11/2023	12/11/2023	12/12/2023	12/13/2023	12/13/2023
SULFUR - 307.91 (ppmv)																	
Carbon disulfide	8.00E-02	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U	—	0.025 U	—	—
Carbonyl sulfide	2.85E-01	—	—	—	—	—	—	0.028 U	0.028 U	—	—	—	0.025 U	—	0.025 U	—	—
Dimethyl disulfide	1.45E-03	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
Dimethyl sulfide	6.00E-04	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
Ethyl mercaptan	4.35E-05	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
Hydrogen sulfide	2.00E-04	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
i-Butyl mercaptan	1.35E-05	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
i-Propyl mercaptan	6.50E-05	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
Methyl mercaptan	2.55E-12	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
n-Propyl mercaptan	6.50E-05	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
s-Butyl mercaptan	1.35E-05	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
t-Butyl mercaptan	1.35E-05	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
Tetrahydrothiophene	1.94E-04	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
Total Sulfur	NS	—	—	—	—	—	—	ND	ND	—	—	—	ND	—	ND	—	—
Unidentified sulfurs	2.55E-12	—	—	—	—	—	—	0.028 U'	0.028 U'	—	—	—	0.025 U'	—	0.025 U'	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																	
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.46	0.52	0.51	0.5	0.5	0.5	—	—	0.52	0.54	0.55	—	0.56	—	0.56	0.56
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	0.13 J	0.25 J	0.29 J	0.095 J	0.29 J	0.29 J	—	—	0.15 J	0.1 J	5 U	—	1.3 J	—	0.12 J	0.12 J
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	0.065 J	0.084 J	0.082 J	0.11	0.094 J	0.095 J	—	—	0.1 U	0.1 U	0.087 J	—	0.1 U	—	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	0.2 U
Benzene	7.51E+03	0.25	0.46	0.35	0.41	0.49	0.56	—	—	0.28	0.25	0.23	—	0.46	—	0.24	0.24
Benzyl chloride	1.06E+03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	—	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	0.42	0.48	0.47	0.46	0.46	0.46	—	—	0.2 U	0.2 U	0.54	—	0.2 U	—	0.2 U	0.2 U
Chlorobenzene	2.00E+03	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Chloroform	2.49E+03	0.091	0.13	0.11	0.11	0.12	0.11	—	—	0.05 U	0.05 U	0.085	—	0.05 U	—	0.05 U	0.05 U
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	2	2.4	2.4	2.3	2.3	2.3	—	—	2.4	2.5	2.5	—	2.4	—	2.6	2.6
Ethylbenzene	4.34E+01	0.069	0.083	0.081	0.062	0.14	0.14	—	—	0.079	0.061	0.022 J	—	0.17	—	0.057	0.055
o-Xylene	2.61E+02	0.079	0.096	0.087	0.066	0.16	0.17	—	—	0.094	0.088	0.05 U	—	0.2	—	0.064	0.061
p- & m-Xylenes	2.61E+02	0.23	0.26	0.25	0.17	0.47	0.48	—	—	0.27	0.22	0.044 J	—	0.56	—	0.18	0.18
Tetrachloroethene	2.60E+04	0.086 J	0.084 J	0.096 J	0.06 J	0.086 J	0.078 J	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Toluene	4.90E+02	0.46	0.51	0.46	0.29	0.76	0.64	—	—	0.44	0.31	0.12	—	0.88	—	0.39	0.31
Total Xylenes	2.61E+02	0.31	0.35	0.34	0.24	0.63	0.65	—	—	0.36	0.31	0.044 J	—	0.77	—	0.24	0.24
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	0.05 U
Trichloroethene	1.34E+04	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	1	1.2	1.2	1.2	1.2	1.2	—	—	1.2	1.3	1.3	—	1.3	—	1.3	1.3
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID		ROUXB01	ROUXB01 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02
Lab Sample ID		2323378-05	2323378-10	—	2320820-05	2320984-10	2320984-11	2321098-10	2321098-11	—	2321097-10	2321318-10	2321318-11	2321441-03	2321442-03	2321442-11	—
Sample Date	AHIA Odor Nuisance Level	12/16/2023	12/16/2023	10/31/2023	11/1/2023	11/3/2023	11/3/2023	11/5/2023	11/5/2023	11/6/2023	11/7/2023	11/9/2023	11/9/2023	11/10/2023	11/12/2023	11/12/2023	11/14/2023
SULFUR - 307.91 (ppmv)																	
Carbon disulfide	8.00E-02	—	—	0.045 U	—	—	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U
Carbonyl sulfide	2.85E-01	—	—	0.045 U	—	—	—	—	—	0.04 U	—	—	—	—	—	—	0.03 U
Dimethyl disulfide	1.45E-03	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
Dimethyl sulfide	6.00E-04	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
Ethyl mercaptan	4.35E-05	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
Hydrogen sulfide	2.00E-04	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
i-Butyl mercaptan	1.35E-05	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
i-Propyl mercaptan	6.50E-05	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
Methyl mercaptan	2.55E-12	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
n-Propyl mercaptan	6.50E-05	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
s-Butyl mercaptan	1.35E-05	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
t-Butyl mercaptan	1.35E-05	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
Tetrahydrothiophene	1.94E-04	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
Total Sulfur	NS	—	—	ND	—	—	—	—	—	ND	—	—	—	—	—	—	ND
Unidentified sulfurs	2.55E-12	—	—	0.045 U'	—	—	—	—	—	0.04 U'	—	—	—	—	—	—	0.03 U'
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																	
1,1,1-Trichloroethane	2.65E+04	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.45	0.45	—	0.61	0.59	0.58	0.56	0.55	—	0.57	0.6	0.6	0.54	0.53	0.52	—
1,1,2-Trichloroethane	NS	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
1,1-Dichloroethane	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Dichloroethene	9.91E+05	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
1,1-Difluoroethane	NS	0.094 J	0.093 J	—	0.87 J	0.6 J	0.62 J	1.8 J	1.9 J	—	0.59 J	5 U	0.44 J	0.57 J	1.2 J	1.3 J	—
1,2-Dibromoethane	3.84E+05	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—
1,2-Dichlorobenzene	6.01E+02	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—
1,2-Dichloroethane	8.70E+04	0.1 U	0.1 U	—	0.085 J	0.089 J	0.089 J	0.09 J	0.091 J	—	0.083 J	0.11	0.11	0.14	0.1 U	0.1 U	—
1,3-Dichlorobenzene	NS	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—
1,4-Dichlorobenzene	3.64E+03	0.2 U	0.2 U	—	0.2 U	0.049 J	0.047 J	0.065 J	0.076 J	—	0.046 J	0.2 U	0.2 U	0.032 J	0.2 U	0.2 U	—
Benzene	7.51E+03	0.24	0.23	—	0.24	0.48	0.47	0.6	0.61	—	0.72	0.3	0.3	0.51	0.74	0.77	—
Benzyl chloride	1.06E+03	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—
Carbon tetrachloride	5.28E+04	0.2 U	0.2 U	—	0.57	0.58	0.56	0.59	0.59	—	0.6	0.65	0.64	0.52	0.2 U	0.2 U	—
Chlorobenzene	2.00E+03	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
Chloroform	2.49E+03	0.05 U	0.05 U	—	0.1	0.22	0.22	0.27	0.25	—	0.15	0.11	0.15	0.17	0.05 U	0.05 U	—
cis-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
Dichlorodifluoromethane	4.94E+09	2	2.1	—	2.5	2.5	2.5	2.5	2.5	—	2.6	2.7	2.7	2.4	2.5	2.5	—
Ethylbenzene	4.34E+01	0.092	0.092	—	0.058	0.18	0.18	0.2	0.21	—	0.16	0.11	0.062	0.15	0.16	0.19	—
o-Xylene	2.61E+02	0.11	0.12	—	0.066	0.22	0.21	0.25	0.27	—	0.18	0.2	0.074	0.18	0.18	0.24	—
p- & m-Xylenes	2.61E+02	0.3	0.31	—	0.18	0.63	0.62	0.68	0.71	—	0.52	0.48	0.2	0.49	0.51	0.65	—
Tetrachloroethene	2.60E+04	0.1 U	0.1 U	—	0.1 U	0.037 J	0.1 U	0.054 J	0.043 J	—	0.036 J	0.053 J	0.036 J	0.1 U	0.1 U	0.1 U	—
Toluene	4.90E+02	0.41	0.46	—	0.44	0.91	0.94	1.1	1.1	—	0.71	0.73	0.42	0.82	1	1.2	—
Total Xylenes	2.61E+02	0.41	0.43	—	0.25	0.85	0.84	0.94	0.97	—	0.69	0.68	0.27	0.67	0.69	0.89	—
trans-1,2-Dichloroethene	5.49E+06	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
trans-1,3-Dichloropropene	NS	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—
Trichloroethene	1.34E+04	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—
Trichlorofluoromethane	1.40E+05	1.1	1.1	—	1.4	1.4	1.4	1.4	1.4	—	1.4	1.5	1.5	1.3	1.3	1.3	—
Vinyl chloride	2.59E+06	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	
Lab Sample ID	—	2321654-03	2321654-11	2321842-03	2322026-03	—	—	2322027-03	2322027-11	—	—	2322159-03	2322303-03	2322387-03	2322387-11	2322386-03	
Sample Date	AHIA Odor Nuisance Level	11/14/2023	11/14/2023	11/14/2023	11/16/2023	11/19/2023	11/20/2023	11/20/2023	11/21/2023	11/21/2023	11/27/2023	11/27/2023	11/28/2023	11/30/2023	12/1/2023	12/1/2023	12/3/2023
SULFUR - 307.91 (ppmv)																	
Carbon disulfide	8.00E-02	0.03 U	—	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—	—	—
Carbonyl sulfide	2.85E-01	0.03 U	—	—	—	—	—	0.028 U	0.028 U	—	—	0.028 U	0.028 U	—	—	—	—
Dimethyl disulfide	1.45E-03	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
Dimethyl sulfide	6.00E-04	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
Ethyl mercaptan	4.35E-05	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
Hydrogen sulfide	2.00E-04	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
i-Butyl mercaptan	1.35E-05	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
i-Propyl mercaptan	6.50E-05	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
Methyl mercaptan	2.55E-12	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
n-Propyl mercaptan	6.50E-05	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
s-Butyl mercaptan	1.35E-05	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
t-Butyl mercaptan	1.35E-05	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
Tetrahydrothiophene	1.94E-04	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
Total Sulfur	NS	ND	—	—	—	—	—	ND	ND	—	—	ND	ND	—	—	—	—
Unidentified sulfurs	2.55E-12	0.03 U'	—	—	—	—	—	0.028 U'	0.028 U'	—	—	0.028 U'	0.028 U'	—	—	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)																	
1,1,1-Trichloroethane	2.65E+04	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.53	—	0.53	0.52	0.47	—	—	0.46	0.46	—	—	0.46	0.51	0.49	0.51	0.51
1,1,2-Trichloroethane	NS	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethane	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
1,1-Difluoroethane	NS	1.3 J	—	1.4 J	0.96 J	0.75 J	—	—	0.061 J	0.07 J	—	—	0.56 J	0.59 J	0.13 J	0.18 J	0.29 J
1,2-Dibromoethane	3.84E+05	0.2 U'	—	0.2 U'	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	—	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	0.16	—	0.16	0.1 U	0.081 J	—	—	0.063 J	0.061 J	—	—	0.071 J	0.093 J	0.11	0.1 U	0.097 J
1,3-Dichlorobenzene	NS	0.2 U	—	0.2 U	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	0.05 J	—	0.057 J	0.2 U	0.2 U	—	—	0.2 U	0.2 U	—	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzene	7.51E+03	0.8	—	0.83	0.9	0.48	—	—	0.2	0.18	—	—	0.39	0.75	0.45	0.43	0.54
Benzyl chloride	1.06E+03	0.5 U	—	0.5 U	0.5 U	0.5 U	—	—	0.5 U,L07	0.5 U,L07	—	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	0.57	—	0.56	0.2 U	0.43	—	—	0.44	0.43	—	—	0.42	0.46	0.46	0.2 U	0.46
Chlorobenzene	2.00E+03	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Chloroform	2.49E+03	0.24	—	0.24	0.05 U	0.1	—	—	0.07	0.066	—	—	0.12	0.18	0.097	0.05 U	0.13
cis-1,2-Dichloroethene	5.49E+06	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	2.7	—	2.6	2.6	2.1	—	—	2.1	2	—	—	2	2.4	2.3	2.3	2.3
Ethylbenzene	4.34E+01	0.26	—	0.26	0.22	0.069	—	—	0.045 J	0.025 J	—	—	0.093	0.14	0.061	0.087	0.091
o-Xylene	2.61E+02	0.37	—	0.32	0.23	0.071	—	—	0.051	0.027 J	—	—	0.1	0.16	0.055	0.11	0.098
p- & m-Xylenes	2.61E+02	0.92	—	0.89	0.62	0.19	—	—	0.14	0.068	—	—	0.29	0.47	0.15	0.27	0.28
Tetrachloroethene	2.60E+04	0.062 J	—	0.061 J	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.038 J	0.1 U	0.1 U	0.1 U	0.1 U
Toluene	4.90E+02	1.7	—	1.5	1.4	0.42	—	—	0.4	0.16	—	—	0.54	0.91	0.31	0.44	0.51
Total Xylenes	2.61E+02	1.3	—	1.2	0.86	0.26	—	—	0.19	0.095 J	—	—	0.39	0.62	0.21	0.38	0.38
trans-1,2-Dichloroethene	5.49E+06	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	0.05 U	—	0.05 U	0.05 U	0.05 U	—	—	0.05 U	0.05 U	—	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Trichloroethene	1.34E+04	0.1 U	—	0.1 U	0.1 U	0.1 U	—	—	0.1 U	0.1 U	—	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	1.4	—	1.4	1.3	1.1	—	—	1.1	1	—	—	1	1.2	1.2	1.2	1.2
Vinyl chloride	2.59E+06	0.02 U'	—	0.02 U'	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	—	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'

**Table 6. Sulfur Compound and VOC Results Compared to Odor Thresholds
Chiquita Canyon Landfill, Castaic, California**

Sample ID	ROUXB02	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	ROUXB02 DUP	ROUXB02 DUP	ROUXB02	ROUXB02 DUP	ROUXB02	ROUXB02	
Lab Sample ID	—	2322612-03	2322806-03	2322806-11	2323016-03	2323016-11	—	2323015-03	—	2323015-11	23463-20	23463-28	2323261-03	2323378-03	
Sample Date	AHIA Odor Nuisance Level	12/5/2023	12/6/2023	12/8/2023	12/8/2023	12/9/2023	12/9/2023	12/11/2023	12/11/2023	12/11/2023	12/11/2023	12/12/2023	12/12/2023	12/13/2023	12/16/2023
SULFUR - 307.91 (ppmv)															
Carbon disulfide	8.00E-02	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Carbonyl sulfide	2.85E-01	0.028 U	—	—	—	—	—	0.025 U	—	0.025 U	—	0.025 U	0.025 U	—	—
Dimethyl disulfide	1.45E-03	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
Dimethyl sulfide	6.00E-04	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
Ethyl mercaptan	4.35E-05	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
Hydrogen sulfide	2.00E-04	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
i-Butyl mercaptan	1.35E-05	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
i-Propyl mercaptan	6.50E-05	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
Methyl mercaptan	2.55E-12	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
n-Propyl mercaptan	6.50E-05	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
s-Butyl mercaptan	1.35E-05	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
t-Butyl mercaptan	1.35E-05	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
Tetrahydrothiophene	1.94E-04	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
Total Sulfur	NS	ND	—	—	—	—	—	ND	—	ND	—	ND	ND	—	—
Unidentified sulfurs	2.55E-12	0.028 U'	—	—	—	—	—	0.025 U'	—	0.025 U'	—	0.025 U'	0.025 U'	—	—
VOLATILE ORGANIC COMPOUNDS - EPA-TO-15-SIM (µg/m³)															
1,1,1-Trichloroethane	2.65E+04	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	—	0.51	0.54	0.56	0.56	0.57	—	0.54	—	0.54	—	—	0.56	0.44
1,1,2-Trichloroethane	NS	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,1-Dichloroethane	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
1,1-Dichloroethene	9.91E+05	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
1,1-Difluoroethane	NS	—	0.98 J	0.1 J	0.12 J	0.058 J	0.062 J	—	1.5 J	—	1.6 J	—	—	0.12 J	0.31 J
1,2-Dibromoethane	3.84E+05	—	0.2 U'	0.2 U'	0.2 U'	0.2 U'	0.2 U'	—	0.2 U'	—	0.2 U'	—	—	0.2 U'	0.2 U'
1,2-Dichlorobenzene	6.01E+02	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
1,2-Dichloroethane	8.70E+04	—	0.1 U	0.1 U	0.1 U	0.087 J	0.088 J	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
1,3-Dichlorobenzene	NS	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
1,4-Dichlorobenzene	3.64E+03	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
Benzene	7.51E+03	—	0.48	0.24	0.24	0.25	0.31	—	0.98	—	1.1	—	—	0.26	0.34
Benzyl chloride	1.06E+03	—	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	—	0.5 U	—	0.5 U	—	—	0.5 U	0.5 U
Carbon tetrachloride	5.28E+04	—	0.2 U	0.2 U	0.2 U	0.53	0.55	—	0.2 U	—	0.2 U	—	—	0.2 U	0.2 U
Chlorobenzene	2.00E+03	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Chloroform	2.49E+03	—	0.05 U	0.05 U	0.05 U	0.085	0.093	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
cis-1,2-Dichloroethene	5.49E+06	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
Dichlorodifluoromethane	4.94E+09	—	2.3	2.4	2.5	2.6	2.4	—	2.4	—	2.5	—	—	2.5	2
Ethylbenzene	4.34E+01	—	0.15	0.039 J	0.054	0.025 J	0.035 J	—	0.25	—	0.28	—	—	0.046 J	0.062
o-Xylene	2.61E+02	—	0.16	0.034 J	0.069	0.027 J	0.03 J	—	0.27	—	0.3	—	—	0.05	0.068
p- & m-Xylenes	2.61E+02	—	0.49	0.088	0.19	0.063	0.09	—	0.79	—	0.88	—	—	0.14	0.19
Tetrachloroethene	2.60E+04	—	0.1 U	0.1 U	0.1 U	0.1 U	0.16	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Toluene	4.90E+02	—	0.87	0.17	0.32	0.19	0.37	—	1.3	—	1.4	—	—	0.28	0.37
Total Xylenes	2.61E+02	—	0.65	0.12	0.26	0.09 J	0.12	—	1.1	—	1.2	—	—	0.19	0.26
trans-1,2-Dichloroethene	5.49E+06	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
trans-1,3-Dichloropropene	NS	—	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	—	0.05 U	—	0.05 U	—	—	0.05 U	0.05 U
Trichloroethene	1.34E+04	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	—	0.1 U	—	0.1 U	—	—	0.1 U	0.1 U
Trichlorofluoromethane	1.40E+05	—	1.2	1.3	1.3	1.3	1.3	—	1.3	—	1.3	—	—	1.3	1
Vinyl chloride	2.59E+06	—	0.02 U'	0.02 U'	0.02 U'	0.02 U'	0.02 U'	—	0.02 U'	—	0.02 U'	—	—	0.02 U'	0.02 U'

Notes:

Association of Healthcare Internal Auditors = AHIA
 AHIA Odor Nuisance Level = 5x AHIA Odor Detection Threshold.
 California Ambient Air Quality Standard = CAAQS
 CAAQS =1-hour average odor ambient air standard
 ppmv = parts per million volume.
 µg/m³ = Micrograms per cubic meter.
 Grey highlighted cells indicates value exceeds the applicable criteria or screening level.
 NS = No standard currently established.
Bold = Detected concentration.
 When the applicable state standard applies to mixed isomers and the laboratory reports individual isomers, the total standard is listed for each isomer.
 U= Not detected (value shown is laboratory reporting limit).
 U'= Not detected, laboratory reporting limit exceeds the applicable screening level.
 J= Estimated value.
 A01= Detection and quantitation limits are raised due to sample dilution.
 L07 = The Laboratory Control Sample (LCS) recovery is not within laboratory established control limits.

APPENDICES

- A. Site-Specific HASP
- B. Analytical Laboratory Reports
- C. Human Health Risk Assessment

APPENDIX A

Site Specific HASP

Site-Specific Health and Safety Plan

29201 Henry Mayo Dr
Castaic, California

October 27, 2023

Prepared for:

Los Angeles County Public Works

Prepared by:

Roux Associates, Inc.

5150 E. Pacific Coast Highway, Suite 450
Long Beach, California, 90804

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2. Site Plan with Emergency Muster Area
3. Route to Hospital and Urgent Care Facilities

Appendices

- A. Job Safety Analysis (JSA) Forms
- B. Safety Data Sheets (SDSs) for Chemicals Used

- C. Roux COVID-19 Interim Health & Safety Guidance
- D. Roux Injury Illness Prevention Program
- E. Roux Heat Illness Prevention Program
- F. Roux Personal Protective Equipment Management Program
- G. Roux Heavy Equipment Exclusion Zone Management Program
- H. Roux Subsurface Utility Clearance Management Program

Site-Specific Emergency Information

Emergency Phone Numbers

Most emergency services can be obtained by calling **911**. Where 911 service is not available, use the telephone numbers provided in the below table. The following is a master emergency phone list for use by the project management personnel. A more condensed version of the emergency numbers listed below will be posted throughout project work areas. Emergencies encountered on the Site will be responded to by a combination of off-site emergency services and on-site personnel.

Emergency Contact Information			
Site Personnel			
Title	Contact	Telephone	
Operations Manager (OM)	Jaydeep Purandare	(949)-244-6505	
Project Principal (PP)	Chris Rose	(949)-413-2748	
Project Manager (PM)	April McGuire	(916)-539-1546	
Site Supervisor (SS) and Site Health and Site Safety Officer (SHSO)	Peter Grimmatt/Cassie Walker	(916)-747-3111/(818)-416-0474	
Office Health and Safety Manager (OHSM) and Regional Health and Safety Manager (RHSM)	Ali Rice	(801)-528-2605	
Corporate Health and Safety Director (CHSD)	Brian Hobbs	631-807-0193 (m)	
WorkCare (Formally AllOne Health)	Occupational Health Care Management Provider	800-350-4511	
Client Emergency Contact			
AtmAA Contact	Joe Lusker	818-223-3277	
Pace Contact	Brianna Schutte	661-852-4272	
Outside Assistance			
Agency	Contact	Telephone	Address/Location
Ambulance/emergency medical services (EMS)	American Medical Response	(877)-244-4890	24907 Ave Tibbitts, Santa Clarita, CA 91355
Police	Santa Clarita Valley Sheriffs Station	(661)-260-4000	26201 Golden Valley Road, Santa Clarita, CA 91350
Fire	LA County Fire Department Station 143	(661)-257-5009	28580 Hasley Canyon Road, Castaic, CA 91384
Site Address	29201 Henry Mayo Dr, Castaic, CA 91384		

Route to Henry Mayo Newhall Hospital

← from Chiquita Canyon Landfill, 29201 Henry Mayo ...
to Henry Mayo Newhall Hospital, 23845 McBean ...

13 min (8.2 miles)
via CA-126 E and I-5 S
Fastest route now due to traffic conditions

Chiquita Canyon Landfill
29201 Henry Mayo Dr, Castaic, CA 91384

- ↑ Head south toward CA-126 E
▲ Partial restricted usage road
50 sec (0.1 mi)
- > Continue on CA-126 E. Take I-5 S to McBean Pkwy/Stevenson Ranch Pkwy. Take exit 168 from I-5 S
7 min (6.8 mi)
- > Follow McBean Pkwy to your destination in Santa Clarita
5 min (1.3 mi)

Henry Mayo Newhall Hospital
23845 McBean Pkwy, Valencia, CA 91355

Route Concentra Urgent Care

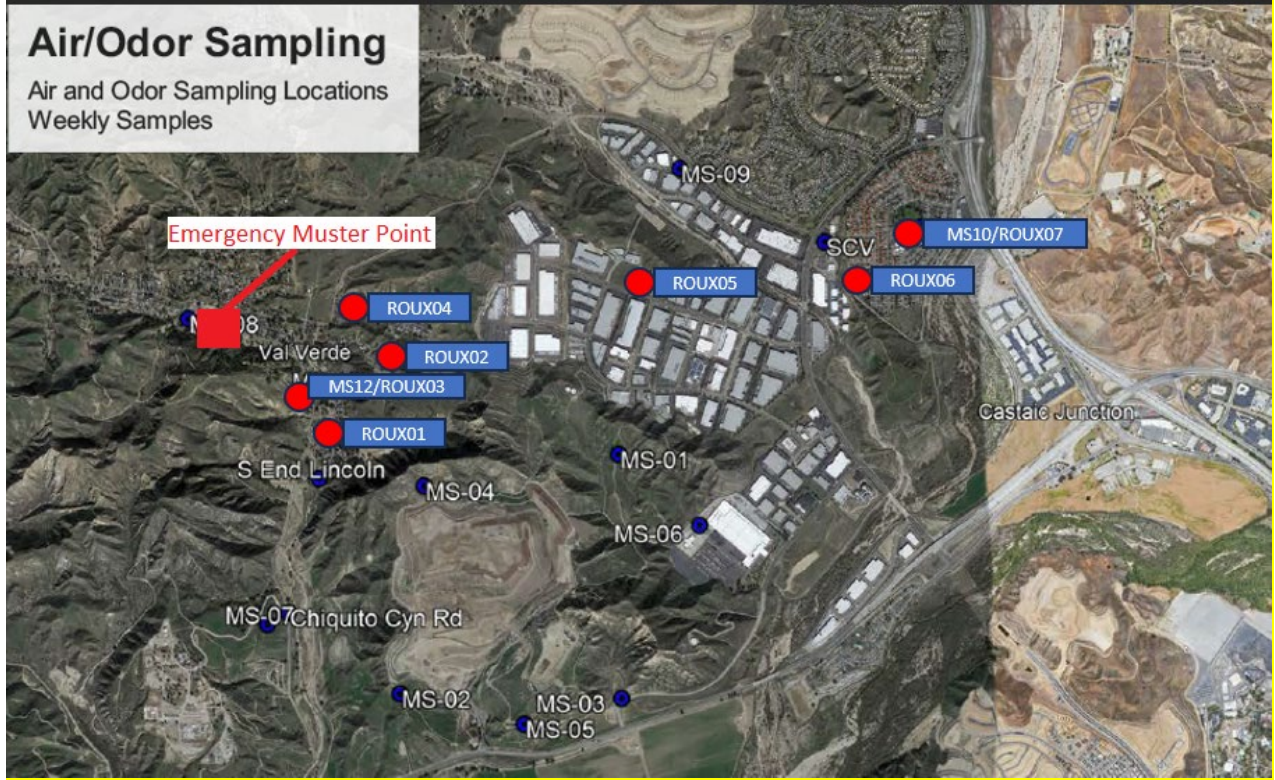
← from Chiquita Canyon Landfill, 29201 Henry Mayo ...
to Concentra Urgent Care, 25733 Rye Canyon Rd, ...

8 min (4.5 miles)
via CA-126 E
Fastest route now due to traffic conditions

Chiquita Canyon Landfill
29201 Henry Mayo Dr, Castaic, CA 91384

- ↑ Head south toward CA-126 E
▲ Partial restricted usage road
0.1 mi
- ↶ Turn left at the 1st cross street onto CA-126 E
2.6 mi
- ↑ Continue onto Newhall Ranch Rd
0.5 mi
- ↷ Turn right onto Vanderbilt Way
0.2 mi
- ↶ Vanderbilt Way turns left and becomes Avenue Stanford
1.0 mi
- ↷ Turn right
443 ft
- ↶ Turn left
72 ft
Destination will be on the left

Concentra Urgent Care
25733 Rye Canyon Rd, Valencia, CA 91355



Emergency muster point is located at the Val Verde Park located at 30300 Arlington St, Castaic, CA 91384.

1. Introduction

This Site-specific Health and Safety Plan (HASP) has been prepared by Roux Associates, Inc. (Roux) for use during the ambient air sampling at the Chiquita Canyon Landfill, located at 29201 Henry Mayo Dr, Castaic, CA 91384 (Site; **Figure 1**). This HASP was prepared in general accordance with the requirements of the California Code of Regulations, Title 8 (T8 CCR), section 5192, Hazardous Waste Operations and Emergency Response, commonly referred to as the HAZWOPER Standard. In accordance with the HAZWOPER Standard and T8 CCR Subchapter 4, Construction Safety Orders, this Site-specific HASP was prepared to address the safety and health hazards and concerns associated with the ambient air sampling. The HASP was also prepared to provide requirements and procedures for the protection of Roux employees, subcontractor personnel, government oversight personnel, Site personnel, and the general public. It addresses client- and Site-specific requirements for health and safety. Additionally, subcontractors may be required to submit their own HASP as it relates to their specific work activities and will be kept onsite during such work.

Implementation of this HASP is the joint responsibility of the Project Manager (PM), the Site Health and Safety Officer (SHSO), and all field staff, with assistance from the Project Principal (PP), Office Health and Safety Manager (OHSM), Regional Health and Safety Manager (RHSM), and Corporate Health and Safety Director (CHSD) as needed. The PM for this project is April McGuire. The Site Supervisor (SS) and Site Health and Safety Officer (SHSO) is Peter Grimmett/Cassie Walker.

This HASP will be introduced to, reviewed, and signed by all Roux personnel through a formal training session prior to commencing work. A copy of the HASP will be kept at the Site at all times. The Roux SHSO or PM will be responsible for posting any changes, amendments, memos, etc. to the HASP. Any revisions to this HASP will be signed by appropriate personnel, which can include Roux's PP, RHSM, CHSD, and SS. Any changes will be announced to all workers at the next safety meeting.

1.1 Roles and Responsibilities

Overall Roles and Responsibilities (R&Rs) of Roux personnel are provided in Roux's Policies and Procedures Manual. Only those R&Rs that apply specifically to HASP requirements are listed below.

Project Manager (PM)

The PM has the responsibility and authority to direct all work operations. The PM coordinates safety and health functions with the SHSO, has the authority to oversee and monitor the performance of the SHSO, and bears ultimate responsibility for the proper implementation of this HASP. The specific duties of the PM are:

- Preparing and coordinating the Site work plan;
- Providing Site supervisor(s) with work assignments and overseeing their performance;
- Coordinating safety and health efforts with the SHSO;
- Ensuring effective emergency response through coordination with the SHSO; and
- Serving as the primary Site liaison with public agencies and officials, and Site contractors and subcontractors.

Site Health and Safety Officer (SHSO)

The SHSO has the full responsibility and authority to develop and implement this HASP, and to verify compliance with it. The SHSO reports to the PM. The SHSO is on Site during all work operations and has the authority to halt Site work if unsafe conditions are detected or revealed. The specific responsibilities of the SHSO include:

- Managing the safety and health functions on the Site;
- Serving as the Site's point of contact for safety and health matters;
- Ensuring Site monitoring, worker training, and effective selection and use of personal protective equipment (PPE);
- Assessing Site conditions for unsafe acts and conditions, and providing corrective action;
- Assisting in the preparation and review of this HASP;
- Maintaining effective safety and health records as described in this HASP; and
- Coordinating with the SS and others as necessary for Site safety and health efforts.

Site Supervisor (SS)

The SS is responsible for field operations and reports to the PM. The SS ensures the implementation of the HASP requirements and procedures in the field. The specific responsibilities of the SS include:

- Executing the work plan and schedule as detailed by the PM;
- Coordination with the SHSO on matters of safety and health; and
- Ensuring Site work compliance with the requirements of this HASP.

Employees

All Roux employees are responsible for reading and following all provisions of the Corporate Health and Safety Manual, including this HASP. Employees report to the SS at the project Site. Each employee is also responsible for the following:

- Wearing all appropriate PPE as outlined within this HASP;
- Attending all safety meetings;
- Inspecting tools and equipment prior to use, and taking any defective tools or equipment out of service;
- Appropriately documenting field events as they occur within a logbook or equivalent;
- Properly operating machinery and/or equipment only if trained to do so;
- Stopping work operations if unsafe conditions exist;
- Identifying and mitigating hazards when observed;
- Reporting all incidents and near misses to the Roux SHSO and SS immediately; and
- Knowing where emergency equipment is located (e.g. first aid kit, fire extinguisher).

Subcontractors and Visitors

Subcontractors and visitors are responsible for complying with the same health and safety requirements. It is the responsibility of all to make sure subcontractors and visitors comply and uphold the HASP. Subcontractors

and visitors have the following additional responsibilities:

- Designating a qualified safety representative for the project that can make the necessary changes in work practices, as necessary;
- Attending all safety meetings while participating in Roux Site work activities;
- Reporting all incidents and near misses to Roux SHSO and SS immediately;
- Conducting initial and periodic equipment inspections in accordance with manufacturer and regulatory guidelines; and
- Providing copies of all Safety Data Sheets (SDS) to Roux SHSO for materials brought to the Site.

2. Background

Relevant background information is provided below, including a general description of the Site; a brief review of the Site's history with respect to hazardous material use, handling, and/or storage; and a review of known and potential releases of hazardous substances at the Site.

Since 2017 the Site has been operated as a municipal garbage landfill for use by private and public parties. Beginning in 2023 residents in the vicinity of the Site have reported odors as a result of landfill operations. At least 2,100 complaints have been filed with SCAQMD.

3. Scope of Work

Community air samples will be collected at seven locations throughout the Site and background air samples will be collected at two locations outside the Site. The locations of the community air samples were selected based on the areas with the most documented odor complaints as well as data verification for samples collected by SCS. The locations of the background air samples will be determined after an initial Site reconnaissance. The protocols and procedures for the air sampling will follow the October 2011, California Environmental Protection Agency (Cal/EPA) and Department of Toxic Substances Control (DTSC), *Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air* (Vapor Intrusion Guidance).

Prior to air sampling, Roux will complete a reconnaissance around the sampling locations. This will ensure appropriate citing of sampling locations in public lands/spaces such as sidewalks, public landscaped areas, and parks. Thus, no access agreement will be necessary to perform sampling activities. Additionally, Roux will make visual observations and document any conditions that could impact the community air and/or background air samples.

The proposed air sampling will occur every-other-day over a period of seven weeks, for a total of 23 sampling events (beginning October 30, 2023). During each sampling event, 11 air samples will be collected. These samples include seven community air samples and one duplicate as well as two background air samples and one duplicate. The duplicate air samples are for QA purposes, with one duplicate sample be collected per every ten samples (10%). For this air sampling, Roux proposes to collect at least one duplicate sample per sample type (i.e., community air versus background air).

The 11 air samples will be collected at a height of 3 to 5 feet over a 24-hour period. The Vapor Intrusion Guidance states that a minimum of three ambient air samples should be collected with each indoor air sampling event; however, since the air samples are technically ambient air samples (not indoor air samples) and due to the large number of sampling events, two background air samples are proposed per day to establish the background air conditions.

For the VOC analyses, the community air and background air samples will be collected in individually certified 6-liter SUMMA® canisters with 24-hour flow controllers, labeled, logged on a chain of custody form, and transported to a California certified laboratory for analysis. The air samples collected (total of 253 air samples) will be analyzed for VOCs via United States EPA (USEPA) Method TO-15 Selective Ion Monitoring (SIM). For the sulfur compound analyses, the community air and background air samples will be collected in 5-liter Tedlar® bags, labeled, logged on a chain of custody form, and transported to a California certified laboratory for analysis. The air samples collected (total of 77 air samples) will be analyzed for sulfur compounds via SCAQMD Method 307.91.

If there are any changes with the scope, a revision of the HASP will be required to address any new hazards.

4. Site Control

This Site control program is designed to reduce the spread of hazardous substances from contaminated areas to clean areas, to identify and isolate contaminated areas of the Site, to facilitate emergency evacuation and medical care, if required, to prevent unauthorized entry to the Site, and to deter vandalism and theft.

4.1 Site Map

A map of this Site showing Site boundaries and points of entry and exit is provided in **Figure 2**.

4.2 Site Access

Access to the work areas at the Site is restricted to reduce the potential for exposure to its safety and health hazards. During hours of Site operation, Site entry and exit is authorized only at the points identified in **Figure 2**. Entry and exit at these points is controlled by the following: gate with security guard. When the Site is not operating, access to the Site is controlled by the following: gate with security guard.

4.3 Buddy System

While working in the Exclusion Zone, Site workers use the buddy system. The buddy system means that personnel work in pairs and stay in close visual contact to be able to observe one another and summon rapid assistance in case of an emergency. The responsibilities of workers using the buddy system include:

- Remaining in close visual contact with partner;
- Providing partner with assistance as needed or requested;
- Observing partner for signs of heat stress, chemical overexposure or other difficulties;
- Periodically checking the integrity of partner's PPE; and
- Notifying the SS or other site personnel if emergency assistance is needed.

4.4 Site Communications

The following communication equipment is used to support on-site communication: Cellphones, hand-signals.

As applicable, hand signals will be used according to the following:

Hand Signals

SIGNAL	MEANING
Hand gripping throat	Out of air, can't breathe
Grip partner's wrist	Leave area immediately
Hands on top of head	Need assistance
Thumbs up	I'm all right, okay
Thumbs down	No, negative

A current list of emergency contact numbers is included in the Site-Specific Emergency Information at the beginning of this HASP.

4.5 Site Work Zones

“The SOW does not require the implementation of work zones; however, should the need arise, this section provides details for the proper execution of work zones at this Site.”

The Site is divided into three (3) major zones, described below. These zones are characterized by the likely presence or absence of biological, chemical, or physical hazards and the activities performed within them. Zone boundaries are clearly marked at all times and the flow of personnel among the zones is controlled. The work areas are monitored and adjusted accordingly for changing conditions in order to protect personnel and clean areas. Whenever boundaries are adjusted, zone markings are also changed, and workers are immediately notified of the change.

Exclusion Zone

The area where contamination exists is the Exclusion Zone (EZ). All areas where excavation and handling of contaminated materials take place are considered part of the EZ. This zone will be clearly delineated by chain link fencing, caution tape, cones, or other effective barriers, as necessary. The zone delineation markings may be opened in areas for varying lengths of time to accommodate equipment operation or specific construction activities. The SHSO may establish more than one EZ where different levels of protection may be employed or where different hazards exist. Personnel are not allowed in the EZ without:

- A buddy (co-worker);
- Required minimum level PPE;
- Medical authorization;
- Training certification; and,
- Requirement to be in the zone.

Contamination Reduction Zone

A Contamination Reduction Zone (CRZ) is established between the exclusion zone and the support zone. The CRZ contains the Contamination Reduction Corridor (CRC) and provides an area for decontamination of personnel and equipment. The CRZ will be used for general Site entry and egress in addition to access for heavy equipment and emergency support services. Personnel are not allowed in the CRZ without:

- A buddy (co-worker);
- Appropriate PPE;
- Medical authorization;
- Training certification; and,
- Requirement to be in the zone.

Support Zone

The Support Zone (SZ) is an uncontaminated area that will be the field support area for the Site operations. Appropriate sanitary facilities and safety equipment will be located in this zone. Potentially contaminated

personnel or materials are not allowed in this zone. The only exception will be appropriately packaged/decontaminated and labeled samples.

5. Job Hazard Evaluation

Roux's work at the Site is expected to entail a variety of physical, chemical, and biological hazards, all of which must be sufficiently managed to allow the work to be performed safely. Some of the hazards are Site-specific (i.e., they are associated with the nature, physical characteristics, and/or routine operation of the Site itself), while others are activity-specific (i.e., they are associated with [or arise from] the particular activity being performed). The various hazards can be grouped into the following categories:

- **Caught/Crushed** – the potential to become caught in, under, between, or by an object or parts of an object, such as equipment with parts that open and close or move up and down (“pinch points”) or equipment that rotates, and the accompanying potential to have body parts cut, mangled, or crushed thereby.
- **Contact** – the potential to be struck by or against moving or stationary objects that can cause physical injury, such as heavy machinery, overhead piping, moving vehicles, falling objects, and equipment (including tools and hand-held equipment) or infrastructure with the ability to cut or impale.
- **Energy Sources** – the potential for bodily harm associated with energy sources, most notably electricity, but also including latent energy sources such as compressed air and equipment under tension (which when released could cause injurious contact or a fall).
- **Ergonomics** – the potential for musculoskeletal injury associated with lifting/carrying, pushing/pulling, bending, reaching, and other physical activity attributable to poor body position/mechanics, repetitive motion, and/or vibration.
- **Exposure** – the potential for injury/illness due to physical, chemical, or biological exposures in the work environment, including but not limited to temperature extremes, solar radiation, and noise (physical), chemical splashes and hazardous atmospheres (chemical), and animal/insect bites and poisonous plants (biological).
- **Falls** – the potential to slip or trip and thus fall or drop a load, resulting in bodily injury to oneself or others.

The foregoing is intended to provide Roux employees with a general awareness of the hazards involved with Site work. A more detailed review of the potential hazards associated with each specific activity planned for the Site (or ongoing activity, as the case may be) is provided in the activity-specific Job Safety Analysis (JSA) forms in **Appendix A**. As can be seen in the JSA forms, the hazards are identified per the above categories, and specific measures designed to mitigate/manage those hazards are also identified. In preparing the JSA forms, all categories of hazards were considered, and all anticipated potential hazards were identified to the extent possible based on the experience of the personnel preparing and reviewing the JSA forms. However, there is always the possibility for an unanticipated hazard to arise, potentially as conditions change over the course of the workday. Roux personnel must maintain a continual awareness of potential hazards in the work zone, regardless of whether or not the hazard is identified in the attached JSA forms. JSAs shall be reviewed and updated periodically with any changing conditions or changes in previously anticipated Site work requirements. Particular attention should be paid to hazards associated with exposure to hazardous substances (see **Table 1** for a listing of the hazardous substances most likely to be encountered in environmental media at the Site) and to Site personnel being located “in the line of fire” with respect to moving equipment, pinch points, and latent energy (e.g., being located or having body parts located within the swing radius of an excavator, between two sections of pipe being connected, below a piece of suspended equipment, or adjacent to a compressed air line).

5.1 Hazard Communication and Overall Site Information Program

The information in the JSAs and SDSs is made available to all employees and subcontractors who could be affected by it prior to the time they begin their work activities.

Modifications to JSAs are communicated during routine pre-work briefings, and periodically updated as needed in the HASP. SDSs will be maintained by the SHSO/SS for new chemicals brought on-site as needed. Copies of SDSs can be found in **Appendix B**.

5.2 Noise

Noise is associated with the operation of heavy equipment, power tools, pumps, and generators. Noise is also a potential hazard when working near operating equipment such as excavators, drill rig or pole drivers. High noise (i.e., < 85 dBA) operations may be evaluated by the SHSO utilizing a type 2 handheld sound level meter (SLM) operating on the "A"-weighted scale with slow response because this scale most closely resembles human response to noise and complies with Cal/OSHA T8 CCR Group 15, Article 105 requirements. Roux requires hearing protection in areas with noise exposure greater than 85 dBA. Double hearing protection (ear plugs and earmuffs) are required in areas where the noise exposure is more than 95 dBA. Noise exposure will be controlled by hearing protection as described above or by maintaining set-backs from high-noise equipment, as warranted. Personnel handling heavy equipment and using power tools that produce noise levels exceeding those described above should don hearing protection appropriate (Noise Reduction Rating (NRR) level of hearing protection). Appropriate hearing protection will be evaluated by the SHSO as necessary in consultation with the OHSM and CHSD.

5.3 Excavations and Trenching

All trenching and excavation work activities will comply with Cal/OSHA T8 CCR 1540-1541.1. Regional Notification Centers (i.e., Underground Services Alert) shall be notified at least two working days prior to the start of any digging or excavation work per Cal/OSHA T8 CCR 1541(b)(2). Personnel responsible for excavation activities will be trained per Cal/OSHA T8 CCR 1541 and Government Code Sections 4216 through 4216.9. Additionally, for trenches 4 feet or deeper, where employees will enter, the trench needs to have a stairway, ladder or other safe means of egress, and located so that employees don't have to travel farther than 25 feet horizontally. Where employees will enter trenches greater than 5 feet deep, the trench must have some type of protective system or sloped sidewalls appropriately to prevent cave-ins. In addition, a Cal/OSHA permit is required if employees enter an excavation 5 feet or more in depth per T8 CCR 341(d)(5).

The SHSO or other responsible Roux personnel will be present on-Site during all Roux contracted excavation and backfill operations and will supplement health and safety monitoring conducted by Subcontractor air quality screening to ensure that appropriate levels of protection and safety procedures are utilized. The proximity of chemical, water, sewer, and electrical lines will be identified by Roux and/or their subcontractor before any subsurface activity or sampling is attempted. Prior to any excavation activities, trees, shrubbery, and other objects that can potentially pose as a hazard during excavation will be supported or removed from the excavation area. The following safe work practices will be implemented during this task.

- The proximity of chemical, water, sewer, and electrical lines will be identified by a facility representative prior to beginning any subsurface activity;
- At the start of every day, a competent person will inspect excavations to evaluate if the area is stable and safe to enter. Inspections will be conducted as needed throughout the excavation operations. If

deemed necessary, a competent person may also conduct inspections after rainfall or any other event that can potentially affect the integrity of the excavation. Employees will not enter excavations where water has accumulated until protective measures have been implemented.

- Prior to entering excavations greater than 4 feet in depth, air monitoring for oxygen and hazardous atmospheres must be conducted to assure atmospheric conditions are within normal levels described in Section 8.6.1. Continuous air monitoring with a standard multi-gas detector (O₂, LEL%, CO, H₂S) shall be used during the course of work within an excavation; if action limits are reached workers shall safely exit the excavation. Upgrades to worker protection should be evaluated with the SHSO and PP in consultation with the CHSD. Emergency rescue equipment, such as breathing apparatuses and safety harnesses connected to an extraction device, will be readily available in the event of hazardous atmospheric conditions;
- While earthmoving, stay out of the excavator's delineated heavy equipment exclusion zone and away from the excavation sides where there is potential for cave in (within excavations that are 6 feet or more in depth, a delineated perimeter 6 feet away from the excavated edge is required);
- During loading and unloading operations, stand away from haul trucks and other vehicles to avoid contact with any falling loads; and
- Traffic cones, caution tape, or other barriers will be set up around the perimeter of the excavation when employees are working along the excavation edge and for any excavation that will be left open overnight or unattended for more than two days.

Maximum Allowable Slopes

Soil or Rock Type	Maximum Allowable Slopes (H:V) ¹ for Excavations Less Than 20 Feet Deep ³
Stable Rock	Vertical (90°)
Type A ²	³ / ₄ : 1 (53°)
Type B	1 : 1 (45°)
Type C	1 ¹ / ₂ : 1 (34°)

Cal/OSHA T8 CCR 1541.1 Table B-1

Notes:

- ¹ Numbers shown in parentheses next to maximum allowable slopes are angles expressed in degrees from the horizontal. Angles have been rounded off.
- ² A short-term maximum allowable slope of ¹/₂H : 1V (63°) is allowed in excavations in Type A soil that are 12 feet (3.67 meters) or less in depth. Short-term maximum allowable slopes for excavations greater than 12 feet (3.67 meters) in depth shall be ³/₄H : 1V (53°).
- ³ Sloping or benching for excavations greater than 20 feet deep shall be designed and stamped by a registered professional engineer.

Proper stockpiling (i.e., 2 feet minimum distance from the excavation edge), containment, transport, storage, and disposal practices will be utilized and is dependent upon the potential type and amount of waste generated during operations. The location of safety equipment and evacuation procedures will be established prior to initiation of operations according to this HASP.

5.4 Slip, Trip, and Fall Hazards

Slip, trip, and fall hazards are addressed under Cal/OSHA T8 CCR 3273, Working Areas. Slip, trip, and fall hazards may include, but are not limited to, general slip and trip hazards associated with uneven ground, possible debris, wet grass, and equipment. Prior to work, walking paths will be assessed for solid footings, any ground penetrations that may cause a tripping hazard will be appropriately marked, and other areas will be noted and discussed with the field team.

Personnel shall be aware of their surroundings and footings at all time, and all accommodations should be made for proper housekeeping and organized equipment placement at the Site, where possible, to help prevent any slip, trip, and fall-related incidents. All tools and materials should be appropriately stored when not in use and placed in appropriate storage containers.

5.5 Biological Hazards

Biological hazards that may potentially be present at a Site, include poisonous plants, insects (ticks, spiders, bees), animals (snakes, dogs), fungal infections (Valley Fever), etc. Information on biological hazards can be found within Roux's Biological Hazard Awareness Management Program located within Roux's Corporate Health and Safety Manual. There is also the potential for transmission and/or exposure to SARS-CoV-2, the virus that causes COVID-19. Prior to beginning work, on-Site protocols shall be established by the project team, including subcontractors, in accordance with federal, state, county, city, and/or other guidance, as applicable, and consistent with Roux's COVID-19 Interim Health and Safety Guidance, which can be found in **Appendix C**.

6. Emergency Response Plan

This emergency response plan details actions to be taken in the event of Site emergencies. The PM and SHSO are responsible for the implementation of emergency response procedures on-Site. The SHSO/PM provides specific direction for emergency action based upon information available regarding the incident and response capabilities and initiates emergency procedures and notification of appropriate authorities. In the event of an emergency, Site personnel are evacuated and do not participate in emergency response activities, response is facilitated through external emergency services.

6.1 Emergency Response

The SHSO, after investigating the incident and relevant information, shall determine the level of response required for containment, rescue and medical care. Limited on-Site emergency response activities could occur; therefore, the SHSO is responsible for notifying external emergency response agencies during and/or after such activities have taken place. The SHSO provides relevant information to the responding organizations, including but not limited to the hazards associated with the emergency incident, potential containment problems, and missing Site personnel.

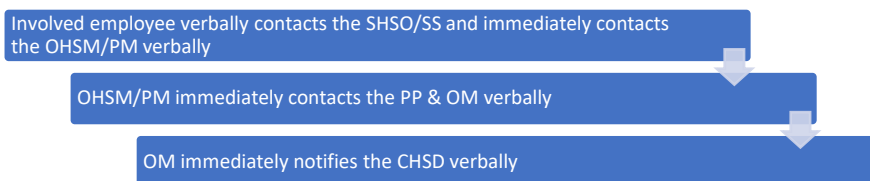
6.2 Emergency Alerting and Evacuation

If evacuation notice is given, Site workers leave the worksite, if possible, by way of the nearest exit. Appropriate primary and alternate evacuation routes and assembly areas have been identified and are shown on the Site Plan with Emergency Muster Area (**Figure 2**). The routes and assembly area will be determined by conditions at the time of the evacuation including but not limited to, wind direction, the location of the hazard source, and other factors as determined by SHSO/PM.

Personnel exiting the Site gather at a designated assembly point. To determine that everyone has successfully exited the Site, personnel will be accounted for at the assembly point. If any worker cannot be accounted for, notification is given to the SHSO, PM, and any arriving response authorities so that appropriate action can be initiated. Subcontractors on this Site have coordinated their emergency response plans to ensure that these plans are compatible with these procedures, that potential emergencies are recognized, communication systems are clearly understood, and that evacuation routes are accessible to all personnel relying upon them.

6.3 Emergency Medical Treatment and First Aid

In the event of a work-related injury or illness, employees are required to follow the procedures outlined below. All work-place injury and illness situations require Roux's Project and Corporate Management Team to be notified when an injury or illness incident occurs, and communication with the contracted Occupational Health Care Management Provider, WorkCare, Inc. (formally AllOne Health) , must also be initiated as necessary. The Injury/Illness Notification Flowchart is provided below and within Roux's Incident Investigation and Reporting program included within Roux's Corporate Health and Safety Manual.



If on-site personnel require any medical treatment, the following steps will be taken:

- a. Notify Roux's Project and Corporate Management Team for any work-related injury and/or illness occurrence and communicate with the contracted Occupational Health Care Management Provider, WorkCare, immediately following the notifications provided above.
- b. Based on discussions with the Project Team, Corporate Management and the WorkCare evaluation, if medical attention beyond onsite first aid is warranted, transport the injured / ill person (IP) to the Urgent Care Center, or notify the Fire Department or Ambulance Emergency service and request an ambulance or transport the victim to the hospital, and continue communications with Corporate Management Team. An Urgent Care/Hospital Route map with location to Henry Mayo Newall Hospital/Concentra Urgent Care is included as **Figures 3 and 4**.
- c. Decontaminate the exposed area or person to the extent possible prior to administration of first aid or movement to medical or emergency facilities.
- d. First aid medical support will be provided by on-Site personnel trained and certified in First Aid, Cardio Pulmonary Resuscitation (CPR), Automatic External Defibrillation (AED), and Blood-Borne Pathogens (BBP) Awareness, until relieved by emergency medical services (EMS).
- e. The SHSO and PM will perform a Loss Investigation (LI) and the Project Team will complete the final Loss Report. If a Roux employee is involved in a vehicular incident, the employee must also complete the Acord Automobile Loss Notice. These report templates are available as a part of the Roux Injury Illness Prevention Program (IIPP) available in **Appendix D**.

7. Environmental Conditions and Response

7.1 Adverse Weather Conditions

In the event of adverse weather conditions, the SHSO or project principal will determine if work can continue without jeopardizing the health and safety of field workers. Some of the items related to adverse weather conditions to be considered prior to determining if work should continue include:

- Potential for heat stress and heat-related injuries;
- Potential for cold stress and cold-related injuries;
- Treacherous weather-related conditions. If wind speed is greater than 15 mph averaged over a 15-minute period or wind gusts over 25 mph, earthmoving operations will be ceased
- Limited visibility; and,
- Electrical storm potential.

Site activities will be limited to daylight hours and acceptable weather conditions. Inclement working conditions may include heavy rain, fog, high winds, and lightning. The SHSO and/or PM shall observe daily weather reports and evacuate, if necessary, in case of inclement weather conditions.

7.2 Adverse Air Quality

The air quality at the Site may be impacted from wildfires in the region or beyond. This is especially true during the wildfire season that is typically from mid-May to mid-October in Northern California and in Southern California through mid-November. The wildfire season peak usually occurs between July and November, when hot, dry winds are most frequent. During wildfire season, there is the potential for breathing in fine particles associated with wildfire smoke. This particulate matter can result in irritation to the lungs and potentially lead to serious complications, such as reduced lung function, bronchitis, worsening asthma, etc. Title 8, Section 5141.1 provides guidelines during wildfires that are based on the Air Quality Index (AQI) for particulate matter (PM) 2.5, which is the smallest and usually most harmful particulate matter (2.5 micrometers or smaller). An AQI over 100 is unhealthy for sensitive people and an AQI over 150 is unhealthy for everyone.

Air Quality Index (AQI), Conversion for PM 2.5, and Level of Health Concern ^[1]		
PM 2.5 Concentration	AQI	Levels of Health Concern
0 to 12	0 to 50	Good
12.1 to 35.4	51 to 100	Moderate
35.5 to 55.4	101 to 150	Unhealthy for Sensitive Groups
55.5 to 150.4	151 to 200	Unhealthy
150.5 to 250.4	201 to 300	Very Unhealthy
250.5 to 500.4	301 to 500	Hazardous

[1] California Code of Regulations Title 8, Section 5141.1 Appendix A (https://www.dir.ca.gov/title8/5141_1a.html).

Obtain the current AQI for the Site area by going online to <https://www.airnow.gov/> and enter the zip code of the location where you will be working. AQI can also be found at the U.S. Forest Service online at <https://tools.airfire.org/> or a local air district online at <https://ww3.arb.ca.gov/capcoa/dismap.htm>.

If the current or forecasted AQI for PM 2.5 is greater than 500, then the fieldwork shall be postponed. If the current or forecasted AQI for PM 2.5 is equal to or greater than 151, but does not exceed 500, the project team should evaluate whether fieldwork should be postponed. In the event fieldwork cannot be postponed, respiratory protection shall be provided to all employees for voluntary use. Roux shall provide National Institute for Occupational Safety and Health (NIOSH) approved N-95 filtering facepiece respirators. Training regarding voluntary use of respirators shall be in accordance with Title 8, Section 5141.1 Appendix B.

Additional protective measures may be instituted in the field which includes:

- taking breaks within an enclosed structure where the air is filtered such as a vehicle,
- increasing rest times and frequency, and
- reducing the physical intensity of the work those lowering breathing/heart rates.

It is important to remember that not everyone will respond the same to varying AQI levels. Should field staff notice the air quality getting worse or if they are suffering from any symptoms due to the air quality, the SSOH will notify the Project Manager, Project Principal, and OSHM immediately.

7.3 Electrical Storm Guidelines

In the event that lightning and/or thunder are observed while working on Site, all on-Site activities shall stop, and personnel shall seek proper shelter (e.g., substantial building, enclosed vehicle, etc.). Work shall not resume until the threat of lightning has subsided and no lightning or thunder has been observed for 30 minutes. If the possibility of lightning is forecast for the day, advise the on-Site personnel on the risks and proper procedure at the pre-work safety briefing. Continuously monitor for changing weather conditions and allow enough time to properly stop work if lightning is forecast.

7.4 Earthquake Procedures

In the event that an earthquake occurs while working on Site, the following section provides procedures to be followed to prepare for and assist workers during and after an earthquake at the Site. While very intense earthquakes are rare, less intense earthquakes can also be dangerous, resulting in utility line damage/failure, fires, structural failures, and slope failures.

7.4.1 Before an Earthquake

- Determine in advance, potential structural hazards at the Site, alternate exits and stairwells from the work location(s), and the route(s) to follow to reach the exits in case an evacuation is necessary.
- Consider your supply of food and water on hand and plan accordingly.
- Keep a flashlight and portable radio and check batteries periodically.
- Have a fully stocked First Aid kit, plus emergency blankets (if applicable).

7.4.2 During an Earthquake

While Working in All Areas:

- Remain calm and do not panic.
- Stop work. Have subcontractors shut down heavy equipment (if in operation).
- If subcontractor employees are working in a trench and/or excavation, have them exit the trench/excavation immediately.

Do not use or do any activity that could be a source of ignition (smoking, cutting, or welding).

While Working Inside Buildings or Structures:

- **Drop:** Drop down to the floor
- **Cover:** Take cover under a sturdy desk, table, or other furniture. If that is not possible, seek cover against an interior wall and protect your head and neck with your arms. Avoid danger spots located near windows, hanging objects, mirrors, or tall furniture.
- **Hold:** If you take cover under a sturdy piece of furniture, hold on to it and be prepared to move with it. Hold the position until the shaking stops and it is safe to move.
- DO NOT USE ELEVATORS. WALK, DO NOT RUN, and keep noise to a minimum. DO NOT PUSH or crowd. Use handrails in stairwells and move to the inside (most continuous handrail) if you encounter emergency personnel. Move to the designated muster point area, unless otherwise instructed. Check doors for heat before opening.
- Assist non-ambulatory, visually-impaired, and hearing-impaired people. Be prepared for aftershocks. If you are outside, do not return to the building until it has been surveyed for safe access routes by a qualified professional.

While Working Outside:

- If in a vehicle, stay in the vehicle until the earthquake is over.
- If possible, move away from structures or equipment that could fall or roll (e.g., piping or staged equipment) on top of you.

7.4.3 After an Earthquake

- Prepare for aftershocks. Stay out of or away from severely damaged buildings and/or job trailers (if present). Do not enter any buildings/trailers until their structural integrity has been evaluated.
- Check for injured or trapped persons and treat as necessary. DO NOT MOVE VICTIMS UNLESS ABSOLUTELY NECESSARY.
- Determine if it is safe to stay in your location or if you may need to move to another area (stairwells may not be safe).
- Meet at muster point location for a head count, designated by the SHSO. Check for damage and potentially dangerous areas if aftershocks occur.
- Check vehicles, equipment, and buildings/trailers (if present) for any obvious damage.
- Be prepared to fight small fires before they spread.
- Staff may evacuate if they wish; however, unless there is fire or smoke, all staff shall not give evacuation instructions to other staff members. It is usually best for people to remain where they are until the media reports are evaluated. Check utility lines (if present) for damage. Switch off power, water, and gas until a utility official has inspected the buildings/trailers and operational areas and determined it safe.

- If driving, watch carefully for hazards created by the earthquake (undermined roads, weak bridges/overpasses, fallen power lines or poles).

While Working Inside Buildings or Structures:

- Limit hardwired telephone use. Leave hardwired phones for emergency personnel as much as possible. Rely on information provided by emergency personnel or staff.
- Limit cellphone use to extend battery life and avoid overloading cellphone networks. Use text messages for communication because they can be more reliably sent through the cellphone networks and reduce battery use.

While Working Outside:

- Check vehicles, equipment and buildings/trailers (if present) for any obvious damage.

7.5 Environmental Stressors, Heat Stress, Heat Exhaustion, and Heat Stroke

To prevent potential heat illness, Cal/OSHA T8 CCR Section 3395 requires the employer to develop and implement a Heat Illness Prevention Plan for outdoor work areas when the outdoor work area temperature exceeds 80 degrees Fahrenheit (°F). It is the employer’s responsibility to monitor weather forecasts and ambient air temperatures, both prior to the work shift and during the shift.

The National Oceanic and Atmospheric Administration records average minimum/maximum temperatures of 46/94°F during the year in Santa Clarita, CA.

To prevent potential heat illness, the following strategies will be implemented:

- Adjusting personnel work/rest intervals;
- Monitoring for symptoms of heat illness;
- Providing shaded rest areas;
- Providing cool potable water so that each employee has access to at least one quart per hour for the entire shift, free of charge;
- Allowing for employees to acclimatize to the weather conditions and work demands;
- Observe workers during a heat wave (i.e., when the temperature is at least 80°F, and 10 degrees hotter than the average temperature of the five preceding days);
- Implementing high heat procedures when the temperature reaches 95°F.

Cal/OSHA T8 CCR Section 3395 requires that the Heat Illness Prevention Plan is implemented when the ambient temperatures exceed 80°F. All work shall be carried out in accordance with Roux’s Heat Illness Prevention Program, which can be found within **Appendix E**. Additional information regarding heat illnesses is provided below. This can include, but is not limited to, access to shade that is sufficient in size to fit all workers who are on break; a car with air conditioning is acceptable, too. Preventative cool-down breaks shall be allowed at any time, and anyone taking such a break will be monitored for heat illness symptoms and not required to return to work until all symptoms (if present) of heat illness have disappeared. If necessary, first aid will be offered, but if symptoms are severe, emergency response procedures will be implemented per Section 6.3. Anyone who has shown symptoms of severe heat illness will not be sent home without being offered first aid or medical treatment.

High heat procedures must be implemented when temperatures reach 95°F. These procedures include:

- Ensuring that effective communication by voice, observation, or electronic means is maintained so that employees at the work site can contact a supervisor when necessary. An electronic device, such as a cell phone or text messaging device, may be used for this purpose only if the reception in the area is reliable.
- Observing employees for alertness and signs or symptoms of heat illness. The employer shall ensure effective employee observation/monitoring by implementing one or more of the following:
 - Supervisor or designee observation of 20 or fewer employees;
 - Mandatory buddy system;
 - Regular communication with sole employee such as by radio or cellular phone, or other effective means of observation;
- Designating one or more employees on each worksite as authorized to call for emergency medical services and allowing other employees to call for emergency services when no designated employee is available.
- Encouraging employees throughout the work shift to drink plenty of water.
- A review of the high heat procedures during the daily tailgate meeting and remind employees of their right to take a cool-down rest when necessary.

Heat illnesses includes heat cramps, heat exhaustion, heat syncope, and heat stroke.

7.5.1 Heat Stress

Heat stress is the body's response to excessive heat and can be a significant potential hazard. The risk of heat stress can be increased with heavy physical activity and/or the use of personal protective equipment in hot, humid weather environments. There are also personal risk factors that can contribute to the risk of suffering from heat stress, such as obesity, water intake, alcohol and caffeine consumption, pregnancy, age, medication, etc.

7.5.2 Heat Cramps

Heat cramps may be brought on by prolonged exposure to heat. As an individual sweats, water and salts are lost by the body resulting in painful muscle cramps, typically in the legs.

First aid treatment includes, but is not limited to, shade, rest, and fluid replacement. Typically, the individual should recover within one-half hour while being monitored constantly. If the individual has not improved substantially within 30 minutes and the body temperature has not decreased, the individual should be transported to a hospital for medical attention.

Per Cal/OSHA T8 CCR Section 3395, employees shall have access to potable drinking water that is fresh, pure, suitably cool, free of charge and in-sufficient quantities. Access to shade shall be present when temperatures exceed 80 degrees Fahrenheit and shall be available when temperatures do not exceed 80 degrees Fahrenheit.

7.5.3 Heat Exhaustion

Heat exhaustion may occur in an individual who has been exposed to excessive heat while working or exercising. The circulatory system of the individual fails as blood collects near the skin to rid the body of excess heat through transference. The signs and symptoms of heat exhaustion are as follows:

- Rapid and shallow breathing;
- Weak pulse;
- Cold and clammy skin with heavy perspiration;
- Skin appears pale;
- Fatigue and weakness;
- Dizziness; and
- Elevated body temperature.

First aid treatment includes, but is not limited to, cooling the victim, elevating the feet, and replacing fluids.

If the individual is not substantially improved within 30 minutes and the body temperature has not decreased, the individual should be transported to the hospital for medical attention.

7.5.4 Heat Stroke

Heat stroke occurs when an individual is exposed to excessive heat and stops sweating. This condition is classified as a MEDICAL EMERGENCY requiring immediate cooling of the victim and transport to a medical facility. The signs and symptoms of heat stroke are as follows:

- Dry, hot, red skin;
- Body temperature approaching or above 105°F;
- Confusion, altered mental state, slurred speech;
- Seizures;
- Large (dilated) pupils; and
- Loss of consciousness – the individual may go into a coma.

First aid treatment requires immediate cooling and transportation to a medical facility. Heat stress is a significant hazard if any type of protective equipment (semi-permeable or impermeable) that prevents evaporative cooling when worn in hot weather environments.

7.6 Illumination

Areas accessible to employees shall be lighted to not less than the minimum illumination intensities listed within Cal/OSHA T8 CCR Section 5192(m). All work shall occur outdoors during daylight hours.

Cal/OSHA T8 CCR Section 5192(m) Table H-1, Minimum Illumination Intensities in Foot-Candles

Foot Candles	Area of Operations
5	General site areas.
3	Excavation and waste areas, accessways, active storage areas, loading platforms, refueling and field maintenance areas.
5	Indoors: Warehouses, corridors, hallways, and exit ways.
5	Tunnels, shafts, and general underground work areas (EXCEPTION: Minimum of 10 foot-candles is required at tunnel and shaft heading during drilling, mucking, and

Foot Candles	Area of Operations
	scaling. Mine Safety and Health Administration approved cap lights shall be acceptable for use in the tunnel heading.).
10	General shops (e.g., mechanical and electrical equipment rooms, active storerooms, barracks or living quarters, locker or dressing rooms, dining areas, and indoor toilets and workrooms.)
30	First aid stations, infirmaries, and offices.

8. Safety Procedures

This section of the HASP presents the specific safety procedures to be implemented during Roux's activities at the Site in order to protect the health and safety of various on-Site personnel. Minimum Cal/OSHA-mandated procedures are presented first, followed by client- and Site-specific procedures. Lastly, activity-specific procedures are discussed. These Site- and activity-specific procedures supplement the general safety procedures included in Roux's Corporate Health and Safety Manual, which also must be followed in its entirety.

8.1 Training

At a minimum, Site personnel who will perform work in areas where there exists the potential for toxic exposure will be health and safety-trained prior to performing work on Site per Cal/OSHA T8 CCR, 5192(e). More specifically, all Roux, subcontractors, and other personnel engaged in sampling and remedial activities at the Site, and who are exposed or potentially exposed to hazardous substances, health hazards, or safety hazards must have received, at a minimum, the 40 hour initial HAZWOPER training pursuant to the requirements of Cal/OSHA T8 CCR, Section 5192(e)(3) training and a minimum of 3 days' actual field experience under the direct supervision of a trained experienced supervisor, plus 8 hours of refresher training on an annual basis. Depending on tasks performed, less training may be permitted. Furthermore, all on-Site management and supervisory personnel directly responsible for or who supervise the employees and/or sub-contractors engaged in Site remedial operations, must have received an additional 8 hours of specialized training at the time of job assignment on topics including, but not limited to, the employer's safety and health program and the associated employee training program, personal protective equipment program, spill containment program, and health hazard monitoring procedure and techniques, plus 8 hours of refresher training on an annual basis. Additionally, all workers who will be required to don a respirator will be properly trained on their employer's Respiratory Protection Program, which also includes being medically cleared to wear a respirator and passed a fit test, at least initially prior to use, and then annually thereafter in accordance with Cal/OSHA T8 CCR Section 5144, Respiratory Protection.

Roux personnel training records are maintained in a corporate database with records available upon request from either the OHSM/SHSO/CHSD or Human Resources Department.

8.2 Site-Specific Safety Briefings for Visitors

A Site-specific briefing is provided to all Site visitors who enter this Site beyond the Site entry point. For visitors, the Site-specific briefing provides information about Site hazards, the Site lay-out including work zones and places of refuge, the emergency alarm system and emergency evacuation procedures, and other pertinent safety and health requirements as appropriate.

8.3 HASP Information and Site-Specific Briefings for Workers

Site personnel review this HASP and are provided a Site-specific tailgate briefing prior to the commencement of work to ensure that employees are familiar with this HASP and the information and requirements it contains, as well as the relevant JSAs included in **Appendix A**. Additional briefings are provided as necessary to notify employees of any changes to this HASP as a result of information gathered during ongoing Site characterization and analysis of changing conditions. Conditions for which additional briefings

will be scheduled include but are not limited to: changes in Site conditions, changes in the work schedule/plan, newly discovered hazards, and incidents occurring during Site work.

8.4 Medical Surveillance

The medical surveillance section of the Health and Safety Plan describes how worker health status is monitored at this Site. Medical surveillance is used when there is the potential for worker exposure to a hazardous substance at levels above Cal/OSHA Permissible Exposure Limits (PELs) or if there is no PEL above other published limits. The purpose of a medical surveillance program is to medically monitor worker health to ensure that personnel are not adversely affected by Site hazards. The provisions for medical surveillance at this Site are based on the Site characterization and job safety analysis found in Section 5 of this HASP and are consistent with Cal/OSHA requirements identified in Cal/OSHA T8 CCR, Section 5192(f).

8.4.1 Site Medical Surveillance Program

Medical surveillance requirements are based on a worker's potential for exposure as determined by the Site characterization and job safety analysis documented in Section 5 and JSAs within **Appendix A** of this HASP and in compliance with the requirements of Cal/OSHA T8 CCR, Section 5192(f)(2). Based on Site information and the use of direct reading instruments, anticipated limited use of respirators (less than 30 days per year), and the absence of an employee-staffed HAZMAT team, a limited medical surveillance program is required and will be implemented at this Site. The medical surveillance program provides that:

1. Workers assigned to tasks requiring the use of respirators receive medical examinations in accordance with Cal/OSHA T8 CCR Section 5144 to ensure they are physically capable to perform the work and use the equipment, and
2. If a worker is injured, becomes ill, or develops signs or symptoms of possible over-exposure to hazardous substance or health hazards, medical examinations are provided to that worker as soon as possible after the occurrence and as required by the attending physician.
3. These medical examinations and procedures are performed by or under the supervision of a licensed physician or other licensed health care professional such as a physician assistant or nurse practitioner, and are provided to workers free of cost, without loss of pay, and at a reasonable time and place. In addition, the need to implement a more comprehensive medical surveillance program will be re-evaluated after any apparent over-exposure.

8.4.2 Medical Recordkeeping Procedures

Medical recordkeeping procedures at Roux are consistent with the requirements of Cal/OSHA T8 CCR Section 3204, Access to Employee Exposure and Medical Records, and are described in the company's overall safety and health program. A copy of that program is available on request from Roux's HR department in our Islandia, New York office.

The following items are maintained in worker medical records:

- Respirator fit test and selection;
- Physician's medical opinion of fitness for duty (pre-placement, periodic, termination);
- Physician's medical opinion of fitness for respirator protection (pre-placement, periodic); and
- Exposure monitoring results.

8.4.3 Program Review

The medical program is reviewed annually to ensure its effectiveness. The Corporate Health and Safety Manager in coordination with the Human Resources Director is responsible for this review. At minimum, this review consists of:

- Review of accident and injury records and medical records to determine whether the causes of accidents and illness were promptly investigated and whether corrective measures were taken wherever possible;
- Evaluation of the appropriateness of required medical tests based on Site exposures; and
- Review of emergency treatment procedures and emergency contacts list to ensure they were Site-specific, effective, and current.

8.5 Personnel Protection

Site safety and health hazards are eliminated or reduced to the greatest extent possible through engineering controls and work practices. Where hazards are still present, a combination of engineering controls, work practices and PPE are used to protect employees. Appropriate PPE shall be worn by Site personnel when there is a potential exposure to chemical, biological or physical hazards (e.g., falling objects, flying particles, sharp edges, electricity and noise), as determined by the SHSO and the JSAs. The level of personal protection, type and kind of equipment selected will depend on the hazardous conditions and in some cases cost, availability, compatibility with other equipment, and performance. An accurate assessment of all these factors will be made before work can be safely executed.

Roux maintains a comprehensive written PPE program that addresses proper PPE selection, use, maintenance, storage, fit and inspection. Roux's PPE program can be found within **Appendix F**. PPE to be used at the Site will meet the appropriate American National Standards Institute (ANSI) standards and the following Cal/OSHA standards for minimum PPE requirements.

The minimum level of PPE for entry onto the Site is Level D.

The following equipment shall be worn:

- Work uniform (long pants, sleeved shirt);
- Hard hat;
- Steel or composite toe work boots (must comply with American Society for Testing and Materials [ASTM] F 2412-05, Standard Test Methods for Foot Protection and ASTM F 2413-05, Standard Specification for Performance Requirements for Foot Protection);
- Safety glasses (must comply with one of the following ANSI/ISEA Z87.1-2010, ANSI Z87.1-2003, ANSI Z87.1-2003);
- Boot covers (as needed);
- Hearing protection (as needed);
- High visibility clothing (shirt/vest); and
- Hand protection (e.g., minimum cut resistance meeting ANSI 105-2000 Level 2).

Note that jewelry shall be removed or appropriately secured to prevent it from becoming caught in rotating equipment or unexpectedly snagged on a fixed object. (e.g., wrist watches, bracelets, rings, chains and necklaces, open earrings). Do not wear loose clothing and all shoulder-length hair should be tied back.

Site-specific PPE ensembles and materials are identified within task specific JSAs located within **Appendix A**, and any upgrades or downgrades of the level of protection (i.e., not specified in the JSA) must be approved by the PP and immediately communicated to all Roux personnel and subcontractors as applicable. PPE is used in accordance with manufacturer's recommendations.

8.5.2 Hearing Conservation

Hearing protection is made available when noise exposures equal or exceed an 8-hour time-weighted average sound level of 85 dBA. Hearing protection is required when the 8-hour time weighted average sound level \geq 85 dBA, or when noise levels exceed 140 dBA at any point or exceeds 115 dBA for at least 15 minutes. Where noise exposure meets or exceeds this level, noise is listed as a physical hazard in the JSA for the tasks/operation, and hearing protection is included as one of the control measures (PPE).

8.6 Air Monitoring Plan

An air monitoring program is important to the safety of on- and off-Site personnel, and the surrounding area. A preliminary survey, to establish background conditions in the immediate sampling area, may be made prior to the initiation of Site work including, but not limited to, monitoring wind direction (e.g., wind socks) and approximate temperature during all invasive Site activities. This survey will be conducted with the appropriate pre-calibrated air monitoring instrument(s), as warranted by the field activity. Once this survey has been complete, any changes in the type of PPE will be determined and relayed to those working on-Site.

Work zone air monitoring will be performed to verify that the proper level of PPE is used, and to determine if increased protection or work stoppage is required. The following equipment may be used to monitor conditions:

- A Photoionization Detector (PID) with a lamp energy of 10.6 eV will be used to provide direct readings of organic vapor concentrations during intrusive activities to determine that personnel protection is adequate. Concentrations shall be recorded during intrusive activities with the potential to encounter contaminant vapors.

Personal exposure monitoring utilizing activated charcoal tubes may be considered based on whether or not the area sample results are at or above half of the PEL. The decision to perform the monitoring will be made by, and under the control of, the CHSD.

Below are monitoring action levels for Site-specific chemicals of concern. In the event PID readings above the thresholds identified below are sustained for 5 minutes in the breathing zone, worker protection will require upgrading following notification to the OHSM and applicable parties.

8.6.1 Action Levels for Air Monitoring

PPE can remain at Level D if breathing zone VOC concentrations are less than 5 ppm and benzene is non-detect. Personnel are required to evacuate the Site when breathing zone VOC readings exceed 25 ppm.

The following tables include summaries of the air monitoring, work practices, and action levels for the expected contaminants. The action levels to initiate testing with colorimetric tubes for airborne volatiles is 1 ppm (PID reading) and is based on the Permissible Exposure Limit (PEL) for benzene or vinyl chloride (1 ppm). The colorimetric tubes are used to confirm the presence or absence of specific constituents, and they do not provide a measured concentration.

Air Monitoring Summary and Action Levels Organic Vapors	
PID Reading in Breathing Zone (ppm)	Action
0-1 ppm above background ²	Continue monitoring
>1-5 ppm sustained 60 seconds	Continue monitoring, if applicable initiate additional collection of benzene/vinyl chloride using colorimetric tubes.
<5 ppm and no presence of benzene/vinyl chloride	Continue Monitoring, ventilate space
≥ 5 ppm - ≤ 25 ppm and no presence of benzene/vinyl chloride	Ventilate space until PID reads < 5 ppm. If < 5 ppm cannot be achieved, upgrade to Level C ¹ .
≥ 25 ppm	Ventilate space and evacuate area.

Background concentrations should be established at the beginning of each work day. It may be necessary to re-establish background concentrations and ambient conditions vary through the day.

- ¹ Measured air concentrations of known organic vapors will be reduced by the respirator to one half of the PEL or lower, and the individual and combined compound concentrations shall be within the service limit of the respirator cartridge.

Air Monitoring Summary and Action Levels Oxygen	
O ₂ Reading in Breathing Zone (%) ¹	Action
20.9% O ₂	Oxygen level normal
< 19.5% O ₂	Oxygen deficient Interrupt task/Evacuate area
>23.5% O ₂	Oxygen enriched Interrupt task/Evacuate area

- ¹ Action levels based on USEPA Standard Operating Safety Guides; Table 5-1, Atmospheric Hazard Action Guidelines may be further restricted based on the CHSD's professional judgment and experience.

Air Monitoring Summary and Action Levels Carbon Monoxide	
CO Reading in Breathing Zone (ppm) ¹	Action
<12.5 ppm	Inspect exhaust system for leaks or other sources of CO. Monitor initially and every 15 minutes during use of CO-generating equipment.
12.5-25 ppm	Ventilate area. Monitor continuously and record measurements. Contact PM.
>25 ppm	Cease Field Operations. Ventilate area.

- ¹ Based upon the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) of 25 ppm as an 8-hour time weighted average (TWA) and OSHA's Permissible Exposure Limit (PEL) of 50 ppm as an 8-hour TWA concentration.

Air Monitoring Summary and Action Levels Combustible Gases	
Lower Explosive Limit (LEL) Reading	Action
< 4% LEL	Site activities will continue with normal monitoring
4% – 20% LEL	Stop work until levels dissipate to <4% LEL
> 20% LEL	Potential explosion hazard. Halt all site activities, research source of release, aerate work area, suppress source.

Air Monitoring Summary and Action Levels Hydrogen Sulfide	
Hydrogen Sulfide (H ₂ S) Reading	Action
<10 ppm	Site activities will continue with normal monitoring
≥10 ppm	Stop work until levels dissipate to <10 ppm; use mechanical ventilation if possible. Consult with CHSD if unable to reduce concentrations below 10 ppm.

8.6.2 Explosive Hazard

Methane is a common gas constituent that is generated during the decomposition of organics. Methane, a non-toxic compound, does not have Cal/OSHA or other exposure limits based on toxicity. However, methane is explosive under certain conditions. The Lower Explosive Limit (LEL) for methane is 5% in air, or 50,000 parts per million by volume. At high concentrations, methane can also displace oxygen and cause asphyxiation. Because methane is lighter than air, it does not tend to accumulate in low-lying areas and will rapidly mix with atmospheric air if encountered during drilling activities. Methane concentrations will be continuously monitored using a pre-calibrated gas meter while excavation takes place.

8.6.3 Air Monitoring Equipment and Calibration

A PID calibrated to an appropriate calibration mixture will be used to detect organic vapors in and around the work areas. Monitoring will be conducted in and around all work areas and at the workers breathing zone before activities commence to establish a background level, then at 15-minute intervals throughout the day. All equipment will be calibrated according to the manufacturer's recommendation. A calibration log will be maintained and will include the name of the person who performed the calibration, the date and time calibrated, and the instrument reading at the time of calibration. A manual bellows pump or equivalent with colorimetric tubes for formaldehyde will be utilized to determine the course of action related to upgrading or downgrading the level of respiratory protection, as applicable.

If air monitoring data indicate safe levels of potentially harmful constituents at consistent intervals (5-minute intervals), then monitoring can be conducted less frequently (every 30 minutes). This determination will be made by the on-Site SHSO. Monitoring data, including background readings and calibration records, will be

documented. Work to be performed on-Site will conform to Roux's Standard Operating Procedures (SOPs). Conformance with these guidelines as well as the guidelines described in this HASP will aid in mitigating the physical and chemical hazards mentioned throughout this HASP.

8.7 Tailgate Safety Meetings

A designated Site worker will provide daily safety briefings (e.g., tailgate meetings) including, but not limited to, the following scenarios:

- When new operations are to be conducted;
- Whenever changes in work practices must be implemented; and
- When new conditions are identified and/or information becomes available.

Daily safety briefings shall be recorded on the Roux Daily Tailgate Health and Safety Meeting Log/Daily Site Safety Checklist, and all completed forms will become a part of the project file.

8.8 Spill Containment

Spill containment equipment and procedures should, at a minimum, meet the requirements of the facility's Spill Prevention, Control and Countermeasure Plan (SPCC), if applicable. Otherwise, spill containment equipment and procedures must be considered depending on the task including, but no limited to, chemical/product transfer points and handling, and storage.

8.8.1 Initial Spill Notification and Response

Any worker who discovers a hazardous substance spill will immediately notify the SHSO. The worker will, to his/her best ability, report the hazardous substance involved, the location of the spill, the estimated quantity of material spilled, the direction/flow of the spill material, related fire/explosion incidents, and any associated injuries without compromising their own safety.

8.8.2 Spill Evaluation and Response

The SHSO is responsible for evaluating spills and determining the appropriate response. When this evaluation is being made, the spill area will be isolated and demarcated to the extent possible. If necessary to protect nearby community members, notification of the appropriate authorities is made by the PM as appropriate. On-Site response is limited to small spills (e.g., <10 gallons); large spills require external emergency responders who will be contacted by the SHSO.

8.9 Decontamination

The decontamination section of the HASP describes how personnel and equipment are decontaminated when they leave the EZ. This section also describes how residual waste from decontamination processes is disposed of. The Site decontamination procedures are designed to achieve an orderly, controlled removal or neutralization of contaminants that may accumulate on personnel or equipment. These procedures minimize worker contact with contaminants and protect against the transfer of contaminants to clean areas of the Site and off-Site. They also extend the useful life of PPE by reducing the amount of time that contaminants contact and can permeate PPE surfaces. Decontamination is facilitated within the CRZ at this Site, if applicable.

8.9.1 Decontamination Procedures for Personnel and PPE

The following are general decontamination procedures established and implemented at this Site:

1. Decontamination is required for all workers exiting a contaminated area. Personnel may re-enter the SZ only after undergoing the decontamination procedures described in the next section.
2. Protective clothing is decontaminated, cleaned, laundered, maintained and/or replaced as needed to ensure its effectiveness.
3. PPE used at this Site that requires maintenance or parts replacement is decontaminated prior to repairs, or
4. PPE used at this Site is decontaminated or prepared for disposal on the premises. Personnel who handle contaminated equipment have been trained in the proper means to do so to avoid hazardous exposure.
5. This Site uses an off-Site laundry for decontamination of PPE. The Site has informed that facility of the hazards associated with contaminated PPE from this Site.
6. The Site requires and trains workers that if their permeable clothing is splashed on or becomes wetted with a hazardous substance, they will immediately exit the work zone, perform applicable decontamination procedures, shower, and change into uncontaminated clothing.
7. Procedures for disposal of decontamination waste shall meet applicable local, State, and Federal regulations.

8.9.2 Decontamination Procedures for Equipment

All tools, equipment, and machinery from the EZ or CRZ are decontaminated in the CRZ prior to removal to the SZ. Equipment decontamination procedures are designed to minimize the potential for hazardous skin or inhalation exposure, and to avoid cross-contamination and chemical incompatibilities.

General Equipment Decontamination Procedures:

1. Decontamination is required for all equipment exiting a contaminated area. Equipment may re-enter the SZ only after undergoing the equipment decontamination procedures.
2. Vehicles that travel regularly between the contaminated and clean areas of the Site are carefully decontaminated each time they exit the EZ and the effectiveness of that decontamination is monitored to reduce the likelihood that contamination will be spread to other parts of the Site.
3. Particular attention is given to decontaminating tires, scoops, and other parts of heavy equipment that are directly exposed to contaminants and contaminated soil.
4. Procedures for disposal of decontamination waste shall meet applicable local, State and Federal regulations.

The following items may be used to decontaminate equipment:

- Fresh water rinse;
- Non-phosphorus detergent wash;
- Distilled water rinse;
- Acetone rinse; and
- A steam cleaner or pressure washer (heavy equipment only).

8.9.3 Monitoring the Effectiveness of Decontamination Procedures

Visual examination is used to evaluate the effectiveness of decontamination procedures. Visual examination is used to ensure that procedures are implemented as described and that they appear to control the spread of contaminants under changing Site conditions. Visual examination is also used to inspect for signs of residual contamination or for contaminant permeation of PPE.

Personnel who work in contaminated areas of the Site, either the CRZ or the EZ, are trained in the principles and practices of decontamination described in this section of the HASP and in related SOPs. If Site procedures are changed as a result of inspection and monitoring, all affected employees are notified of these changes.

8.10 Confined Space Entry

Confined space entry will not be performed for this scope of work.

The following is a list of the safety requirements for confined space entry at the Site:

- **ROUX PERSONNEL ARE NOT AUTHORIZED TO ENTER ANY Cal/OSHA PERMIT OR NON-PERMIT REQUIRED CONFINED SPACE;**
- The scope of work may require personnel to enter any permitted or non-permitted confined space for this project; and
- Any changes to the field activities that may necessitate confined space entry will be reported to the PP and OHSM before any confined space entry is made.

Confined space is defined as any space, depression, or enclosure that:

- Has limited opening for entry and egress;
- Is large enough for an employee to enter and perform assigned work; and
- Is not intended for continuous occupancy.

A permit required confined space is one that meets the definition of a confined space and has one or more of the following characteristics:

- May contain or produce life-threatening atmospheres due to oxygen deficiency the presence of toxic, flammable, or corrosive contaminants;
- Contains a material that has the potential for engulfment;
- Has an internal configuration that may cause an entrant to be trapped or asphyxiated by inwardly converging walls or by a floor that slopes downward and tapers to a smaller cross-section; and
- Contains any other serious safety or health hazards.

Although Roux personnel will not perform confined space entry, it is expected that subcontractors performing cleaning and mitigation, and/or remedial measures activities may be required to enter structures that are considered to be a permit or non-permit required confined space. Permitting of the confined space as well as hazard mitigation for entry will be required to be completed by the subcontractor in accordance with T8 CCR, Subchapter 4 Construction Safety Orders Article 37-Confined Spaces in Construction.

8.11 Client and Site-Specific Procedures

In addition to the Cal/OSHA-specific procedures discussed above, there may be client and Site-specific safety procedures that must be adhered to during the performance of remedial activities at the Site.

Based on previous investigations, methane has been detected at the Site, which can be explosive under certain conditions (Refer to Section 8.5.2). Type ABC fire extinguishers will be maintained on-Site in the event of an incipient fire. Roux does not anticipate any additional client or Site-specific health and safety provisions beyond those included in this Site-specific HASP at this time.

8.11.1 Electrical and Other Utility Assessment and Accommodations

Roux has performed a Site walk to identify any potential overhead electrical or utility lines. All applicable guidelines will be followed in the vicinity of overhead power and utility lines (see Section 7.13.1 below). Roux has also reviewed all available Site maps showing buried utility lines to identify potential hazards, which revealed that no underground hazards are known to exist in the vicinity of the areas of the Site pertinent to this HASP.

8.11.2 Ionizing Radiation

There is no risk of ionizing radiation at the site.

Roux has reviewed historical records and previous on-Site investigations for the identification of any materials that may emit harmful ionizing radiation. Roux did not identify any references to radioactive materials disposed of at the Site or any documented detections during on-Site investigations; thus, it is unlikely that any radioactive materials emitting harmful ionizing radiation will be encountered during the field activities.

8.12 Unusual or Significant Risks

Field activities that appear to have unusual or significant risks that cannot be adequately managed with existing risk tools such as behavior-based safety (i.e., safe performance self-assessments, hazard identification) HASPs, traffic safety plans, work permits, design and O&M practices, equipment Hazard and Operability Analysis (HAZOPS) or other safety tools must be referred to the CHSD to help with the assessment and management of the associated potential safety risks. Examples include the use of explosives for demolition, use of firearms to control wildlife, rappelling, demolition over water, diving, etc.

8.13 Activity-Specific Hazards

In addition to the general hazards discussed above, there are activity-specific hazards associated with each work activity planned for the Site. An activity-specific JSA has been completed for each of the activities planned for the Site. JSAs are provided in **Appendix A**. In the event that new work activities or tasks are planned, JSAs will be developed and implemented prior to performing the new activities. In the absence of a JSA, the personnel performing work must prepare a field JSA and receive clearance from a designated competent safety official prior to performing any task with significant risk. In emergency situations where time is critical Safe Performance Self-Assessments (SPSAs) will be utilized to identify the task, associated hazards, and mitigative actions to take. For lower risk activities (as deemed by the discretion of a Competent Person) where a JSA is determined to not be needed, the individual(s) conducting the activities must perform SPSAs prior to and during the work to be conducted.

8.13.1 Heavy Equipment

Use of heavy equipment at the Site will require adherence to Roux's Corporate Heavy Equipment Exclusion Zone Management Program found within **Appendix G**. Additionally, operation of the heavy equipment will maintain clearances from overhead power lines in accordance with Cal/OSHA T8 CCR Section 2946 Table1: General Clearances Required from Energized Overhead-High Voltage Conductors and Table 2: Material Storage and Boom-Type Lifting or Hoisting Equipment Clearances Required from Energized Overhead High-Voltage Lines, provided below.

Table 1: General Clearances Required from Energized Overhead-High Voltage Conductors		
Nominal Voltage (Phase to Phase)		Minimum Required Clearance (Feet)
600	50,000	6
over 50,000	345,000	10
over 345,000	750,000	16
over 750,000	1,000,000	20

Table 2: Material Storage and Boom-Type Lifting or Hoisting Equipment Clearances Required from Energized Overhead High-Voltage Lines		
Nominal Voltage (Phase to Phase)		Minimum Required Clearance (Feet)
600	50,000	10
over 50,000	75,000	11
over 75,000	125,000	13
over 125,000	175,000	15
over 175,000	250,000	17
over 250,000	370,000	21
over 370,000	550,000	27
over 550,000	1,000,000	42

8.13.2 Subsurface Work

Subsurface work activities will require adherence to Roux's Corporate Subsurface Utility Clearance Management program found within **Appendix H**.

8.14 Traffic Control

Per Cal/OSHA T8 CCR Section 1598, if Site operations encroach upon public streets or highways and a hazard exists to Site personnel because of traffic conditions, a traffic control plan will be implemented in accordance with the California Department of Transportation's (DOT's) "California Manual on Uniform Traffic Control Devices for Streets and Highways" dated January 13, 2012.

8.15 Sanitation

Sanitation facilities will be provided in accordance with the sanitation standards (Cal/OSHA T8 CCR Sections 3364-3366, 29 CFR 1910.141, 29 CFR 1926.51 and 29 CFR 1928.110). Per the Cal/OSHA T8 CCR Section 3364, separate toilet facilities will be provided for each sex, and hand washing facilities will be accessible throughout the Site. Sanitation facilities will be maintained and kept in good conditions at all times.

9. Approvals

By their signature, the undersigned certify that this HASP is approved and will be utilized at Chiquita Canyon.



Peter Grimmatt– Site Health and Safety Officer

10/27/2023

Date



Ali Rice - Office Health and Safety Manager
(for high risk projects: Brian Hobbs, CIH, CSP – Corporate Health and Safety Director must review)

10/27/2023

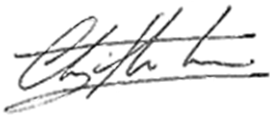
Date



April McGuire– Project Manager

10/27/2023

Date



Chris Rose – Project Principal

10/27/2023

Date

1. Toxicological Properties of Hazardous Substances Present at the Site

Table 1. Toxicological, Physical, and Chemical Properties of Compounds

Compound	CAS #	ACGIH TLV	NIOSH REL	OSHA PEL	CAL/OSHA	IDLH	Routes of Exposure	Toxic Properties	Target Organs	Physical/Chemical Properties
1,1,1-Trichloroethane (Methyl Chloroform)	71-55-6	TWA 350 ppm STEL 450 ppm	C 350 ppm (1900 mg/m ³) [15-minute]	TWA 350 ppm (1900 mg/m ³)	350 ppm (1900 mg/m ³) 800 ppm C STEL 450 ppm (2450 mg/m ³)	700 ppm	inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin; headache, lassitude (weakness, exhaustion), central nervous system depression, poor equilibrium; dermatitis; cardiac arrhythmias; liver damage	Eyes, skin, central nervous system, cardiovascular system, liver	Colorless liquid with a mild, chloroform-like odor. BP: 165°F UEL: 12.5% LEL: 7.5%
1,1-Dichloroethene (Vinylidene Chloride)	75-35-4	TWA 5 ppm	Ca (lowest feasible concentration)	None established	1 ppm (4 mg/m ³)	Ca [N.D.]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, throat; dizziness, headache, nausea, dyspnea (breathing difficulty); liver, kidney disturbance; pneumonitis; [potential occupational carcinogen]	Eyes, skin, respiratory system, central nervous system, liver, kidneys	Colorless liquid or gas (above 89°F) with a mild, sweet, chloroform-like odor. BP: 89°F FLP: -2°F UEL: 15.5% LEL: 6.5% Class IA Flammable Liquid
1,2-Dichloroethane (Ethylene Dichloride)	107-06-2	TWA 10 ppm	Ca TWA 1 ppm (4 mg/m ³) STEL 2 ppm (8 mg/m ³)	TWA 50 ppm C 100 ppm 200 ppm [5-minute maximum peak in any 3 hours]	1 ppm (4 mg/m ³) 200 ppm C STEL 2 ppm (8 mg/m ³)	Ca [50 ppm]	inhalation, ingestion, skin absorption, skin and/or eye contact	Irritation eyes, corneal opacity; central nervous system depression; nausea, vomiting; dermatitis; liver, kidney, cardiovascular system damage; [potential occupational carcinogen]	Eyes, skin, kidneys, liver, central nervous system, cardiovascular system	Colorless liquid with a pleasant, chloroform-like odor. [Note: Decomposes slowly, becomes acidic & darkens in color.] BP: 182°F FLP: 56°F UEL: 16% LEL: 6.2% Class IB Flammable Liquid
Heptane	142-82-5	TWA = 400 ppm, STEL = 500 ppm	TWA 85 ppm (350 mg/m ³) C 440 ppm (1800 mg/m ³) [15-minute]	TWA 500 ppm (2000 mg/m ³)	400 ppm (1600 mg/m ³) STEL 500 ppm (2000 mg/m ³)	750 ppm	inhalation, ingestion, skin and/or eye contact	dizziness, stupor, incoordination; loss of appetite, nausea; dermatitis; chemical pneumonitis (aspiration liquid); unconsciousness	skin, respiratory system, central nervous system	Colorless liquid with a gasoline-like odor. BP: 209 °F FLP: 25 °F UEL: 6.7 % LEL: 1.05%
Tetrachloroethene	127-18-4	TWA 25 ppm STEL 100 ppm (STEL) listed as A3, animal carcinogen	Ca Minimize workplace exposure concentrations 2 ppm (60-minute ceiling) as an anesthetic agent 25 ppm (as a 10-hour TWA) during all other exposures	TWA 100 ppm C 200 ppm C 300 ppm (for 5 minutes in any 3-hour period)	25 ppm (170 mg/m ³) 300 ppm C STEL 100 ppm (685 mg/m ³)	Ca [150 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen]	Eyes, skin, respiratory system, liver, kidneys, central nervous system	Colorless liquid with a mild, chloroform-like odor. BP: 250°F Noncombustible Liquid
Tetrahydrofuran	109-99-9	TWA = 50 ppm, STEL = 100 ppm, A3 - suspected human carcinogen	TWA 200 ppm (590mg/m ³) ST 250 ppm (735 mg/m ³)	TWA 200 ppm (590 mg/m ³)	200 ppm (590 mg/m ³) STEL 250 ppm (735 mg/m ³)	2000 ppm	inhalation, skin and/or eye contact, ingestion	irritation eyes, upper respiratory system; nausea, dizziness, headache, central nervous system depression	eyes, respiratory system, central nervous system	Colorless liquid with an ether-like odor. BP: 151°F FLP 6 °F UEL: 11.8% LEL: 2%
Trichloroethene	79-01-6	TWA 10 ppm STEL 25 ppm	Ca	TWA 100 ppm C 200 ppm C 300 ppm (5-minute maximum peak in any 2 hours)	25 ppm (135 mg/m ³) 300 ppm C STEL 100 ppm (537 mg/m ³)	Ca [1000 ppm]	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]	Eyes, skin, respiratory system, heart, liver, kidneys, central nervous system	Colorless liquid (unless dyed blue) with a chloroform-like odor. BP: 189°F UEL(77°F): 10.5% LEL(77°F): 8%
Vinyl Chloride	75-01-4	TWA 1 ppm	Carcinogen	TWA 1 ppm C 5 ppm [15-minute]	1 ppm	Ca [IDLH value has not been determined]	inhalation, skin, and/or eye contact (liquid)	Lassitude (weakness, exhaustion); abdominal pain, gastrointestinal bleeding; enlarged liver; pallor or cyanosis of extremities; liquid: frostbite; [potential occupational carcinogen]	Liver cancer, central nervous system, blood, respiratory system, lymphatic system	Colorless gas or liquid (below 7°F) with a pleasant odor at high concentrations. BP: 7°F UEL: 33.0% LEL: 3.6% Flammable Gas

References:

U.S. Department of Labor. 1990. OSHA Regulated Hazardous Substances, industrial Exposure and Control Technologies Government Institutes, Inc. Hawley's Condensed Chemical Dictionary, Sax, N. Van Nostrand and Reinhold Company, 11th Edition, 1987.
 Proctor, N.H., J.P. Hughes and M.L. Fischman, 1989. Chemical Hazards of the Workplace. Van Nostrand Reinhold. New York.
 Sax, N.I. and R.J. Lewis. 1989. Dangerous Properties of Industrial Materials. 7th Edition. Van Nostrand Reinhold. New York.
 2014 TLVs® and BEIs®. American Conference of Governmental Industrial Hygienists (ACGIH).
 Applicable Material Safety Data Sheets

Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists
 BP – boiling point at 1 atmosphere, °F
 C – Ceiling, is a concentration that should not be exceeded during and part of the working exposure
 Ca – NIOSH considers substance to be a potential occupational carcinogen
 CAL/OSHA – California Occupational Safety and Health Administration
 CAS# – Chemical Abstracts Service registry number which is unique for each chemical
 Ft Pt. – Flash point
 IDLH – Immediately Dangerous to Life and Health concentrations represent the maximum concentration from which, in the event of respirator failure, one could escape within 30 minutes without a respirator and without experiencing any escape-impairing or irreversible health effects
 LEL – Lower explosive (flammable) limit in air, % by volume (at room temperature)
 MP – Melting Point
 mg/m³ – Milligrams of substance per cubic meter of air
 NIOSH – National Institute for Occupational Safety and Health
 OSHA – Occupational Safety and Health Administration
 PEL – OSHA Permissible Exposure Limit (usually) a time weighted average concentration that must not be exceeded during any 8 hour work shift of a 40 hr work week
 ppm – parts per million
 REL – NIOSH Recommended Limit indicated a time weighted average concentration that must not be exceeded during any 10 hour work shift of a 40 hr work week
 STEL – Short-term exposure limit (ST)
 TLV – ACGIH Threshold Limit Values (usually 8 hour time weighted average concentrations)
 TWA – 8-hour, time-weighted average
 UEL – Upper explosive (flammable) limit in air, % by volume (at room temperature)

1. Site Location Map
2. Site Plan with Emergency Muster Area
3. Route to Hospital and Urgent Care Facilities

Air/Odor Sampling

Air and Odor Sampling Locations
Weekly Samples

Emergency Muster Point

MS-08

Val Verde

ROUX04

ROUX02

MS12/ROUX03

ROUX01

S End Lincoln

MS-04

MS-01

MS-06

MS-07 Chiquito Cyn Rd

MS-02

MS-03

MS-05

MS-09

SCV

MS10/ROUX07

ROUX06

ROUX05

Castaic Junction

Emergency Muster Point
Val Verde Park
30300 Arlington St
Castaic, CA 91384

← From Chiquita Canyon Landfill, 29201 Henry Mayo Dr. to Henry Mayo Newhall Hospital, 23845 McBean Pkwy.

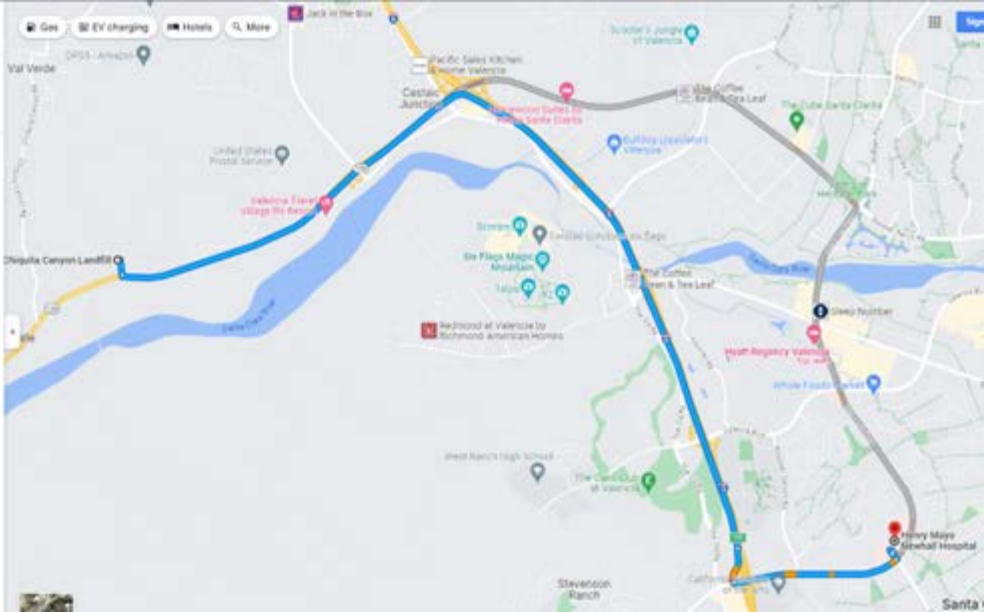
13 min (8.2 miles)

Via CA-126 E and I-5 S
Fastest route now due to traffic conditions

Chiquita Canyon Landfill
29201 Henry Mayo Dr, Castaic, CA 91384

- ↑ Head south toward CA-126 E
Partial restricted usage road
30 mi (31 mi)
- Continue on CA-126 E. Take I-5 S to McBean Pkwy/Stevenon Ranch Pkwy. Take exit 168 from I-5 S.
7 mi (6.9 mi)
- Follow McBean Pkwy to your destination in Santa Clarita.
5 mi (3.2 mi)

Henry Mayo Newhall Hospital
23845 McBean Pkwy, Valencia, CA 91328



← From Chiquita Canyon Landfill, 29201 Henry Mayo -
to Concentra Urgent Care, 25733 Rye Canyon Rd, ...

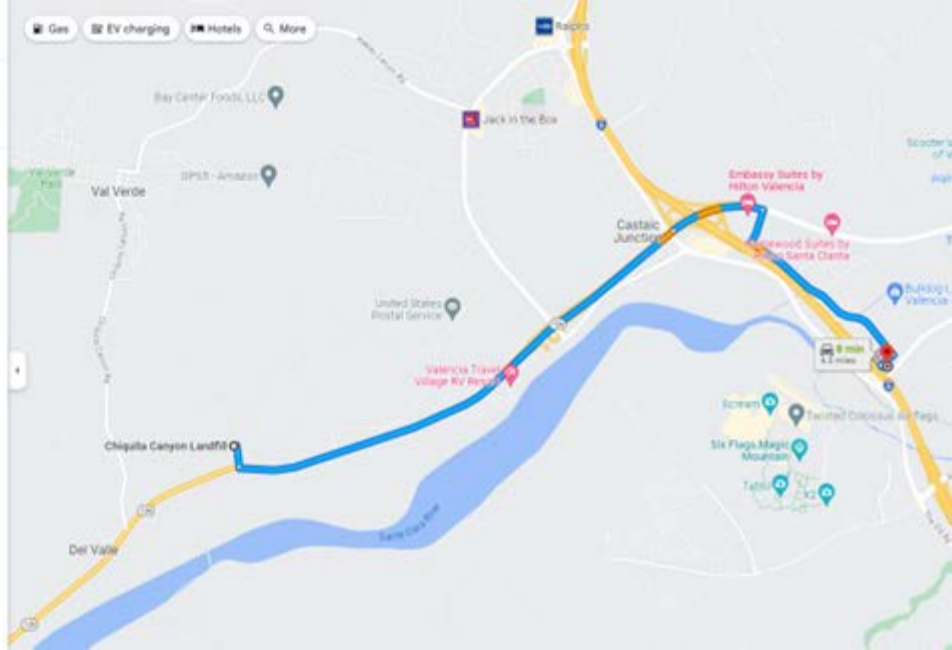
8 min (4.5 miles)

via CA-126 E
Fastest route now due to traffic conditions

Chiquita Canyon Landfill
29201 Henry Mayo Dr, Castaic, CA 91384

- ↑ Head south toward CA-126 E
⚠ Partial restricted usage road
0.1 mi
- ↶ Turn left at the 1st cross street onto CA-126 E
2.0 mi
- ↑ Continue onto Newhall Ranch Rd
0.3 mi
- ↷ Turn right onto Vanderbilt Way
0.2 mi
- ↶ Vanderbilt Way turns left and becomes Avenue Stanford
1.0 mi
- ↷ Turn right
442 ft
- ↶ Turn left
Destination will be on the left
72 ft

Concentra Urgent Care
25733 Rye Canyon Rd, Valencia, CA 91355



- A. Job Safety Analysis (JSA) Forms
- B. Safety Data Sheets (SDSs) for Chemicals Used
- C. Roux COVID-19 Interim Health & Safety Guidance
- D. Roux Injury Illness Prevention Program
- E. Roux Heat Illness Prevention Program
- F. Roux Personal Protective Equipment Management Program
- G. Roux Heavy Equipment Exclusion Zone Management Program
- H. Roux Subsurface Utility Clearance Management Program

Job Safety Analysis (JSA) Forms

JOB SAFETY ANALYSIS		Ctrl. No. GEN-007	DATE 01/06/2022	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> REVISED	PAGE 1 of 2
JSA TYPE CATEGORY GENERIC	WORK TYPE General Site Activity	WORK ACTIVITY (Description) Driving			
DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:		POSITION / TITLE	
Valerie Sabatasso	Project Scientist	Brian Hobbs		CHSD	
		Ray Greenidge		Sr. Compliance Manager	
REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT					
<input type="checkbox"/> LIFE VEST	<input type="checkbox"/> GOGGLES	<input type="checkbox"/> AIR PURIFYING RESPIRATOR	<input checked="" type="checkbox"/> GLOVES: <u>Leather/ cut-resistant level 2</u>		
<input checked="" type="checkbox"/> HARD HAT: <u>when outside vehicle</u>	<input type="checkbox"/> FACE SHIELD	<input type="checkbox"/> SUPPLIED RESPIRATOR	<input type="checkbox"/> OTHER _____		
<input type="checkbox"/> LIFELINE / BODY HARNESS	<input checked="" type="checkbox"/> HEARING PROTECTION	<input checked="" type="checkbox"/> PPE CLOTHING: <u>high visibility vest, when outside vehicle</u>			
<input checked="" type="checkbox"/> SAFETY GLASSES: <u>when outside vehicle</u>	<input checked="" type="checkbox"/> SAFETY TOE BOOTS: <u>when outside vehicle</u>				
REQUIRED AND / OR RECOMMENDED EQUIPMENT					
Motor Vehicle (i.e. car, truck, SUV)					
COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs					
EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.					
Assess JOB STEPS	Analyze POTENTIAL HAZARDS	Act CRITICAL ACTIONS			
1. Driving to/leaving Site	1a. CONTACT: Severe injury/disability, property damage, monetary loss (insurance premiums, deductibles, loss of license/job) caused by collision with or struck by other vehicles, obstructions, pedestrians, animals, etc. *Common factors that may lead to CONTACT incident, but not limited to: <ul style="list-style-type: none"> • distracted driving (cell phone, GPS, radio, billboards, "rubber necking") • lack of situational awareness • unfamiliarity with traffic patterns/road layout • weather conditions (wet/icy roads, hydroplaning, black ice) • weariness • high speeds • obstructed vision (solar glare, debris on windshield, blind spots, large vehicle at the front) • changes in travel pathway (construction, snow banks, non-operational signals, potholes, detours, special events) • improper vehicle maintenance (non-operational signal light, worn tires, cracked windshield, ineffective wipers) • loose or unsecure objects 	1a. PLAN AHEAD – review/make yourself familiar with maps and driving directions before beginning the drive to the Site. Do not attempt to drive and review maps/directions at the same time. Pull over and stop your vehicle before looking at maps/directions. 1a. Complete a basic vehicle inspection before driving. Verify Inspection and Registration are current, tires and wipers are in good condition, all lights are functional, all glass/mirrors are undamaged, the horn is functional, roof/hood/trunk are free from accumulated snow and visibility is not impaired due to snow/ice/frost/fog on windows. 1a. Do not hang items in car that can obstruct your view or become projectiles in a collision. 1a. Do not get distracted using touch screen radios or GPS units built into newer models. Keep your eyes on the road and stay alert. 1a. Follow posted speed limits and obey traffic signals and roadway signs. 1a. Always wear your seat belt and shoulder harness when driving. 1a. When driving around large vehicles and trucks, maintain extra space as these vehicles may not be able to see a smaller car too close. 1a. Follow the "Rules of the Road" including: using your turn signals, coming to a complete stop, and allowing vehicles the right of way (yield) when they are when traffic laws require. 1a. Apply the Smith Five Keys® of safe driving <ul style="list-style-type: none"> • Aim High in Steering® <ul style="list-style-type: none"> - Expand eye lead time to a minimum of 15 seconds • Get the Big Picture® <ul style="list-style-type: none"> - Maintain proper a 4 second minimum following distance at all times - Scan mirrors every 5-8 seconds to achieve a circle of awareness - Position your vehicle so you can see relevant/non-relevant objects • Keep Your Eyes Moving® <ul style="list-style-type: none"> - Try to maintain about 180 degrees of visibility - Avoid blank and fixed stares. Avoid focusing on one object for more than 2 seconds • Leave Yourself an Out® <ul style="list-style-type: none"> - Avoid traveling in traffic clusters - Surround yourself with space - Anticipate the actions of others 			

Assess 1 JOB STEPS	Analyze 2 POTENTIAL HAZARDS	Act 3 CRITICAL ACTIONS
1. Driving to/leaving Site (cont'd)	<p>1a. CONTACT: Severe injury/disability, property damage, monetary loss (insurance premiums, deductibles, loss of license/job) caused by collision with or struck by other vehicles, obstructions, pedestrians, animals, etc.</p>	<ul style="list-style-type: none"> • Make Sure They See You® <ul style="list-style-type: none"> - Maintain eye contact with on-coming vehicles/pedestrians - Use warning devices (e.g., hand signals, high-lights, horns etc.) - Proper timing is essential <p>1a. Do not perform reconnaissance or inspections while driving. Your vehicle should be parked in a safe location when viewing or surveying the Site and vicinity</p> <p>1a. Avoid sudden turns and stops. Don't drive recklessly – be in control of vehicle at all times.</p> <p>1a. In inclement weather, first determine if work can be POSTPONED. Otherwise, plan according to weather conditions including checking forecast along entirety of travel route (especially, for long distances). Reduce speed as road conditions warrant. Travelling with winter car equipment in the winter is strongly recommended (i.e., shovel, scraper, brush, blanket, extra clothing, flashlight, bag of sand). If your vehicle has 4-wheel drive, review the operators manual and understand operating procedure prior to engaging 4-wheel drive. If at any point on your drive weather becomes too severe to proceed safely pull over if safe to do so or seek nearest cover (e.g., overpass)</p> <p>1a. If feeling drowsy or sleepy, do not drive. Pull over in a safe place to rest if you experience any signs of drowsiness. Make sure to get adequate sleep the night before an early drive.</p> <p>1a. Never operate a vehicle under the influence of alcohol or illegal substances or medications affecting your performance.</p> <p>1a. Keep your eyes on the road. Do not call or talk on cellular phones. Pull over to a safe location if you must answer or make a call.</p> <p>1a. When parking, pull-through when possible. If backing is required visually inspect area to ensure it is free from obstructions prior to backing in and relying solely on mirrors; use spotters when available.</p>
2. Entering/Exiting Vehicle.	<p>2a. CAUGHT: Personal injury (broken fingers/hand) while entering or exiting vehicles</p> <p>2b. FALL: Personal injury (twisted ankle, deep contusion, concussion, broken wrist/arm, etc.) from slip/fall on uneven or unstable or slippery surface while exiting/entering vehicle</p> <p>2c. CONTACT: Severe injury/disability, property damage, monetary loss (insurance premiums, deductibles, loss of license/job) caused by collision with or struck by other vehicles, obstructions, pedestrians, animals, etc.</p>	<p>2a. Open and close doors slowly. Never put hands or feet in between door and vehicle to avoid pinch points.</p> <p>2b. When exiting the vehicle make sure your feet are on firm footing and weight is evenly distributed before exiting/standing. In inclement weather use hands to support yourself, by holding the car door and/or steering wheel, when exiting the vehicle.</p> <p>2c. Check both directions for traffic before opening door. Do not exit vehicle if traffic does not permit you to exit safely</p> <p>2c. Check anticipated path of door prior to opening, do not open door into any obstructions (e.g., bollards, high curbing)</p>

JOB SAFETY ANALYSIS		Ctrl. No. GEN-015	DATE: 01/07/2022	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> REVISED	PAGE 1 of 2
JSA TYPE CATEGORY GENERIC		WORK TYPE Site Recon	WORK ACTIVITY (Description) Mobilization/Demobilization		
DEVELOPMENT TEAM		POSITION / TITLE	REVIEWED BY:	POSITION / TITLE	
Tim Unalp		SHSO	Brian Hobbs	CHSD	
Ray Greenidge		Sr. Compliance Manager			
REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT					
<input type="checkbox"/> LIFE VEST <input checked="" type="checkbox"/> HARD HAT <input type="checkbox"/> LIFELINE / BODY HARNESS <input checked="" type="checkbox"/> SAFETY GLASSES		<input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input checked="" type="checkbox"/> HEARING PROTECTION (as needed) <input checked="" type="checkbox"/> SAFETY SHOES: <u>Steel Toe or composite toe</u>	<input type="checkbox"/> AIR PURIFYING RESPIRATOR <input type="checkbox"/> SUPPLIED RESPIRATOR <input checked="" type="checkbox"/> PPE CLOTHING: <u>Fluorescent reflective vest of high-visibility clothing;</u> <u>long sleeve shirt; long pants</u>	<input checked="" type="checkbox"/> GLOVES: <u>Leather, nitrile, and cut resistant (as needed)</u> <input type="checkbox"/> OTHER	
REQUIRED AND / OR RECOMMENDED EQUIPMENT					
Required Equipment: Varies					
COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs					
EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.					
Assess 1JOB STEPS	Analyze 2POTENTIAL HAZARDS	Act 3CRITICAL ACTIONS			
1. Mobilize/demobilize and establish work area	<p>1a. FALL: Slip/trips/falls from obstructions, uneven terrain, weather conditions, heavy loads, and/or poor housekeeping.</p> <p>1b. CONTACT: Personal injury and/or property damage caused by being struck by Site traffic or equipment used in Site activities.</p>	<p>1a. Use 3 points-of-contact/ensure secure footing when entering and exiting vehicle.</p> <p>1a. Inspect walking path for uneven terrain, steep hills, obstructions, and/or weather-related hazards (i.e., ice, snow, and puddles) prior to mobilizing equipment. Use established pathways. Walk on stable/secure ground.</p> <p>1a. Do not climb over stored materials/equipment; walk around. Practice good housekeeping; organize and store equipment neatly in one area at its lowest potential energy.</p> <p>1a. Wear boots with adequate treads.</p> <p>1a. Delineate unsafe areas with 42" cones, caution tape and/or flagging.</p> <p>1b. Observe and maintain the posted speed limits.</p> <p>1b. When first arriving onsite, park vehicles in designated parking space and/or out of the way locations. Use parking brake on all vehicles and tire chocks on work trucks and trailers.</p> <p>1b. Check in with Site Manager/Supervisor to ensure coordination with other Site activities and to discuss any special hazards. Ensure that short-service employees (SSE) are identified.</p> <p>1b. Identify potential traffic sources.</p> <p>1b. Wear PPE including high visibility clothing or reflective vest.</p> <p>1b. Use a spotter while moving work vehicles; plan ahead to avoid backing whenever possible.</p> <p>1b. Maintain a minimum exclusion zone when vehicles are in motion (i.e. greater than swing/tip radius of equipment). When backing up truck rig with an attached trailer use a second spotter if there is tight clearance simultaneously on multiple sides of the equipment or if turning angles limit driver-to-spotter visibility.</p> <p>1b. Delineate work area with 42" cones, flags, caution tape, and/or other barriers.</p> <p>1b. Position "Work Area" signs at Site entrances, if possible, or at either side of work area.</p>			

Assess ¹ JOB STEPS	Analyze ² POTENTIAL HAZARDS	Act ³ CRITICAL ACTIONS
	<p>1c. CAUGHT: Personal injury from pinch points and being in line-of-fire of vehicle and/or equipment.</p> <p>1d. OVEREXERTION: Muscle strains while lifting/carrying equipment.</p> <p>1e. EXPOSURE: Personal injury from exposure to biological and environmental hazards.</p> <p>1f. EXPOSURE: Weather related injuries.</p> <p>1g. EXPOSURE: Personal injury from noise hazards.</p>	<p>1b. Position largest vehicle to protect against oncoming traffic.</p> <p>1b. Face traffic, maintain eye contact with oncoming vehicles, use a spotter, and establish a safe exit route.</p> <p>1b. Observe potential overhead and ground surface features that may interfere with moving equipment. Clear the path of physical hazards prior to initiating mobilization.</p> <p>1c. Make sure driver has engaged parking brake and placed wheel chocks in a position to prevent movement. Be sure that vehicle is parked in front/down gradient (positioned to best block oncoming traffic) of work area.</p> <p>1c. Wear leather gloves when handling any tools or equipment. Wear cut-resistant gloves (Kevlar or similar) when handling sharp objects/cutting tools/glass.</p> <p>1c. Keep body parts away from line-of-fire of equipment.</p> <p>1c. Always carry tools by the handles and/or designated carrier. Ensure sharp-edged tools are sheathed/secure.</p> <p>1c. Remove any loose jewelry. Avoid wearing loose clothing and/or ensure loose clothing is secure.</p> <p>1c. Secure all items on the equipment, tighten up any items or features that have potential to shift or break during mobilization.</p> <p>1d. Use body positioning and lifting techniques that avoid muscle strain; keep back straight, lift with legs, turn with whole body, keep load close to body, and never reach with a load.</p> <p>1d. Ensure that loads are balanced. Use assistance (mechanical or additional person) to carry equipment that is either unwieldy or over 50 lbs.</p> <p>1e. Inspect area to avoid contact with biological hazards (i.e. poisonous plants, stinging insects, ticks, etc.).</p> <p>1e. Wear long sleeved clothes treated with Permethrin, apply insect repellent containing DEET to exposed skin, and inspect clothes and skin for ticks during and after work.</p> <p>1e. Apply sunscreen (SPF 15+) if exposure to sun for 30 minutes or more is expected.</p> <p>1f. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, nausea, rapid and shallow breathing). Take breaks in cool places and hydrate as needed.</p> <p>1f. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks in warm areas as needed.</p> <p>1f. Wear clothing appropriate for weather and temperature conditions (e.g., rain jackets, snow pants, multiple layers).</p> <p>1f. If lightning is observed, wait 30 minutes in a sheltered location (car is acceptable) before resuming work.</p> <p>1g. Wear hearing protection if sound levels exceed 85 dBA (if you must raise your voice for normal conversation).</p>

JOB SAFETY ANALYSIS		Ctrl. No. GEN-019	DATE: 01/13/2022	<input type="checkbox"/> NEW	PAGE 1 of 2
				<input checked="" type="checkbox"/> REVISED	
JSA TYPE CATEGORY GENERIC		WORK TYPE Site Reconnaissance		WORK ACTIVITY (Description) Site Walk and Inspection	
DEVELOPMENT TEAM		POSITION / TITLE		REVIEWED BY:	
Sara Barrientos		Project Geologist		Brian Hobbs	
Tim Unalp		SHSO		Joe Duminuco	
				Ray Greenidge	
				Sr. Compliance Manager	
REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT					
<input type="checkbox"/> LIFE VEST <input checked="" type="checkbox"/> HARD HAT <input type="checkbox"/> LIFELINE / BODY HARNESS <input checked="" type="checkbox"/> SAFETY GLASSES		<input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input checked="" type="checkbox"/> HEARING PROTECTION: ear plugs as necessary <input checked="" type="checkbox"/> SAFETY SHOES: <u>Steel or composite toed</u>		<input type="checkbox"/> AIR PURIFYING RESPIRATOR SUPPLIED <input type="checkbox"/> RESPIRATOR <input checked="" type="checkbox"/> PPE CLOTHING: <u>High-visibility vest or high-vis outerwear</u>	
				<input checked="" type="checkbox"/> GLOVES: <u>Leather/cut-resistant/chemical resistant</u> <input checked="" type="checkbox"/> OTHER: Tyvek and rubber boots as necessary, dust mask as necessary	
REQUIRED AND / OR RECOMMENDED EQUIPMENT					
Required Equipment: Site map, emergency contact list, documentation of urgent care/hospital routes and / or guide familiar with Site, operating cell phone or walkie-talkie if Site allows, and bug spray.					
Commitment to Safety – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.					
EXCLUSION ZONE (EZ): Maintain Minimum Heavy Equipment Exclusion Zone around equipment and loads while it is in motion. The HEEZ must be greater than the swing zone of any moving part of the equipment, tip zone of the equipment, fall zone of the equipment and contents, distance that debris may travel during demolition activities and/or foot print of a structure to be demolished.					
SITE SECURITY: Prior to site inspection verify appropriate method to address Site Security concerns as it relates to potential criminal activity, homeless population, and/or isolation concerns. Work with the Project Principal and/or Project Manager to address appropriately.					
Assess ¹JOB STEPS		Analyze ²POTENTIAL HAZARDS		Act ³CRITICAL ACTIONS	
1. Check in with Site contact.		1a. CONTACT/EXPOSURE/FALL: Personal injury caused by lack of awareness of site-specific hazards.		1a. Inquire about hazards and other activities taking place at the Site. 1a. Inform Site contact of work scope, timeline and location(s). 1a. Discuss emergency evacuation procedures and muster points with Site contact.	
2. Traversing the Site		2a. CONTACT: Property damage and personal injury caused by obstructions/vehicles or unauthorized personnel at remote Sites. 2b. FALL: Uneven terrain and weather conditions. Overgrown shrubs and vines. Equipment in the work zone. 2c. OVEREXERTION: Muscle strain while carrying equipment. 2d. EXPOSURE: Biological hazards – ticks; bees/wasps; poison ivy; insects; (Ticks are most active any time the temperature is above freezing, typically from March to November.)		2a. All equipment must be stowed and secured prior to moving. 2a. Maintain speed limit as posted on-site. 2a. When possible, drive on established roadways. 2a. Yield to all pedestrians. 2a. Use pull-through spots or back into parking spots. 2a. Don high visibility clothing/safety vest. If working at remote Site, add orange accessories during hunting season. 2b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 2b. When possible, use established pathways and walk on stable, secure ground. 2b. Communicate traversing hazards with others. 2c. When carrying equipment to/from work area, use proper lifting techniques; keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Use the buddy system or mechanical means to maneuver items heavier than 50-lb. If necessary, make multiple trips to carry equipment. 2d. Inspect area to avoid contact with biological hazards. 2d. Ticks: <ul style="list-style-type: none"> Treat outer clothing including pants, shirts, socks, boots and hats the evening before with Permethrin (allowing at least two hours before use). Apply DEET to exposed skin before travelling to the Site and reapply after two hours. Check for ticks during and after work. 2d. Bees: <ul style="list-style-type: none"> Use bee spray as appropriate to deter/eliminate bees. 	

	<p>2e. EXPOSURE: Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.</p>	<ul style="list-style-type: none"> • Protect exposed skin with insect repellent. <p>2d. Poison Ivy:</p> <ul style="list-style-type: none"> • Identify areas of poison ivy and spray with weed killer. Don Tyvek and rubber boots while traversing poison ivy areas. • If skin contacts poison ivy, wash skin thoroughly with soap and water. <p>2e. Wear sunscreen with SPF 15 or greater on exposed skin whenever 30 minutes or more of sun exposure is expected.</p> <p>2e. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed.</p> <p>2e. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed.</p> <p>2e. Wear appropriate rain gear as needed.</p> <p>2e. Take frequent breaks if tired, wet, or cold/hot. Drink water.</p> <p>2e. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.</p>
<p>3. Walking near heavy equipment and machinery.</p>	<p>3a. CONTACT: Personal injury from Site and roadway traffic. Personal injury from flying debris</p> <p>3b. OVEREXERTION: Personal injury from lifting/moving/rotating equipment.</p> <p>3c. EXPOSURE: Hearing damage from noise generating equipment/processes. Inhalation/exposure to hazardous vapors and or dust.</p> <p>3d. EXPOSURE: Working in a remote area.</p>	<p>3a. See 2a.</p> <p>3a. Maintain an exclusion zone of at least 10'-25' feet from all engaged equipment.</p> <p>3a. Keep body parts out of the line-of-fire of pinch points.</p> <p>3a. Wear appropriate PPE always.</p> <p>3b. See 2c.</p> <p>3c. Wear hearing protection if >85 dBA. (i.e. noise levels which require you to raise your voice to communicate)</p> <p>3c. Always wear leather gloves when handling any tools or equipment.</p> <p>3c. Always wear appropriate PPE based off chemicals present.</p> <p>3d. Use the "buddy system" whenever possible. If working alone, contact PM upon arrival/departure, as well as during work activities prior to commencing work if applicable.</p> <p>3d. Always carry a communication device (i.e., cell phone, walkie-talkie) or directional (i.e., map, compass, etc.) when traversing remote areas.</p> <p>3d. If available, follow Lone Worker Protocol/Procedure.</p>
<p>4. Working in adverse weather conditions.</p>	<p>4a. EXPOSURE: Heat Stress & Cold Stress. Personal injury from working in inclement weather conditions.</p>	<p>4a. Watch for heat stress symptoms (muscle cramping, exhaustion, dizziness, rapid and shallow breathing). Take breaks as needed.</p> <p>4a. Watch for cold stress symptoms (severe shivering, slowing of body movement, weakness, stumbling or inability to walk, collapse). Take breaks as needed.</p> <p>4a. Wear appropriate rain gear as needed.</p> <p>4a. Take frequent breaks if tired, wet, or cold/hot. Drink water.</p> <p>4a. If lightning is observed, wait 30 minutes after last thunder boom/lightning bolt in a sheltered location (car acceptable) before starting work again.</p>
<p>5. Departing Site.</p>	<p>5a. EXPOSURE: Exposure to unnecessary hazards should personnel believe Roux is on-Site during an emergency and conduct a search.</p>	<p>5a. Sign out or notify Site contact and Roux Project Manager of your departure.</p>

JOB SAFETY ANALYSIS		Ctrl. No. LA-018	DATE: 10/25/2023	<input checked="" type="checkbox"/> NEW <input type="checkbox"/> REVISED	PAGE 1 of 2
JSA TYPE CATEGORY Generic		WORK TYPE Construction	WORK ACTIVITY (Description) Setting ambient air canisters on ladders		
DEVELOPMENT TEAM		POSITION / TITLE	REVIEWED BY:	POSITION / TITLE	
Cassandra Walker		Staff Geologist	Ali Rice	OHSM	
REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT					
<input type="checkbox"/> LIFE VEST <input checked="" type="checkbox"/> HARD HAT <input checked="" type="checkbox"/> LONG SLEEVED SHIRT <input type="checkbox"/> LIFELINE / BODY HARNESS <input checked="" type="checkbox"/> SAFETY GLASSES		<input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input type="checkbox"/> HEARING PROTECTION <input checked="" type="checkbox"/> SAFETY SHOES: <u>Steel-toe boots</u>	<input type="checkbox"/> AIR PURIFYING RESPIRATOR <input type="checkbox"/> SUPPLIED RESPIRATOR <input checked="" type="checkbox"/> PPE CLOTHING: <u>High visibility long sleeved clothing</u>	<input checked="" type="checkbox"/> GLOVES: <u>Leather or cut resistant</u> <input type="checkbox"/> OTHER	
REQUIRED AND / OR RECOMMENDED EQUIPMENT					
Ladder(s)					
COMMITMENT TO SAFETY- All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs					
Assess 1JOB STEPS		Analyze 2POTENTIAL HAZARDS		Act 3CRITICAL ACTIONS	
1. Drive/walk to sampling location		1a. CONTACT: Property damage and personal injury caused by obstructions/vehicles 1b. FALL: Personal injury from tripping/falling due to uneven terrain, weather conditions, and materials/equipment stored at portions of the Site. 1c. EXERTION: Muscle strain/exhaustion while carrying equipment (i.e., hand auger, post-hole digger, shovel, pry bar)		1a. Maintain speed limit on-site. 1a. All equipment must be stowed and secured prior to moving. 1a. Drive on established roadways. 1a. Do not back up vehicles without a spotter where visibility is limited; use pull-through spots or back into parking spots; use an audible signal (horn/back-up alarm) when backing up vehicles. 1b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment. 1b. Do not climb over stored materials/equipment; walk around. Use established pathways and walk on stable, secure ground. 1b. Use established ramp when descending into/ascending from impoundment areas. 1b. Keep tools and equipment in a designated area. When not in use, tools and equipment must be returned to their proper storage location. Keep work area clear of obstructions. 1c. When carrying equipment to/from work area, use proper lifting techniques; keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced to reduce the potential for muscle strain. Use mechanical assistance or make multiple trips to carry equipment.	

<p>2. Secure Work Area</p>	<p>2a. CONTACT: Personnel and vehicular traffic may enter the work area.</p> <p>2b. FALL: Tripping/falling due to uneven terrain, and materials /equipment stored within the work area</p>	<p>2a. Delineate the work area with traffic cones and/or caution tape to prevent exposure to traffic and inform others of work activity.</p> <p>2a. Wear high visibility clothing (adhere to site-specific PFAS-free restrictions, if applicable).</p> <p>2a. Face the direction of vehicular traffic. Position vehicle to protect workers from traffic.</p> <p>2a. Communicate work activity with adjacent work areas.</p> <p>2b. Inspect walking path for uneven terrain, weather-related hazards (i.e., ice, puddles, snow, etc.), and obstructions prior to mobilizing equipment to the impoundments.</p> <p>2b. Equipment and tools (ladder) will be staged in a convenient, stable, and orderly manner.</p> <p>2b. Equipment and tools (ladder) will be stored at the lowest point of potential energy and out of the walkway and immediate work area (i.e., tools should not be propped against walls or nearby equipment or vehicles).</p> <p>2b. Equipment and tools that are not anticipated to be used will be returned to an appropriate storage area that is out of the immediate work area.</p>
<p>Assess ¹JOB STEPS</p>	<p>Analyze ²POTENTIAL HAZARDS</p>	<p>Act ³CRITICAL ACTIONS</p>
<p>3. Set air canister on self-supporting ladder 4-6 feet off the ground</p>	<p>3a. CONTACT: Falling objects from ladder or falling ladder may cause injury.</p> <p>3b. CAUGHT/PINCH: Personal injury as a result of jewelry/loose clothing caught on edges of ladder, pinch points.</p> <p>3c. FALL: Tripping/falling due to small footholds, handling equipment while trying to keep balance</p> <p>3d. ERGONOMICS: Muscle strain while lifting and carrying equipment.</p>	<p>3a. Place self-supporting ladder on even ground at area for ambient air sampling. When opening, be careful not to hold it near hinges. Wear cut-resistant gloves if necessary.</p> <p>3b. No form of jewelry should be worn while on-site.</p> <p>3b. Clothing must be appropriately sized, so it is not loose fitting.</p> <p>3c. Place air canister at desired height without climbing on ladder if possible.</p> <p>3c. If the ladder is to be climbed, make sure to always use both hands when climbing the ladder and only step on the lower rungs. Do not climb higher than necessary. If accompanied by a buddy, climb the ladder to necessary height, then have the air canister handed off by buddy. Maintain a firm hold on the ladder at all times when on ladder.</p> <p>3c. Ensure the ladder is stable and the air canister is secure.</p> <p>3d. When carrying equipment to/from work area, keep back straight, lift with legs, keep load close to body, never reach with a load. Ensure that loads are balanced. Use mechanical assistance/make multiple trips to carry equipment.</p>

Safety Data Sheets (SDSs) for Chemicals Used

Roux COVID-19 Interim Health & Safety Guidance



COVID-19 INTERIM HEALTH AND SAFETY GUIDANCE

CORPORATE HEALTH AND SAFETY MANAGER : **Brian Hobbs, CIH, CSP**
EFFECTIVE DATE : **03/2020**
REVISION DATE : **09/21/2022**
REVISION NUMBER : **9**

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APPENDICES

- A. Subcontractor Work Crew COVID-19 Daily Health Attestation
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1. PURPOSE

This guidance has been implemented to establish work practices, administrative procedures, and engineering controls to minimize potential exposure to SARS-CoV-2, the virus that causes COVID-19. The following guidance has been developed based on local, state and federal recommendations/requirements regarding COVID-19. The purpose of this document is to supplement existing site-specific Health and Safety Plans (HASP) and provide interim health and safety guidance to minimize potential exposure to SARS-CoV-2. Should additional scientific information or regulatory information change, this document shall be updated accordingly.

2. SCOPE AND APPLICABILITY

This guidance covers all Roux employees and the subcontractors that Roux oversees. Site specific HASPs shall be developed to incorporate elements of mitigative measures against COVID-19 exposure. If work cannot be carried out in compliance with this guidance, the project shall be further evaluated by the Project Principal (PP), Office Manager (OM), and Corporate Health and Safety Director (CHSD) prior to work authorization.

Roux subcontractors are required to review, comply with, and implement Roux's COVID-19 Interim Health and Safety Guidance while on Site. Subcontractors may implement additional preventative measures as they see fit. All work shall be conducted in a manner consistent with the federal, state, and local guidance as it relates to COVID-19.

3. BACKGROUND

What is COVID-19?

COVID-19 is a respiratory disease caused by SARS-CoV-2, a coronavirus discovered in 2019. The virus spreads mainly from person to person through respiratory droplets produced when an infected person coughs, sneezes, or talks. Some people who are infected may not have symptoms. Multiple variants of the virus that causes COVID-19 are circulating globally. There are currently several vaccines which have been developed which are authorized, recommended and effective at protecting you from getting sick.

What are the symptoms of COVID-19?

Reported illnesses have ranged from mild symptoms to severe illness and death for confirmed COVID-19 cases. Symptoms may appear 2 to 14 days following exposure to the virus. People with these symptoms or combinations of symptoms may have COVID-19:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea

This list is not all possible symptoms. The CDC will continue to update this list as they learn more about the virus. For an updated symptom list please reference the [following link for CDC Symptoms of Coronavirus](#).

If someone develops emergency warning signs for COVID-19, they should be instructed to get medical attention immediately. Emergency warning signs can include those listed below; however, this list is not all inclusive. Please consult your medical provider for any other symptoms that are severe or concerning.

- Trouble breathing
- Persistent pain or pressure in the chest
- New confusion
- Inability to wake or stay awake
- Pale, gray, or blue-colored skin, lips, or nail beds, depending on skin tone

How does COVID-19 spread?¹

Individuals who are within close contact (within 6 feet) of a person with COVID-19 or have direct contact with that person are at greatest risk of infection.

COVID-19 spreads in three main ways:

- Breathing in air when close to an infected person who is exhaling small droplets and particles that contain the virus.
- Having these small droplets and particles that contain virus land on the eyes, nose, or mouth, especially through splashes and sprays like a cough or sneeze.
- Touching eyes, nose, or mouth with hands that have the virus on them.

Transmission of SARS-CoV-2 from inhalation of virus in air farther than six feet from an infectious source can occur.

Some infections can be spread by exposure to virus in small droplets and particles that can linger in the air for minutes to hours. These viruses may be able to infect people who are further than 6 feet away from the person who is infected or after that person has left the space. This kind of spread is referred to as **airborne transmission** and is an important way that infections like tuberculosis, measles, and chicken pox are spread. Per published reports, factors that increase the risk of SARS-CoV-2 infection under these circumstances include:

- Enclosed spaces with inadequate ventilation or air handling within which the concentration of exhaled respiratory fluids, especially very fine droplets and aerosol particles, can build-up in the air space.
- Increased exhalation of respiratory fluids if the infectious person is engaged in physical exertion or raises their voice (e.g., exercising, shouting, singing).
- Prolonged exposure to these conditions, typically more than 15 minutes.

Spread from contact with contaminated surfaces or objects is less common.

Respiratory droplets can also land on surfaces and objects. It is possible that a person could get COVID-19 by touching a surface or object that has the virus on it and then touching their own mouth, nose, or eyes. Spread from touching surfaces is not thought to be a common way that COVID-19 spreads.

4. TRAINING REQUIREMENTS

All employees with potential exposure to COVID-19 shall be provided training that incorporates COVID-19 exposure mitigation strategies, such as implementation of proper social distancing, personal hygiene (e.g., handwashing), as well as disinfection procedures, as outlined by CDC guidelines.

5. EXPOSURE RISK POTENTIAL

Worker risk of occupational exposure to COVID-19 can vary from very high, high, medium, or lower (caution) risk. This level of exposure is dependent on several factors, which can include industry type; need for contact within 6 feet of people known to be or suspected of being infected with COVID-19; density of work environment; and industrial setting (i.e., healthcare building, occupied interior work area, minimal ventilation).

Provided below is background risk level information taken from the U.S. Department of Labor Occupational Safety and Health Administration Guidance on preparing workplaces for COVID-19. Risk evaluations for each project shall be conducted by the PP and OM in consultation with the CHSD to ensure Roux employees and subcontractors remain within the lower exposure (caution) category. If it is identified there is a medium exposure risk or higher, further evaluation and mitigative measures shall be evaluated to reduce overall exposure risk prior to work authorization.

¹ How COVID-19 Spreads <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html#edn1>



Very High Exposure Risk (Activities not conducted by Roux)

Very high exposure risk includes occupations/work activities with high potential for exposure to known or suspected sources of COVID-19 during specific medical, postmortem, or laboratory procedures. This can include but is not limited to:

- Healthcare workers (e.g., doctors, nurses, dentists, paramedics, emergency medical technicians) performing aerosol-generating procedures (e.g., intubation, cough induction procedures, bronchoscopies, some dental procedures and exams, or invasive specimen collection) on known or suspected COVID-19 patients.
- Healthcare or laboratory personnel collecting or handling specimens from known or suspected COVID-19 patients (e.g., manipulating cultures from known or suspected COVID-19 patients).
- Morgue workers performing autopsies, which generally involve aerosol-generating procedures on the bodies of people who are known to have, or suspected of having, COVID-19 at the time of their death.

High Exposure Risk (Activities not conducted by Roux)

High exposure risk occupations/work activities include exposure to known or suspected COVID-19 positive individuals. This can include but not limited to:

- Healthcare delivery and support staff (hospital staff who must enter patients' rooms) exposed to known or suspected COVID-19 patients.
- Medical transport workers (ambulance vehicle operators) moving known or suspected COVID-19 patients in enclosed vehicles.
- Mortuary workers involved in preparing bodies for burial or cremation of people known to have, or suspected of having, COVID-19 at the time of death.
- Those who have frequent or sustained contact with coworkers, including under close working conditions indoors or in poorly ventilated spaces in various types of industrial, manufacturing, agriculture, construction, and other critical infrastructure workplaces.
- Those who have frequent indoor or poorly ventilated contact with the general public, including workers in retail stores, grocery stores or supermarkets, pharmacies, transit and transportation operations, law enforcement and emergency response operations, restaurants, and bars.

Medium Exposure Risk

Medium exposure risk occupations/work activities include those that require frequent and/or close contact with (i.e., within 6 feet for a cumulative total of 15 minutes or more over a 24-hour period)) people who may be infected with COVID-19, but who are not known or suspected to be COVID-19 positive. For most of our worksites, it is assumed there is on-going community transmission for COVID-19. Therefore, workers who work at sites and may have contact with the general public, other contractors, high-population-density work environments (i.e., greater than 10 people) fall within medium exposure risk group category. This can include, but is not limited to, sampling events that require two or more workers to collect and log samples in close contact or work occurring in an interior space with limited ventilation and several workers present.

Lower Exposure Risk (Caution)

Lower exposure risk (caution) occupations/work activities are those that do not require close contact (within 6 feet for a cumulative total of 15 minutes or more over a 24-hour period) with other people. During these activities, there is limited contact (i.e., within 6 feet of) the general public or other workers. Workers in this category have minimal occupational contact with the public and other coworkers. This includes construction oversight that does not require close contact, sampling or gauging events performed by one worker and our remote workers as well as office workers who do not have frequent close contact with coworkers, clients, or the public.

6. CDC FULLY VACCINATED GUIDANCE

You are up to date with your COVID-19 vaccines if you have completed a COVID-19 vaccine primary series and received the most recent booster dose recommended for you by CDC. Additional information concerning vaccinations can be found at the [following link](#).

7. COVID-19 HEALTH SCREENING

7.1 Roux Employees

Depending on local/state/client requirements, Roux employees may self-attest to a COVID-19 Daily Health Questionnaire that is to be completed at home through a mobile application on scheduled workdays. The purpose of this program is to ensure business continuity as well as mitigate any potential exposure to our employees and others if it is determined employees are at-risk for contracting COVID-19. As part of this self-attestation, all employees are required to take their temperatures daily at home to confirm they do not have a fever (≥ 100.4). Employees who answer yes to any of these questions are instructed to contact their Office Manager and/or Department Head immediately and should not enter the office or go to a field site. Information shall be used to determine appropriate internal response in consultation with the Human Resources Director (HRD) and CHSD.

Below, you will find our COVID-19 Daily Health Questionnaire that all Roux employees are required to self-attest to **every scheduled workday by 9:30 AM**. If employees do not promptly fill out the questionnaire by the time listed above, there will be additional follow up by HR, H&S, and/or OMs.

According to the U.S. Centers for Disease Control and Prevention & the World Health Organization, COVID-19 Symptoms include:

- *Fever ($\geq 100.4^{\circ}F$) or chills*
- *Cough*
- *Shortness of breath or difficulty breathing*
- *Fatigue*
- *Muscle or body aches*
- *Headache*
- *New loss of taste or smell*
- *Sore throat*
- *Congestion or runny nose*
- *Nausea or vomiting*
- *Diarrhea*

Have you experienced any of the COVID-19 related symptoms noted above in the last 14 days? Please Note: We do not expect employees to answer “yes” to the symptoms question if these are symptoms you normally experience due to another condition or medication.

- Yes
- No

Have you been in close contact with someone who is suspected or confirmed to have COVID-19 or who is under investigation for COVID-19 within the last 14 days? * Close contact as defined by the CDC is being within 6 feet of someone who has COVID-19 for a cumulative total of 15 minutes or more over a 24-hour period.*

- Yes
- No

Have you traveled outside of the country, been on a cruise ship and/or traveled to areas within the United States which have state mandated travel restrictions in the last 14 days?

- Yes
- No

Have you tested positive for COVID-19 within the last 14 days?

- Yes
- No

7.2 Subcontractors

Depending on local/state/client requirements, Subcontractors who shall perform work onsite may be required to attest to the fitness of their work crew on a daily basis. This requires each worker to self-assess by asking themselves the four questions listed in the section above and also contained within the Roux Subcontractor Work Crew COVID-19 Daily Health Attestation. If any crew member answers “Yes” to any of the questions, that worker is not to report to the field site and should seek proper medical advice in accordance with local, state and federal guidelines. In addition if required by local/state/client requirements, the Sub-Contractor shall self-attest to vaccination status in order for the Field Team to ensure conformance with updated guidance for fully vaccinated individuals should state/local/client requirements allow. See Section 6. CDC Fully Vaccinated Guidance.

On a daily basis, the subcontractor supervisor must provide the Subcontractor Work Crew COVID-19 Daily Health Attestation complete with the names of all work crew fit to be on the Site for that day (i.e., who have answered “No” to all questions on the self-assessment) to Roux’s Project Manager or Site Supervisor. The Subcontractor must notify Roux if there have been any “Yes” responses daily. Subcontractors shall not be required to provide the name or any other personal information of any employee who has answered “Yes” to any of the self-assessment questions, however, the Subcontractor should provide the date and times that the employee has been onsite in the prior 14 days. Records shall be maintained within the project files indicating health screening has been performed, records shall be retained for not less than 14 days following the date of submission. The Roux Subcontractor Work Crew COVID-19 Daily Health Check Attestation can be found within Appendix A.

8. SELF-ISOLATION & QUARANTINE

8.1 Self-Isolation

What if I am asked to self-isolate at home and when can I return from home isolation?

Depending on the situation, if you are COVID-19 positive or suspected to have COVID-19, employees may be required to self-isolate in their homes, as per CDC or local health department guidelines. Roux shall follow CDC guidance in areas where local/state requirements allow. The following table below outlines CDC isolation guidance.

Day 0 is your first day of symptoms or a positive viral test. Day 1 is the first full day after your symptoms developed or your test specimen was collected. If you have COVID-19 or have symptoms, isolate for at least 5 days.

<p>IF YOU Tested positive for COVID-19 or have symptoms, regardless of vaccination status:</p>	<p>Stay home for at least 5 days Stay home for 5 days and isolate from others in your home. Wear a well-fitted mask if you must be around others in your home.</p>	<p>Ending isolation if you had symptoms End isolation after 5 full days if you are fever-free for 24 hours (without the use of fever-reducing medication) and your symptoms are improving. Ending isolation if you did NOT have symptoms End isolation after at least 5 full days after your positive test. If you were severely ill with COVID-19 You should isolate for at least 10 days. Consult your doctor before ending isolation.</p>	<p>Take precautions until Day 10 Wear a mask Wear a well-fitted mask for 10 full days any time you are around others inside your home or in public. Do not go to places where you are unable to wear a mask. Avoid travel Avoid being around people who are at high risk</p>
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8.2 Quarantine

Employees may be required to self-quarantine due to potential exposure with a suspected and/or confirmed COVID-19 positive individual as well as recent travel as per local/state guidelines. Consult with your OM regarding whether your situation requires quarantine following close contact. People in quarantine should stay home, separate themselves from others, monitor their health, and follow directions from their state or local health department.

8.2.1 Travel Related Quarantine/Testing

All travel out of state must be communicated with the OM and/or Department Head prior to departure. Please note, some federal/state/local entities require submissions of traveler health forms and potentially require additional testing for COVID-19. It is expected all Roux employees will comply with such federal/state/local travel requirements.

9. WORKPLACE CONTROLS

During the project planning phase, worksite evaluations shall be carried out by the PP and OM in consultation with the CHSD to determine risk exposure levels for work activities. If it is determined there is a high exposure risk level or higher, additional workplace controls shall be evaluated and implemented as required in addition to the basic infection prevention measures outlined below in Section 10. Additional workplace controls can include engineering controls (i.e., ventilation, physical barriers), administrative controls (i.e., minimizing contact between workers, rotating shifts, site specific training), and additional personal protective equipment (i.e., respiratory protection). If exposure risk cannot be mitigated, potential project postponement may be necessary at the discretion of the OM in consultation with the CHSD.

A Job Safety Analysis (JSA) has been developed and is provided in Appendix B, which summarizes and applies concepts within this guidance, including the infection prevention measures listed below. This JSA shall be required for all fieldwork in areas where there is community-based transmission of COVID-19.

10. INFECTION PREVENTION MEASURES

The following is basic infection prevention and personal hygiene practices which shall be implemented for all Roux field activities as well as in the office setting.

- **Personal Hygiene**
 - Wash your hands often with soap and water for at least 20 seconds.
 - If soap and water are not available, use an alcohol-based sanitizer that contains at least 60% alcohol.
 - Key times to wash your hands include after blowing your nose, coughing or sneezing, after using the restroom, and before eating or preparing food.
 - Do not touch your eyes, face, nose and mouth with unwashed hands.
 - Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow.
 - Throw potentially contaminated items (e.g., used tissues) in the trash.
- **Avoid Close Contact/Secondary Contact with People and Potentially Contaminated Surfaces**
 - Apply appropriate social distance (6+ feet), as appropriate.
 - Do not work in areas with limited ventilation with other Site workers (e.g., small work trailer which lacks HVAC system).
 - Morning tailgate/safety meetings are recommended to occur outside or in well ventilated work trailers.
 - Contact your lab/equipment vendor to confirm equipment is properly disinfected prior to being shipped.
 - Do not carpool with others unless all individuals are comfortable with traveling together.
 - For company owned vehicles limit sharing of vehicles with coworkers. If unable to limit sharing of company owned vehicles, properly clean vehicle before driving with a focus on commonly touched surfaces (e.g., steering wheels, shifters, buttons, etc.).
 - Use caution when using public restrooms, portable toilets. Use paper towel as a barrier when touching door handles and faucets.
- **Cleaning and Disinfecting**
 - Clean high touched surfaces daily. Examples of high-touch surfaces include: counters, tables, doorknobs, handles, stair rails, desks, toilets, faucets, and sinks. In most situations, regular cleaning (at least once a day) is enough to sufficiently remove virus that may be on surfaces. However, if certain conditions apply, you may choose to disinfect after cleaning. When there is no confirmed or suspected COVID-19 cases known to have been in a space, cleaning once a day is usually enough to sufficiently remove virus that may be on surfaces and help maintain a healthy facility.
 - You may want to either clean more frequently or choose to disinfect in addition to cleaning in shared spaces if the space:
 - Is a high traffic area, with a large number of people,
 - Is poorly ventilated,
 - Does not provide access to handwashing or hand sanitizer, or
 - The space is occupied by individuals at increased risk for severe illness.

If a someone who tested or is presumed COVID-19 positive and has been in your facility within the last 24 hours, you should clean and disinfect the space. This will be done in consultation with the CHSD.

The following outlines cleaning and disinfection protocols for specific types of surfaces as required. Please consult with the CHSD when developing site-specific cleaning and disinfection protocols.

- **Hard (Non-porous) Surfaces**

- If surfaces are dirty, they should be cleaned with a detergent/soap and water prior to disinfection.
- Refer to the manufacturer's instructions to ensure safe and effective use of the product and wear appropriate personal protective equipment (e.g., gloves, safety glasses, face shield).
- Many products require:
 - Keeping surface wet for a period of time (i.e., contact time).
 - Refer to manufacturer's instructions outlining adequate contact time.
 - Precautions such as wearing gloves and making sure you have good ventilation during use of the product.
- Disposable gloves should be removed aseptically and discarded after cleaning. Wash hands immediately following removal of gloves. Refer to Appendix C for how to remove gloves aseptically.
- If products on [EPA List N: Disinfectants for Coronavirus \(COVID-19\)](#) are not available, bleach solutions can be used if appropriate for the surface and will be effective against coronaviruses when properly diluted.
 - Most household bleach contains 5%–9% sodium hypochlorite. Do not use a bleach product if the percentage is not in this range or is not specified, such as some types of laundry bleach or splash-less bleach as these are not appropriate for disinfection.
 - Follow the directions on the bleach bottle for preparing a diluted bleach solution. If your bottle does not have directions, you can make a bleach solution for disinfecting by mixing:
 - 5 tablespoons (1/3 cup) of bleach per gallon of room temperature water; OR
 - 4 teaspoons of bleach per quart of room temperature water.
 - Follow the manufacturer's application instructions for the surface. If instructions are not available, leave the diluted bleach solution on the surface for at least 1 minute before removing or wiping. This is known as the "contact time" for disinfection. The surface should remain visibly wet during the contact time.
 - Ensure proper ventilation during and after application (for example, open windows).
 - Never mix household bleach (or any disinfectants) with any other cleaners or disinfectants. This can cause vapors that may be very dangerous to breathe in.
 - Make a new diluted bleach solution daily. Bleach solutions will not be as effective after being mixed with water for over 24 hours. [Products with EPA-approved emerging viral pathogen claims are expected to be effective against COVID-19](#). Follow the manufacturer's instructions for all cleaning and disinfecting products (e.g., concentration, application method and contact time, etc.).

- **Soft (Porous) Surfaces**

- For soft (porous) surfaces, remove visible contamination if present and clean with appropriate cleaners indicated for use on the surfaces. After cleaning:
 - Launder items as appropriate in accordance with the manufacturer's instructions. If possible, launder using the warmest appropriate water setting for the item and dry items completely; or
 - Use products with the EPA-approved emerging viral pathogens that claim they are suitable for porous surfaces.

- **Electronics**

- For electronics such as tablets, touch screens, keyboards, remote controls, etc. remove visible contamination if present.
 - Follow the manufacturer's instructions for all cleaning and disinfection products.
 - Consider use of wipeable covers for electronics.
 - If no manufacturer guidance is available, consider the use of alcohol-based wipes or sprays containing at least 70% alcohol to disinfect touch screens. Dry surfaces thoroughly to avoid pooling of liquids.

- **Linens, Clothing, and Other Items that Go in the Laundry**

- Although it is unlikely field clothing would become potentially contaminated with COVID-19, it is recommended that field staff regularly launder field clothing following any field event upon returning home.
- In order to minimize the possibility of dispersing the virus from potentially contaminated clothing, do not shake dirty laundry.
- Wash items as appropriate in accordance with the manufacturer's instructions. If possible, launder items using the warmest appropriate water setting for the items and dry items completely.
- Clean and disinfect hampers or other containers used for transporting laundry according to guidance listed above.

- **Office/Site Specific-Cleaning and Disinfection Protocols**

- Each office and long-term field site shall develop internal cleaning and disinfecting practices, which can be broken into three categories: routine cleaning; enhanced cleaning and disinfecting; and deep cleaning and disinfecting.
- In the instance there is someone who is suspected or confirmed positive for COVID-19 and has worked at the office or field site within the last 24 hours, deep cleaning and disinfecting shall be considered. The CHSD shall work with the OM and Office Health and Safety Manager (OHSM) to evaluate site-specific measures that shall be carried out prior to deep cleaning and disinfecting. If more than 24 hours have passed since the person who is sick or diagnosed with COVID-19 has been in the space, cleaning shall be carried out. You may choose to also disinfect depending on certain conditions and in consultation with the CHSD.
- If deep cleaning and disinfection is carried out the following will be considered:
 - Closing off all areas potentially affected and wait at least several hours before you clean and disinfect.
 - Areas should remain closed off until cleaning and disinfecting takes place; if able, ventilation shall be increased in the space (e.g., opening doors, windows, increasing CFM).

11. FACE COVERINGS

The CDC recommends the use of face coverings/masks in public settings where other social distancing measures are difficult to maintain. Masks are required on planes, buses, trains and other forms of public transportation traveling into, within, or out of the United States and in U.S. indoor transportation hubs such as airports and stations. The use of face coverings is to supplement and NOT replace the existing practices outlined above.

Based on existing studies and on-going recommendations and/or requirements from federal, state, and local entities, Roux is recommending the use of face coverings, when appropriate. Appropriate use is defined when local authorities or clients require the use of face coverings in conjunction with established social distancing, or if an employee elects to use a cloth covering on their own accord. Roux will provide appropriate face coverings that shall meet the basic requirements outlined by the CDC guidance.

Face Coverings (i.e., masks) should:

- Have two or more layers;
- Completely cover the nose and mouth;
- Fit snugly against the sides of the face and not have any gaps; and
- Have a nose wire to prevent air from leaking out of the top of the mask.

When donning and doffing the face covering, individuals should avoid touching their eyes, nose, and mouth. Following removal of the face covering, employees should wash their hands immediately using the guidelines described in Section 10 Infection Prevention Measures-Personal Hygiene above. Face coverings should be routinely washed depending on the frequency of use.

APPENDIX A

Roux Subcontractor Work Crew COVID-19 Daily Health Screening Questionnaire

Subcontractor Work Crew COVID-19 Daily Health Attestation

Date:	
Company Name:	
Supervisor Name:	Signature:
Project Name:	
Site Address:	
Number of Workers on site:	
<p>Prior to entry onto a field site, the following questions shall be asked by the Subcontractor Supervisor to their work crew. Subcontractors and Field Teams shall self-attest to vaccination status in order to ensure compliance with state/local guidance for fully vaccinated and unvaccinated individuals.</p> <p>It is preferred this questionnaire is completed for each individual prior to their arrival at the field site. If the answer to any of these questions is YES, the worker is not to report to the field site and seek proper medical advice, in accordance with CDC Guidelines. The Subcontractor Supervisor must provide this form on a daily basis to the Roux primary contact for the project and notify Roux of any YES responses.</p>	
1. Have you experienced any signs/symptoms of COVID-19 such as fever ($\geq 100.4^{\circ}\text{F}$), cough, shortness of breath, chills, fatigue, muscle/body aches, headache, new loss of taste or smell, sore throat, congestion or runny nose, nausea/vomiting or diarrhea in the last 5 days?	
2. Have you been in close contact* with someone who is suspected or confirmed to have COVID-19 or who is under investigation for COVID-19 within the last 5 days? *Close contact as defined by the CDC is being within 6 feet of someone who has COVID-19 for a cumulative total of 15 minutes or more over a 24-hour period. Those who are up to date on COVID-19 vaccinations or had confirmed COVID-19 within the past 90 days (you tested positive using a viral test) you do not need to quarantine.	
3. Have you traveled outside of the country, been on a cruise ship and/or traveled to areas within the United States which have state mandated travel restrictions in the last 5 days?	
4. Have you tested positive for COVID-19 within the last 5 days?	
Please list the crew member's names on site for the day.	
1.	8.
2.	9.
3.	10.
4.	11.
5.	12.
6.	13.
7.	14.

APPENDIX B

Job Safety Analysis-Working in Areas Affected by COVID-19

JOB SAFETY ANALYSIS Ctrl. No. CVD-19		DATE: 01/10/2022	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> REVISED	PAGE 1 of 2
JSA TYPE CATEGORY Generic	WORK TYPE Fieldwork	WORK ACTIVITY (Description) Working in Areas Affected by Coronavirus		
DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE	
Kristina DeLuca	Health and Safety Specialist	Brian Hobbs	CHSD	
REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT				
<input type="checkbox"/> LIFE VEST <input checked="" type="checkbox"/> HARD HAT – In field <input type="checkbox"/> LIFELINE / BODY HARNESS <input checked="" type="checkbox"/> SAFETY GLASSES – In field	<input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input type="checkbox"/> HEARING PROTECTION <input checked="" type="checkbox"/> SAFETY SHOES – Steel/composite toe in fie	<input type="checkbox"/> AIR PURIFYING RESPIRATOR <input type="checkbox"/> SUPPLIED RESPIRATOR <input checked="" type="checkbox"/> PPE CLOTHING – High visibility vest in field	<input checked="" type="checkbox"/> GLOVES – Leather/cut-resistant in field and nitrile as needed <input type="checkbox"/> OTHER	
REQUIRED AND / OR RECOMMENDED EQUIPMENT				
Face covering/mask, nitrile gloves, hand soap, water source, hand sanitizer, disinfectant spray and disinfectant wipes.				
Commitment to Safety – All personnel onsite will actively participate in SPSA performance by verbalizing SPSAs throughout the day.				
SOCIAL DISTANCING: Maintain 6' of distance between yourself and all other people at all times. If you do not believe the scope of work can be conducted while maintaining this distance, contact your Project Manager immediately.				
Assess ¹ JOB STEPS	Analyze ² POTENTIAL HAZARDS	Act ³ CRITICAL ACTIONS		
1. Project Preplanning	N/A	<ul style="list-style-type: none"> Review and follow COVID-19 CDC, Roux, Client and local orders/protocols. Ensure all workers are fit for duty - anyone feeling sick should remain at home even if symptoms do not align with COVID-19. If a worker has been in contact with someone potentially positive or positive for COVID-19, contact your Office Manager. Determine PPE needs and ensure adequate supply of disinfectant wipes/spray, soap and water or hand sanitizer at Site. Due to high demands and limited supply, plan ahead. Use the minimum number of employees necessary to safely complete the work. 		
2. Mobilization	Exposure: Becoming infected or infecting co-workers	<p>Personal/Rental/Roux Owned Vehicle</p> <ul style="list-style-type: none"> Avoid carpooling, unless all individuals are up to date on vaccinations. Verify workers/other people are not approaching vehicle prior to exiting the vehicle. Maintain 6' of distance from general public, as appropriate. <p>Public Transportation</p> <ul style="list-style-type: none"> Public transit should not be used unless absolutely necessary. Consider renting a car rather than taking public transit. If public transit is required, wear appropriate face covering/mask and apply social distancing (6 ft). Wash hands or use hand sanitizer immediately after. <p>Hotel Stay (Refer to COVID-19 H&S Guidance for more info)</p> <ul style="list-style-type: none"> If a hotel stay is deemed necessary for the given field work, ensure that you clean your room upon initial arrival. Place the "Do Not Disturb" placard on the room while away and limit housekeeping services to the extent feasible during your stay to minimize the reintroduction and spread of the virus from others.. Wash hands or use hand sanitizer often. 		
3. Tailgate Meeting	Exposure: Becoming infected or infecting co-workers	<ul style="list-style-type: none"> Perform outside or indoors in areas with ample ventilation. If unvaccinated, maintain at least a 6+ ft distance between you and others. Discuss primary infection prevention measures listed below. Discuss COVID-19 symptoms with coworkers and subcontractors to ensure fitness for duty. Anyone exhibiting signs or symptoms should be instructed to leave the Site, contact your Project Manager. 		

¹ Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.

² A hazard is a potential danger. Break hazards into six types: Contact - victim is struck by or strikes an object; Caught - victim is caught on, caught in or caught between objects; Fall - victim falls to ground or lower level (includes slips and trips); Exertion - excessive strain or stress / ergonomics / lifting techniques; Exposure - inhalation/skin hazards, energy source; Energy Source – electricity, pressure, compression/tension.

³ Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift". Avoid general statements such as, "be careful".

4. Site Activities	<p>Exposure: Becoming infected or infecting co-workers</p>	<ul style="list-style-type: none"> • Coordinate field activities at the beginning of the day (i.e. Tailgate meeting) to minimize time spent in crowded spaces or overlap while completing job tasks. • Don face coverings as appropriate. • Apply social distancing (6+ ft) when interacting with others if unvaccinated. If anyone comes within 6 ft of you while conducting work and your work prevents you from moving away, politely ask them to move back. If others are unable to move from your space, stop work and leave area. • Minimize shaking hands or touching others. • Minimize sharing of equipment or other items with co-workers and subcontractors unless wearing appropriate PPE (e.g. nitrile gloves), as appropriate. • If anyone is experiencing COVID-19 signs or symptoms in your vicinity, stop work and leave the area. • Do not work in areas with limited ventilation with others. • Cover your mouth and nose with tissue or paper towel or with your elbow when coughing or sneezing and wash hands or use hand sanitizer immediately after. If sick contact SHSO/PM and leave Site immediately. • Clean work surfaces/areas with approved cleaners you're responsible for (ex: desk, office doorknob, computer, etc.) at least daily. • Avoid public spaces and going out to eat by bringing your own lunch to the Site. If performing work in high density urban areas, it is recommended all food must be consumed at or in your vehicle or within designated work trailer. Wash hands or use hand sanitizer before eating and immediately after.
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Primary Infection Prevention Measures

- Wash your hands often with soap and water for at least 20 seconds.
 - If soap and water are not available, use an alcohol-based sanitizer that contains at least 60% alcohol. Key times to wash hands include after blowing your nose, coughing or sneezing, after using the restroom, and before eating or preparing food.
- Do not touch your eyes, face, nose and mouth with unwashed hands.
- Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. Throw potentially contaminated items (e.g. used tissues) in the trash.
- Avoid close contact/secondary contact with people and potentially contaminated surfaces.
 - Apply appropriate social distance (6+ feet).
 - Minimize handshaking/touching others and use caution when accessing public spaces.
- Clean frequently touched surfaces daily. Commonly touched items can include but are not limited to tables, doorknobs, light switches, countertops, handles, desks, phones, keyboard, toilets, sinks and field equipment. If surfaces are dirty, they should be cleaned with soap and water prior to disinfection. If surface cannot be cleaned/disinfected, then wash hands or use sanitizer as soon as possible.

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APPENDIX C
How to Remove Gloves

How to Remove Gloves

To protect yourself, use the following steps to take off gloves



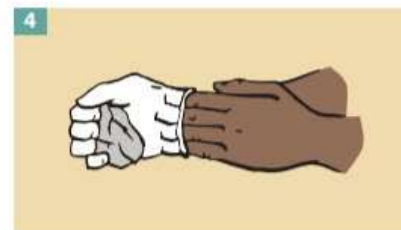
1 Grasp the outside of one glove at the wrist.
Do not touch your bare skin.



2 Peel the glove away from your body,
pulling it inside out.



3 Hold the glove you just removed in
your gloved hand.



4 Peel off the second glove by putting your fingers
inside the glove at the top of your wrist.



5 Turn the second glove inside out while pulling
it away from your body, leaving the first glove
inside the second.



6 Dispose of the gloves safely. Do not reuse the gloves.



7 Clean your hands immediately after removing gloves.

Roux Injury Illness Prevention Program

**INURY AND ILLNESS
PREVENTION PROGRAM**

CORPORATE HEALTH AND SAFETY MANAGER : Brian Hobbs, CIH, CSP
EFFECTIVE DATE : 10/18
REVISION NUMBER : 1

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APPENDICES

- Appendix A – Safe Work Practices
- Appendix B – Example Job Safety Analysis Form
- Appendix C – Accident Report Form
- Appendix D – Near Loss Form
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1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has established this Injury and Illness Prevention Program (IIPP) to assist in preventing workplace accidents, injuries and illnesses. Additionally, this program has been developed to ensure compliance with Title 8 of the California Code of Regulations, Sections 1509 (T8 CCR 1509) and 3203 (T8 CCR 3203).

2. SCOPE AND APPLICABILITY

The Roux IIPP program applies to all employees working in the State of California and to all operations performed in the State of California.

3. ROLES AND RESPONSIBILITIES

The Injury and Illness Prevention Program Administrator for Roux is the Corporate Health and Safety Manager (CHSM), Brian Hobbs, CIH, CSP. The daily administration of the IIPP is delegated to the Office Manager (OM). The CHSM has the authority and responsibility and overall accountability for the comprehensive implementation of this IIPP.

All managers and supervisors shall implement and maintain the IIPP in work areas and for answering worker questions regarding the IIPP as well as encouraging employee input regarding safety issues and possible corrective actions. A copy of the IIPP will be maintained on the Roux intranet site as well as posted at job sites.

All employees, including management, are responsible for complying with safe and healthful work practices, actively participating in the safety program, and implementing all directives, policies and procedures. Roux ensures that all workers comply through implementation of the following:

- Informing workers of the provisions of our IIPP.
- Evaluating the safety performance of all workers during annual performance reviews.
- Promoting and recognizing employees who perform safe and healthful work practices.
- Providing further coaching and training to workers whose safety performance is deemed deficient.
- Disciplining workers for failure to comply with safe and healthful work practices, as appropriate.

Employee Responsibilities

Employees are expected to actively participate in the organization's IIPP, which includes the following responsibilities:

- Follow safety and health procedures, including:
 - General safety rules as stated in Appendix A: Safe Work Practices.
 - Protective measures outlined on JSAs (Appendix B) and in training.
 - Standard operating procedures and JSAs.
 - The organization's drug and alcohol policy.
 - Applicable standards of Cal/OSHA.
- Learn about the potential hazards in your workplace.
- Immediately report all hazardous conditions, injuries, and near misses to management or a safety committee representative.

- Provide recommendations to your Office Health and Safety Manager (OHSM) or OM for improving the safety and health of the work environment.
- Cooperate with workplace inspections and incident investigations.

Management Responsibilities

Management must provide the following to promote compliance and foster a good safety culture:

- Comply with applicable standards of Cal/OSHA.
- Inform employees of the provisions of the IIPP and ensure understanding.
- Model and enforce safe work practices for employees and everyone in the work area.
- Communicate with all employees about occupational health and safety on an ongoing basis, including conducting routine program meetings which include discussions on safety issues.
- Encourage employees to report hazardous conditions, injuries, near misses, and all incidents.
- Ensure that positive incentives are in place for continued safety performance and adherence to safety rules.
- Follow disciplinary procedures for employees or management who disregard workplace safety requirements.
- Train employees in the hazards and respective controls associated with their work area.
- Provide recommendations for improving the safety and health of the work environment to the safety committee or upper-level management.
- Ensure resolution of safety issues discovered through incident reports, the safety committee, or inspections in a timely manner.
- Ensure periodic, documented inspections of work sites.
- Conduct performance reviews for employees and managers that include safety performance. The reviews include adherence to the safety rules and procedures outlined in Job Safety Analysis (JSA) and emphasize the positive contributions which employees have made to the safety program.
- If given citations by Cal/OSHA, correct the hazards by the given deadline.

4. COMMUNICATION

Open communication regarding safety must flow both ways, from management down to employees and from employees up through management channels. At Roux, we encourage all employees to communicate work place hazards to peers and management without the fear of reprisal. Each Roux employee has Stop Work Authority which they will execute upon determination of any imminent safety hazard, emergency situation, or other potentially dangerous situation, such as hazardous weather conditions. Once initiated, workers contact the Project Manager (PM) and/or Project Principal (PP) to provide an immediate update to the situation at hand. Authorization to proceed with work will be issued by the PM/PP after such action is reviewed and resolved accordingly.

Roux will use a variety of means to communicate with employees on safety and health issues. The most significant are noted below:

- New employee orientation, including discussing Roux H&S policy and philosophy, review of H&S Corporate Management programs, and office emergency preparedness training.
- Safety meetings are held monthly. The format of the meetings includes near losses, incidents and other safety messages since the previous monthly meeting, followed by a specified topic, then a Q&A session to clarify information that was presented and to share experiences.
- An incident notification flow chart was developed to provide a framework for staff on what to do in the event

of a near loss or loss. This process includes immediate notifications of safety related issues all the way up from staff to the COO and CEO of the organization.

- Safety tailgate meetings shall occur daily before any work activity, when new operations are conducted, whenever changes in work practices must be implemented, and when new conditions are identified and/or information becomes available.
- Open discussions on safety and health are held during program management meetings amongst staff as it relates to ongoing field activities.
- Required Cal/OSHA safety notifications shall be posted at each office and jobsite that has a company trailer. Various other items of safety value will be posted as appropriate, including quarterly Health and Safety Newsletters written by various levels of employees throughout the organization.

5. HAZARD IDENTIFICATION AND ASSESSMENT

JSAs and inspections of work sites shall be used to identify and evaluate occupational hazards.

Job Safety Analysis (JSA)

JSAs are used to evaluate each job step to identify uncontrolled hazards and establish a means and methods to mitigate these potential uncontrolled hazards. Developing and implementing JSAs aide in reducing the likelihood of incidents and injuries at a job site. Roux has adopted a formal process for the development and review of JSAs which are used by Roux staff in the field. This formal process is outlined within the Job Safety Analysis (JSA) Management Program 2.14, which is found within Roux's Corporate Health and Safety Manual.

The JSA development process can be broken into three steps. These steps are provided below in further detail.

Step 1 – List Job Steps

The first step in developing a JSA is to identify each job step in order of occurrence. Job steps should be concise and clearly describe the individual safety critical tasks for the collective operation. *For example, a monitoring well gauging and sampling task may include the following job steps: 1) access well with hand tools, 2) gauge well using interface probe, 3) purge well with bailer, etc. Whereas, an example of a job step that is too generalized is "gauge and sample well."*

Step 2 – Identify Potential Hazards

Next, for each job step, determine potential hazards that may exist or occur while performing the associated job step. In helping determine safety critical job steps, the following questions should be assessed:

- "What could go wrong?"
- "What's the worst that can happen?"
- "What are the consequences?"

Potential hazards should be identified by the following categories:

- Contact – struck by or against an object.
- Caught – caught on, in, or between objects.
- Falls – slips, trips, or falls to the ground or a lower level.
- Exertion – repetitive motion, excessive strain/stress, ergonomics, lifting/bending.
- Exposure – inhalation/ingestion/injection, cold/heat stress, noise/vibration.

- Energy Sources – electric lines or mechanical energy, including stored energy.

For each hazard category, the potential hazard should be further described. *For instance, with the example described in Step 1 above, a potential hazard associated with the monitoring well gauging and sampling task – specifically, the job step to “access well with hand tools” – may include CAUGHT – pinch points when handling well cover.*

Step 3 – Determine Mitigative Actions

After the potential hazard(s) have been identified, evaluate if the job step can be performed in a manner where the hazard is eliminated, reduced or controlled. Common methods to eliminate, reduce or control potential hazards which follow the hierarchy of controls may include, but are not limited to, one or a combination of the following:

- Eliminating or substituting a job step with a less hazardous operation.
- Combining job steps or changing the sequence.
- Instituting engineering controls.
- Obtaining other tools or redesigning equipment.
- Performing ambient monitoring or screening.
- Obtaining additional safety equipment including personal protective equipment (PPE).
- Adding warning devices.

Mitigative actions should be specific and avoid using generalizations such as, “be careful” or “use caution.” There must be at least one mitigative action for each potential hazard. PPE should never be the only mitigative action. It is the last line of defense. *Taking the example illustrated in Steps 1 & 2 above, mitigative actions for the potential hazard “CAUGHT – pinch points when handling well cover” may include 1) wear leather gloves, 2) use pry bar when accessing well cover, 3) keep hands/fingers clear between cover and collar, ... etc.*

Inspections (Field Audits)

Roux provides a variety of health and safety tools, including two inspection processes which are Roux Peer Observations (RPOs) and Field Audits. These tools are available to all employees and provides opportunities for both peer to peer and management to peer inspections of job sites. These scheduled periodic inspections assist in identifying unsafe behaviors, work practices, and conditions.

RPOs are scheduled activities where one individual observes another completing a task. The purpose of the RPO is to ensure individuals perform work tasks according to standard operating procedures, and in a safe and healthy work environment. During this type of inspection, the observer is focused on the work process, not the individual (worker remains anonymous). The goal of RPOs is to positively reinforce correct behaviors and to identify and eliminate undesirable behaviors and conditions.

Field audits are performed by Roux Associates personnel from peers to senior management to not only check that health and safety requirements are being met but also to demonstrate management leadership in the health and safety program. The audits focus on how our health and safety tools are being implemented, and when we are providing oversight of Subcontractor operations, to ensure the Subcontractor is meeting our health and safety requirements.

At any time during a Field Audit or RPO, if an imminent safety hazard, emergency situation, or other potentially dangerous situation arises, the auditor is instructed to implement Stop Work Authority until the hazard can be mitigated appropriately.

Audit findings are documented on a Field Audit Checklist or RPO Form and any recommended corrective actions are discussed with the field personnel and their project management immediately following the audit/observation. The results of the audit/observation are entered into our internal digital application so that trends can be tracked and communicated throughout Roux to ensure that the corrective actions are effective and implemented. Once these digital forms are submitted, there are immediate notifications to the OHSM and CHSM. The OHSM, in coordination with the CHSM, assigns the severity level, which determines the appropriate response in order to provide resolution and to verify and validate that the solutions are effective.

In addition to scheduled inspections and ongoing review, the CHSM, OM, and OHSM will arrange for unscheduled inspections. The times and locations are to be chosen by the person performing the inspection.

Inspection Records

Inspection records shall be maintained for a minimum one year following the inspection.

Hazard Correction

All unsafe or unhealthy work conditions, practices and procedures shall be corrected in a timely manner based on the severity of the hazards. Hazards shall be corrected according to the following procedures:

- When observed or discovered
- When an imminent hazard exists, which cannot be immediately abated without endangering employee(s) and/or property, we will remove all exposed workers from the area except those necessary to correct the existing condition. Workers who are required to correct the hazardous condition shall be provided with the proper training and necessary protection to perform the work to the safest extent.

All employees are empowered to share their hazard identifications in the field through regular communication with their PM as well as a digital form submission. Electronic submittals are able to provide real time data to not only their PMs but also the OHSM and CHSM regarding the specific activity type, type of hazard identified, whether or not Stop Work authority was implemented, a brief description of the hazard, and the mitigating actions which were implemented to reduce the potential for an incident.

6. ACCIDENT INVESTIGATION

It is the policy of Roux that all work-related accidents, injuries and illnesses are to be conducted in a professional manner to identify probable causes and are used to develop specific management actions for the prevention of future accidents. Every minor or non-disabling injury will be investigated with the same vigor and thoroughness as serious injuries. Proper and complete investigation of these injuries can be an effective injury prevention tool.

It shall be the responsibility of all Roux employees to report all incidents as soon as possible to the PM (or Administrative Manager for office-related incidents), Site Health and Safety Officer (SHSO), OHSM, OM, and CHSM regardless of severity. Additional notifications to the COO and CEO shall be made based on the severity of the incident.

On receiving a report of incident (or “near-loss”) occurrence from a Roux employee, the SHSO or OHSM shall immediately investigate the circumstances and shall make appropriate recommendations to prevent recurrence.

The Incident Report form can be found in Appendix C, and Near Loss form can be found in Appendix D. The Factors, Root Causes and Solutions Form™ can be found in Appendix E. Management shall participate in the investigation of more serious accidents and incidents that occur on-site. The CHSM shall also be immediately notified by telephone on occurrence of a serious accident or incident.

Details of the incident shall be documented using the Accident Report and Investigation Forms within twenty-four (24) hours of the incident and shall be distributed to the SHSO, the OHSM, PM, OM and the CHSM. The CHSM will update OSHA Forms 301 and the 300 log when necessary.

A satisfactory accident report shall answer the following questions:

1. What happened? The investigation report should begin by describing the accident, the injury sustained, the eyewitnesses, the date, time, and location of the incident and the date and time of the report. Remember: who, what, when, where, and how are the questions that the report must answer.
2. Why did the accident occur? The ultimate cause of the accident may not be known for several days after all the data is collected and analyzed. Roux shall formally go through the Factors, Root Cause, and Solutions Form following an accident to determine root cause.
3. What should be done? Once a report determines the cause of an incident, it should provide a means and method for mitigating future incidents of similar character. This is a decision by the CHSM, PM, as well as upper management. Once a solution has been adopted, it is everyone's responsibility to implement it.
4. What has been done? Verification and validation will take place of the solution. In the first step, one will verify the solution has been implemented and the second action will determine whether the solution that has been implemented works to reduce the likelihood of a reoccurring incident.

7. TRAINING AND INSTRUCTION

All workers, including managers and supervisors, shall have training and instruction on general and job-specific health and safety practices. Training instruction shall be provided:

- When the IIPP is first established
- To all new employees
- To all employees given new job assignments for which training has not previously been provided
- Whenever new substances, processes or procedures or equipment are introduced and present a new hazard
- Whenever the employer is made aware of a new or previously unrecognized hazard
- To all workers with respect to the hazards specific to each employee's job assignment

Employee Training Documentation

Roux maintains documentation of health and safety training for each employee, including employee name, training dates, type(s) of training and training providers (as applicable). Documentation of training will be maintained for three (3) years.

Training records of employees who have worked for less than one (1) year for the company will not be retained beyond the term of employment if they are provided to the employee upon termination of employment.

Training records are maintained at the office level with the OHSM, as well as within a Corporate Training Database.

8. RECORDKEEPING AND DOCUMENTATION

Copies of required accident investigations and certification of employee training shall be maintained at the office level with the OHSM, as well as within a Corporate Database.

Roux keeps records of its employee fatalities, injuries, and illnesses that are work-related, are a new case, or meet one or more of the general recording criteria of Title 8 Sections 14300-14300.48.

Each recordable injury or illness is entered on OSHA 300 Log of Work-Related Injuries and Illnesses, OSHA 301 Form Injury and Illness Incident Report, and a separate, confidential list of privacy-concern cases, if any, within (7) calendar days of receiving information that a recordable injury or illness has occurred. The CHSM keeps these records up to date.

If there is a privacy-concern case, we have the option to not enter the employee's name on OSHA 300 Log of Work-Related Injuries and Illnesses. Instead, the text "Privacy Case" is entered in the space normally used for the employee's name. This will protect the privacy of the injured or ill employee when another employee, a former employee, or an authorized employee representative is provided access to the OSHA 300 Log. The company will keep a separate, confidential list of the case numbers and employee names for your privacy concern cases so that we can update the cases and provide the information to the government if asked to do so.

At the end of the calendar year, the CHSM performs the following steps:

1. Reviews OSHA 300 Log of Work-Related Injuries and Illnesses to verify that the entries are complete and accurate.
2. Creates an annual summary of injuries and illnesses recorded on OSHA 300 Log of Work-Related Injuries and Illnesses.
3. Company Executive signs annual summary certifying they have examined the documentation and that to the best of my knowledge the entries are true, accurate and complete.
4. OHSM posts OSHA 300A Summary of Work-Related Injuries and Illnesses on their main office bulletin board from February 1 of the year following the year covered by the records and kept in place until April 30th for a total of three (3) months.

The CHSM saves the following records for a minimum of five (5) years following the end of the calendar year that these records cover:

- OSHA 300 Log, privacy case list (if one exists)
- OSHA 300A Annual Summary
- OSHA 301 Incident Report Forms or equivalent Accident Report Forms

APPENDIX A – SAFE WORK PRACTICES

The following safe work practices have been developed to provide a general framework for our employees. This is not considered an all-inclusive list, for more detailed specific work practices please refer to the Corporate Health and Safety Manual.

Safe Behaviors

- Never work under the influence of drugs or alcohol. We are a drug-free work environment. Anyone known to be under the influence of drugs or intoxicating substances that impair their ability to safely perform the assigned duties shall not be allowed on the job while in that condition.
- Report the use of prescription drugs that might cause drowsiness to management at the start of every shift.
- Do not engage in horseplay or any activities that may have an adverse influence on the safety or well-being of other employees.
- Do not crowd or push others when boarding or leaving any workplace vehicle or other conveyance.
- Do not run in the workplace.
- Never walk across any moving parts or place any body part in a hazard zone of machinery or equipment (e.g., a point of operation).
- Never stand under or near any suspended load (e.g., on a crane or lift).
- Do not smoke in any area of the office or field sites.
- Do not enter confined spaces (i.e., manholes, underground vaults, chambers, tanks, silos, or other similar places that receive little ventilation).
- Coordinate work to minimize working alone at field sites.
- Never distract a coworker when they are operating equipment.
- Never throw materials, tools, or other objects from buildings or structures until proper precautions are taken to protect others located below from the falling objects.

Emergency and Injury Response

- Call 911 in the event of a medical emergency. Then initiate company emergency response procedures by following the Roux Incident Notification Flowchart.
- Report all injuries to management, even if they are not emergencies, so that arrangements can be made for medical or first aid treatment.
- Do not drive yourself if you are injured. Report to management and they will determine the proper means of transportation.
- Evacuate in the event of a fire. If possible, pull the fire alarm and warn those around you as you exit the building. Do not attempt to fight the fire unless you are a trained responder.
- Notify management of any chemical spills or emergencies. **Never** try to clean up a material unless you are properly trained and equipped as part of a hazardous material responder team.
- Never block a fire door.
- Know the following:
 - Your emergency evacuation route.
 - Your assembly point to meet up after an evacuation.

- The location of emergency evacuation maps, emergency eyewash stations, the closest fire extinguishers, and the closest first aid supplies.
- Who the first aid providers are.
- First aid providers will provide necessary treatment, monitor the progress of injuries, and assure that injuries are properly treated to the level of their ability.

Reporting

- Report all incidents and near misses to management, even if they do not result in an injury.
- Report unsafe working conditions, unsafe practices, or defective tools and equipment to management immediately. Red tag and remove defective tools and equipment from service immediately, so nobody else will use them.

Ergonomics

- Follow safe lifting precautions.
 - Lift with your legs, not your back.
 - Use neutral posture without twisting or overextending.
 - Plan out your route and make sure that it is clear before you begin to carry the load.
 - For heavy loads, use material handling equipment whenever possible or obtain help for heavy or cumbersome loads if there is no material handling equipment present.

Housekeeping

- Keep all exits, aisles, emergency equipment and electrical panels unblocked (36-inch clearance is required).
- Help to prevent slip, trip and fall hazards by:
 - Doing a pre-break clean up and keeping your work area organized throughout the day.
 - Responding when you see a hazard rather than just walking on.
 - Cleaning up clutter and trip hazards from walkways as soon as you see them and, at a minimum, before each break.
 - Keeping tools and equipment in their proper places.
 - Cleaning up spills of non-hazardous materials right away.

Personal Protective Equipment

- Properly wear all required personal protective equipment (PPE) at all times when you are in the work area.
- Inspect your PPE regularly for wear or defects.
- Clean PPE after use, and store it in a clean, designated area.
- If your PPE is damaged, inform your supervisor and inquire about a replacement.
- Wear enclosed-top, anti-slip soled shoes. Do not wear shoes with thin or badly worn soles.
- Do not use compressed air to clean your clothing.

Machine Safety, Electrical Safety, and Equipment Care

- If you work around machinery, do not wear loose clothing or have loose hair or jewelry, as they can get caught in the machinery and pull you in.

- Do not handle or tamper with any utilities associated with electrical equipment, machinery, or air or water lines in a manner not within the scope of your duties, unless you are trained, authorized, and utilizing established lockout/tagout procedures for the specific equipment in question.
- Do not remove guards or other protective devices.
- Never operate machinery without guards or safeguards in place. If guards or protective devices are not properly in place or firmly adjusted, report deficiencies promptly to management.
- Technician personnel are the only people authorized and trained to perform work involving lockout/tagout.
 - **Do not** try to repair or de-jam any equipment without authorization.
 - If you are authorized to make repairs, make sure that all equipment is locked and tagged out.
- Report any safety issues or needs to management.
- Do not use defective or out-of-specification tool or machinery. It must be immediately removed from service and repaired or replaced.
- Only licensed electricians are authorized to work on electrical equipment. The following rules pertain to electrical equipment:
 - Keep electrical panels closed. Keep the ground intact.
 - Consider all electrical equipment being assembled or tested “live.”
 - Use ground fault circuit interrupters (GFCI) in wet areas.
 - Assure that electrical panels are clearly marked to indicate equipment/circuits controlled by specific breakers.
- When working with electrical hand tools, make sure the ground is intact and that all insulation is sound.

Ladder Safety

When using ladders:

- Utilize the proper type and size of ladder for the job.
- For extension ladders, maintain the 4:1 rule (vertical rise to horizontal slope), and secure the top of the ladder.
- Do not utilize the top two rungs on a stepladder.
- Ensure that they are sturdy and in good condition. Immediately red tag and remove from service if this is not the case.
- Fix them in place to assure stability.
- Use three points of contact when ascending and descending.
- Do not carry items while ascending or descending (except on a tool belt).
- Only one person may climb the ladder at a time.

Chemical Use

- Only use chemicals if you have been trained on their safe use.
- Know the SDS content and location for all chemicals you work with or around.
- Always wear the proper PPE.
- Always add acid to water; **never** add water to acid.
- Always wash hands with soap and water after handling any chemicals.

- **Do not** scratch or rub any part of your body while working with chemicals.
- Ensure that all containers are labeled with the identity of the contents and general hazards (following GHS requirements).
- All piping systems must also be clearly labeled with contents, flow, and concentration.
- **Do not** use any chemical unless the container is clearly and correctly labeled.
- **Do not** taste or sniff chemicals, solvents, or any processing solution.
- **Do not** work alone when handling chemicals.
- Use all chemicals under proper ventilation. Always check ventilation gauges, if present, to be sure of proper function prior to operating/charging.
- Tightly close all chemical containers after use and return them to the proper storage cabinet (i.e., acid, base, peroxide, or flammable).
- Ensure that chemical products are stored with compatible chemicals (e.g. avoid storing acids near bases or flammables near oxidizers).
- **Do not** store chemical containers on floors; they should be stored in spill containment receptacles that can contain the full capacity of any spill.
- Use proper procedures and labeled waste containers for disposal of all chemicals.
- Eating, drinking, or smoking is not permitted in any chemical use/storage area.

Appendix B – Example Job Safety Analysis Form

JOB SAFETY ANALYSIS		Ctrl. No.	DATE:	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> REVISED	PAGE i of 2
JSA TYPE CATEGORY	WORK TYPE	WORK ACTIVITY (Description)			
DEVELOPMENT TEAM	POSITION / TITLE	REVIEWED BY:	POSITION / TITLE		
REQUIRED AND / OR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT					
<input type="checkbox"/> LIFE VEST <input type="checkbox"/> HARD HAT <input type="checkbox"/> LIFELINE / BODY HARNESS <input type="checkbox"/> SAFETY GLASSES	<input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input type="checkbox"/> HEARING PROTECTION <input type="checkbox"/> SAFETY SHOES:	<input type="checkbox"/> AIR PURIFYING RESPIRATOR <input type="checkbox"/> SUPPLIED RESPIRATOR <input type="checkbox"/> PPE CLOTHING:	<input type="checkbox"/> GLOVES: <input type="checkbox"/> OTHER		
REQUIRED AND / OR RECOMMENDED EQUIPMENT					
Required Equipment:					
COMMITMENT TO SAFETY - All personnel onsite will actively participate in hazard recognition and mitigation throughout the day by verbalizing SPSAs.					
Assess 1JOB STEPS	Analyze 2POTENTIAL HAZARDS	Act 3CRITICAL ACTIONS			
<i>Each Job or Operation consists of a set of tasks / steps. Be sure to list all the steps needed to perform job.</i>	<p>A hazard is a potential danger.</p> <p>Break hazards into six types:</p> <ol style="list-style-type: none"> 1. <i>Contact - victim is struck by or strikes an object;</i> 2. <i>Caught - victim is caught on, caught in or caught between objects;</i> 3. <i>Fall - victim falls to ground or lower level (includes slips and trips);</i> 4. <i>Exertion - excessive strain or stress / ergonomics / lifting techniques;</i> 5. <i>Exposure - inhalation/skin hazards;</i> 6. <i>Energy Source – electricity, pressure, compression/tension.</i> 	<i>Using the first two columns as a guide, decide what actions or procedures are necessary to eliminate or minimize the risk. List the recommended safe operating procedures. Say exactly what needs to be done - such as "use two persons to lift." Avoid general statements such as, "be careful."</i>			

Appendix C – Accident Report and Investigation Form

- Roux Environmental Engineering and Geology, D.P.C.
 Roux Associates, Inc. Remedial Engineering, P.C.

ACCIDENT REPORT

Brian Hobbs, Corporate Health and Safety Manager
 Cell: (631) 807-0193; Office: (631) 630-2416

PART 1: ADMINISTRATIVE INFORMATION

Project #: _____ Project Name: _____ Project Location (street address/city/state): _____ _____ Client Corporate Name / Contact / Address / Phone #: _____ _____ _____ _____ _____		Immediate Verbal Notifications Given To: Corporate Health & Safety <input type="checkbox"/> Yes <input type="checkbox"/> No Office Health & Safety <input type="checkbox"/> Yes <input type="checkbox"/> No Office Manager <input type="checkbox"/> Yes <input type="checkbox"/> No Project Principal <input type="checkbox"/> Yes <input type="checkbox"/> No Project Manager <input type="checkbox"/> Yes <input type="checkbox"/> No Client Contact <input type="checkbox"/> Yes <input type="checkbox"/> No		REPORT STATUS (time due): <input type="checkbox"/> Initial (24 hr) <input type="checkbox"/> Final (5-10 days) Date: _____ Date: _____ Accident Report Delivered To: Corporate Health & Safety <input type="checkbox"/> Yes <input type="checkbox"/> No Office Health & Safety <input type="checkbox"/> Yes <input type="checkbox"/> No Office Manager <input type="checkbox"/> Yes <input type="checkbox"/> No Project Principal <input type="checkbox"/> Yes <input type="checkbox"/> No Project Manager <input type="checkbox"/> Yes <input type="checkbox"/> No		
		REPORT TYPE: <input type="checkbox"/> Loss <input type="checkbox"/> Near Loss Estimated Costs: \$ _____ _____				
OSHA CASE # Assigned by Corporate Health & Safety if Applicable: _____		Corporate Health & Safety Confirmed Final Accident Report <input type="checkbox"/> Yes <input type="checkbox"/> No				
DATE OF INCIDENT: _____	TIME INCIDENT OCCURRED: _____ <input type="checkbox"/> AM <input type="checkbox"/> PM	INCIDENT LOCATION – City, State, and Country (If outside U.S.A.) _____				
INCIDENT TYPES: (Select most appropriate if Loss occurred.) From lists below, please select the option that best categories the incident. When selecting an injury or illness, also indicate the severity level.						
<table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;"> <input type="checkbox"/> INJURY -----Severity Level----- <input type="checkbox"/> Fatality <input type="checkbox"/> First Aid <input type="checkbox"/> Medical <input type="checkbox"/> Restricted Work <input type="checkbox"/> Lost Time Treatment </td> <td style="width:33%; border: none;"> <input type="checkbox"/> ILLNESS </td> <td style="width:34%; border: none;"> <input type="checkbox"/> OTHER INCIDENT TYPES <input type="checkbox"/> Spill / Release Material involved: _____ Quantity (U.S. Gallons): _____ <input type="checkbox"/> Misdirected Waste <input type="checkbox"/> Consent Order <input type="checkbox"/> NOV <input type="checkbox"/> Property Damage <input type="checkbox"/> Exceedance <input type="checkbox"/> Motor Vehicle <input type="checkbox"/> Fine / Penalty </td> </tr> </table>				<input type="checkbox"/> INJURY -----Severity Level----- <input type="checkbox"/> Fatality <input type="checkbox"/> First Aid <input type="checkbox"/> Medical <input type="checkbox"/> Restricted Work <input type="checkbox"/> Lost Time Treatment	<input type="checkbox"/> ILLNESS	<input type="checkbox"/> OTHER INCIDENT TYPES <input type="checkbox"/> Spill / Release Material involved: _____ Quantity (U.S. Gallons): _____ <input type="checkbox"/> Misdirected Waste <input type="checkbox"/> Consent Order <input type="checkbox"/> NOV <input type="checkbox"/> Property Damage <input type="checkbox"/> Exceedance <input type="checkbox"/> Motor Vehicle <input type="checkbox"/> Fine / Penalty
<input type="checkbox"/> INJURY -----Severity Level----- <input type="checkbox"/> Fatality <input type="checkbox"/> First Aid <input type="checkbox"/> Medical <input type="checkbox"/> Restricted Work <input type="checkbox"/> Lost Time Treatment	<input type="checkbox"/> ILLNESS	<input type="checkbox"/> OTHER INCIDENT TYPES <input type="checkbox"/> Spill / Release Material involved: _____ Quantity (U.S. Gallons): _____ <input type="checkbox"/> Misdirected Waste <input type="checkbox"/> Consent Order <input type="checkbox"/> NOV <input type="checkbox"/> Property Damage <input type="checkbox"/> Exceedance <input type="checkbox"/> Motor Vehicle <input type="checkbox"/> Fine / Penalty				
<table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;"> <input type="checkbox"/> ACTIVITY TYPE (Check most appropriate one.) <input type="checkbox"/> CAMP <input type="checkbox"/> Gauging <input type="checkbox"/> Subsurface <input type="checkbox"/> Construction <input type="checkbox"/> O&M Clearance <input type="checkbox"/> Drilling <input type="checkbox"/> Other Soil Work <input type="checkbox"/> Trucking <input type="checkbox"/> Driving (e.g. Compaction) <input type="checkbox"/> Waste Mgmt. <input type="checkbox"/> Excavation <input type="checkbox"/> Sampling <input type="checkbox"/> Work Area Prep. <input type="checkbox"/> Trenching <input type="checkbox"/> Site Walk/Inspection <input type="checkbox"/> Other </td> <td style="width:33%; border: none;"> <input type="checkbox"/> INJURY TYPE (Check all applicable.) <input type="checkbox"/> Abrasion <input type="checkbox"/> Occupational Illness <input type="checkbox"/> Amputation <input type="checkbox"/> Puncture <input type="checkbox"/> Burn <input type="checkbox"/> Rash <input type="checkbox"/> Cold/Heat Stress <input type="checkbox"/> Repetitive Motion <input type="checkbox"/> Inflammation <input type="checkbox"/> Sprain/Strain <input type="checkbox"/> Laceration <input type="checkbox"/> Other </td> <td style="width:34%; border: none;"> <input type="checkbox"/> BODY PART AFFECTED (Check all applicable.) <input type="checkbox"/> Respiratory <input type="checkbox"/> Shoulder <input type="checkbox"/> Face <input type="checkbox"/> Neck <input type="checkbox"/> Arm <input type="checkbox"/> Leg <input type="checkbox"/> Chest <input type="checkbox"/> Wrist <input type="checkbox"/> Knee <input type="checkbox"/> Abdomen <input type="checkbox"/> Hand/Fingers <input type="checkbox"/> Ankle <input type="checkbox"/> Groin <input type="checkbox"/> Eye <input type="checkbox"/> Foot/Toes <input type="checkbox"/> Back <input type="checkbox"/> Head <input type="checkbox"/> Other </td> </tr> </table>				<input type="checkbox"/> ACTIVITY TYPE (Check most appropriate one.) <input type="checkbox"/> CAMP <input type="checkbox"/> Gauging <input type="checkbox"/> Subsurface <input type="checkbox"/> Construction <input type="checkbox"/> O&M Clearance <input type="checkbox"/> Drilling <input type="checkbox"/> Other Soil Work <input type="checkbox"/> Trucking <input type="checkbox"/> Driving (e.g. Compaction) <input type="checkbox"/> Waste Mgmt. <input type="checkbox"/> Excavation <input type="checkbox"/> Sampling <input type="checkbox"/> Work Area Prep. <input type="checkbox"/> Trenching <input type="checkbox"/> Site Walk/Inspection <input type="checkbox"/> Other	<input type="checkbox"/> INJURY TYPE (Check all applicable.) <input type="checkbox"/> Abrasion <input type="checkbox"/> Occupational Illness <input type="checkbox"/> Amputation <input type="checkbox"/> Puncture <input type="checkbox"/> Burn <input type="checkbox"/> Rash <input type="checkbox"/> Cold/Heat Stress <input type="checkbox"/> Repetitive Motion <input type="checkbox"/> Inflammation <input type="checkbox"/> Sprain/Strain <input type="checkbox"/> Laceration <input type="checkbox"/> Other	<input type="checkbox"/> BODY PART AFFECTED (Check all applicable.) <input type="checkbox"/> Respiratory <input type="checkbox"/> Shoulder <input type="checkbox"/> Face <input type="checkbox"/> Neck <input type="checkbox"/> Arm <input type="checkbox"/> Leg <input type="checkbox"/> Chest <input type="checkbox"/> Wrist <input type="checkbox"/> Knee <input type="checkbox"/> Abdomen <input type="checkbox"/> Hand/Fingers <input type="checkbox"/> Ankle <input type="checkbox"/> Groin <input type="checkbox"/> Eye <input type="checkbox"/> Foot/Toes <input type="checkbox"/> Back <input type="checkbox"/> Head <input type="checkbox"/> Other
<input type="checkbox"/> ACTIVITY TYPE (Check most appropriate one.) <input type="checkbox"/> CAMP <input type="checkbox"/> Gauging <input type="checkbox"/> Subsurface <input type="checkbox"/> Construction <input type="checkbox"/> O&M Clearance <input type="checkbox"/> Drilling <input type="checkbox"/> Other Soil Work <input type="checkbox"/> Trucking <input type="checkbox"/> Driving (e.g. Compaction) <input type="checkbox"/> Waste Mgmt. <input type="checkbox"/> Excavation <input type="checkbox"/> Sampling <input type="checkbox"/> Work Area Prep. <input type="checkbox"/> Trenching <input type="checkbox"/> Site Walk/Inspection <input type="checkbox"/> Other	<input type="checkbox"/> INJURY TYPE (Check all applicable.) <input type="checkbox"/> Abrasion <input type="checkbox"/> Occupational Illness <input type="checkbox"/> Amputation <input type="checkbox"/> Puncture <input type="checkbox"/> Burn <input type="checkbox"/> Rash <input type="checkbox"/> Cold/Heat Stress <input type="checkbox"/> Repetitive Motion <input type="checkbox"/> Inflammation <input type="checkbox"/> Sprain/Strain <input type="checkbox"/> Laceration <input type="checkbox"/> Other	<input type="checkbox"/> BODY PART AFFECTED (Check all applicable.) <input type="checkbox"/> Respiratory <input type="checkbox"/> Shoulder <input type="checkbox"/> Face <input type="checkbox"/> Neck <input type="checkbox"/> Arm <input type="checkbox"/> Leg <input type="checkbox"/> Chest <input type="checkbox"/> Wrist <input type="checkbox"/> Knee <input type="checkbox"/> Abdomen <input type="checkbox"/> Hand/Fingers <input type="checkbox"/> Ankle <input type="checkbox"/> Groin <input type="checkbox"/> Eye <input type="checkbox"/> Foot/Toes <input type="checkbox"/> Back <input type="checkbox"/> Head <input type="checkbox"/> Other				
I. PERSON(S) DIRECTLY / INDIRECTLY INVOLVED IN INCIDENT (Attach additional information as necessary/applicable.)						
Name/Phone # of Each Person Directly/Indirectly Involved in Incident:	Designate: Roux/Remedial Employee Roux/Remedial Subcontractor Client Employee Client Contractor Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:		
1)						
2)						

II. PERSONS INJURED IN INCIDENT (Attach additional information as necessary/applicable.)					
Name/Phone # of Each Person Injured in Incident:	Designate: Roux/Remedial Employee Roux/Remedial Subcontractor Client Employee Client Contractor Third Party	As applicable, Current Occupation; Yrs in Current Occupation; Current Position; and Yrs in Current Position:	As applicable, Employer Name; Address; and Phone #:	As applicable, Supervisor Name; and Phone #:	Description of Injury:
1)					
2)					

III. PROPERTY DAMAGED IN INCIDENT (Attach additional information as necessary/applicable.)				
Property Damaged:	Property Location:	Owner Name, Address & Phone #:	Description of Damage:	Estimated Cost:
1)				
2)				\$

IV. WITNESSES TO INCIDENT (Attach additional information as necessary/applicable.)		
Witness Name:	Address:	Phone #:
1)		
2)		

PART 2: WHAT HAPPENED AND INCIDENT DETAILS

PROVIDE FACTUAL DESCRIPTION OF INCIDENT (e.g., describe loss/near loss, injury, response / treatment).

I. AUTHORITIES/GOVERNMENTAL AGENCIES NOTIFIED (Attach additional information as necessary/applicable.)				
Authority/Agency Notified:	Name/Phone #/Fax # of Person Notified:	Address of Person Notified:	Date & Time of Notification:	Exact Information Reported/Provided:

II. PUBLIC RESPONSES TO INCIDENT (if applicable)				
Response/Inquiry By: (check one)	Entity Name:	Name/Phone # of Respondent/ Inquirer:	Address of Entity/Person:	Date & Time of Response/Inquiry:
<input type="checkbox"/> Newspaper <input type="checkbox"/> Television <input type="checkbox"/> Community Group <input type="checkbox"/> Neighbors <input type="checkbox"/> Other				

Describe Response/Inquiry:

Roux/Remedial Response:

(Check all that apply.) (Attach photos, drawings, etc. to help illustrate the incident.)

ATTACHED INFORMATION: Photo Sketches Vehicle Acord Form Police Report Other

Name(s) of person(s) who prepared Initial and Final Report:	Title(s):	Phone number(s):
--	------------------	-------------------------

PART 3: INVESTIGATION TEAM ANALYSIS

Date Investigation Started (MM/DD/YYYY):					
Factors, Root Causes, and Solution (FRCS): Complete FRCS form and answer all 7 factor questions. If answering NO to Factors 1 – 4 identify root cause(s) and explain why QIs occurred. If answering YES to Factors 5 – 7 circle the root cause(s). Transfer the solutions guidance that addresses each root cause from the FRCS form to this form. Attach your completed FRCS Worksheet. If Factors 1-7 do not apply to the incident, write “External Cause” in the Factor column below and leave the remaining fields blank.					
DESCRIPTION OF UNDESIRABLE BEHAVIOR/CONDITION					
1.					
2.					
FACTOR(S) AND SOLUTION(S): HOW TO REDUCE POSSIBILITY OF INCIDENT RECURRING					
Selection of factors and solutions reflects the analysis of investigation team and is not meant to be a legally binding conclusion as to the Root Cause and/or solution.					
CAUSAL FACTOR/ BEHAVIOR/ CONDITION	ROOT CAUSE	SOLUTION(S) [Must Match Root Cause(s)]	PERSON RESPONSIBLE	AGREED DUE DATE	ACTUAL COMPLETION DATE
INVESTIGATION TEAM:					
PRINT NAME		JOB POSITION		DATE	SIGNATURE
QUALITY REVIEW Correct root cause(s) identified? Do root cause(s) and solution(s) match? Are solution(s) feasible / maintainable?					
Name:			Job Title:		
PART 4: Date Solutions were Implemented & Validated (Were Solutions Effective?)					
Date	Solution	Verifier / Validator Name and Job Title	Details (of I & V performed)		

Appendix D – Near Loss Form

**HEALTH & SAFETY NEAR LOSS
ROUX REPORT FORM**

- Roux Environmental Engineering and Geology, D.P.C.
 Roux Associates, Inc. Remedial Engineering, P.C.

(Check applicable company name)

PART 1: ADMINISTRATIVE INFORMATION

Office: New York Massachusetts New Jersey Illinois CA - Los Angeles CA - Oakland

Project Manager:

Project Principal:

Project Name:

Project Location:

PART 2: NEAR LOSS INCIDENT DETAILS

Date\Time Occurred (MM/DD/YYYY HH:MM):

Date\Time Submitted (MM/DD/YYYY HH:MM):

NEAR LOSS INCIDENT TYPE - What could have happened? - Select all that apply (1-7)

- | | | | |
|--|--|--|---|
| 1. <input type="checkbox"/> Fire / Explosion | 3. <input type="checkbox"/> Security (e.g., theft, trespassing, vandalism) | 4. <input type="checkbox"/> Environmental (Spill, permit exceedance, etc.) | 6. <input type="checkbox"/> Property/Equipment Damage |
| 2. <input type="checkbox"/> Injury / Illness | | 5. <input type="checkbox"/> Transportation of personnel (vehicle accident) | 7. <input type="checkbox"/> Business Interruption |

Event Leading to Potential Injury/Illness:

Job Task*:

Equipment Involved*:

WHAT HAPPENED? Do not include individuals' names. Ensure photos, sketches, etc. are not personally identifiable unless written consent has been obtained.

Summary (1-2 sentences. Provide brief description of the incident. Provide facts only, no speculation or opinion):

Incident Details (Brief factual details of what, where, when; include photos, sketches, etc. as attachments):

Immediate Corrective Actions Taken:

SERIOUS INJURY OR FATALITY (SIF): IF AN ACTUAL SIF, USE EXISTING ROUX ACCIDENT REPORTING FORM

Could this have resulted in a SIF? Yes No

A potential SIF is defined as likely to have caused an injury resulting in significant physical body damage with probable long term and/or life altering complications.

INCIDENT INVOLVED:

Roux Employee: Yes No **Subcontractor Company Name:**

INVESTIGATION TEAM

NAME	JOB TITLE	NAME	JOB TITLE
-------------	------------------	-------------	------------------

PART 3: INCIDENT INVESTIGATION FINDINGS AND REPORT QUALITY REVIEW

Date Investigation Started (mm/dd/yyyy):

Factors, Root Causes, and Solution (FRCS): Complete FRCS form and answer all 7 factor questions. If answering NO to Factors 1 – 4 identify root cause(s) and explain why QIs occurred. If answering YES to Factors 5 – 7 circle the root cause(s). Transfer the solutions guidance that addresses each root cause from the FRCS form to this form. Attach your completed FRCS Worksheet. If Factors 1-7 do not apply to the incident, write "External Cause" in the Factor column below and leave the remaining fields blank. **Do not include individuals' names.**

DESCRIPTION OF UNDESIRABLE BEHAVIOR/CONDITION

1.

2.

FACTOR(S) AND SOLUTION(S): HOW TO REDUCE POSSIBILITY OF INCIDENT RECURRING

Selection of factors and solutions reflects the analysis of investigation team and is not meant to be a legally binding conclusion as to the Root Cause and/or solution.

Behavior / Condition	Root Cause	Solution(s) (Must Match Root Cause)	Person Responsible for Completion	Completion Target Date	Completion Actual Date

QUALITY REVIEW Correct root cause(s) identified? Do root cause(s) and solution(s) match? Are solution(s) feasible / maintainable?

Name:

Job Title:

PART 4: Date Solutions were Implemented & Validated (Were Solutions Effective?)

Date	Solution	Verifier / Validator Name and Job Title	Details (of I & V performed)

***JOB TASK - Select the most appropriate one** (primary job associated with incident-related work activity, avoid "Other" if possible)

1. CAMP	7. O&M	12. Trucking
2. Construction	8. Other Soil Work (e.g. Compaction)	13. Waste Management
3. Drilling	9. Sampling	14. Work Area Preparation
4. Driving	10. Site Walk/ Inspection	15. Other
5. Excavation/Trenching	11. Subsurface Clearance	
6. Gauging		

***EQUIPMENT INVOLVED THAT CONTRIBUTED TO H&S NEAR LOSS - Select all that apply**

- | | | | | |
|--------------------------------|-----------------------------|------------------------------------|--|------------------------------------|
| 1. Air Stripper | 25. Fire Extinguisher | 51. Maintenance Tool, General | 77. Safety Shoes / Boots | 98. Vapor Extraction System |
| 2. API Separator | 26. Forklift | 52. Manifold | 78. Safety Vest / Clothing | 99. Vapor-Phase Treatment System |
| 3. Automobile | 27. Front End Loader | 53. Manlift/Basket/Cherry Picker | 79. Rope | 100. Other System, Type:_____ |
| 4. Boom Material | 28. Grader | 54. Motor, Electric | 80. Bailer | 101. Surge Tank |
| 5. Bulldozer | 29. Hammer | 55. Oxidizer | 81. Geoprobe | 102. Underground Tank |
| 6. Cable | 30. Knife | 56. Pallet | 82. Hand Auger | 103. Telemetry System |
| 7. Carbon Drum / Vessel | 31. Non-Powered Equipment | 57. Piping | 83. PID | 104. Testing Devices |
| 8. Chain Block | 32. Powered Equipment | 58. Piping, Hose | 84. Multi-Gas Meter | 105. Tractor Trailer |
| 9. Compressor, Air | 33. Drill | 59. Piping, Injection/Mixing Point | 85. Sample Container | 106. Truck, Flatbed |
| 10. Control Panel (local) | 34. Grinder | 60. Hydrojet | 86. Split-Spoon Sampler | 107. Truck, Pickup |
| 11. Crane (mobile) | 35. Hydraulic Torque Wrench | 61. Centrifugal Pump | 87. Sling | 108. Truck, Tank Truck |
| 12. Drill Rig | 36. Powered Saw | 62. Diaphragm Pump | 88. Snow Blower | 109. Truck, Vacuum |
| 13. Drilling Equipment, Vacuum | 37. Impact Wrench | 63. Reciprocating Pump | 89. Snow Plow | 110. Safety Valve |
| 14. Drum, Vertical | 38. Saw | 64. Regenerative Pump | 90. Space Heater | 111. Block Valve |
| 15. Dump Truck | 39. Screwdriver | 65. Rotary Pump | 91. Air Sparging System | 112. Extraction Well |
| 16. Electric Heater | 40. Shears | 66. Transfer Pump | 92. Carbon Treatment System | 113. Monitoring Well |
| 17. Electrical Power Supply | 41. Shovel | 67. Submersible Pump | 93. Chemical Oxidation System | 114. Recovery Well |
| 18. Engine, Combustion | 42. Snip | 68. Face Shield | 94. Dual Phase Product Recovery System | 115. Winch |
| 19. Equipment Safety Grounding | 43. Wrench | 69. Fall Protection | 95. Groundwater Pump and Treat System | 116. Wire Rope |
| 20. Excavator / Power Shovel | 44. Hoist | 70. Gloves | 96. POET System | 117. No Equipment Involved |
| 21. Exclusion Zone Equipment | 45. Hook/Clamp/Buckle, etc. | 71. Hard Hat / Helmet | 97. Shed or Trailer | 118. MPT – Traffic Control Devices |
| 22. Fan / Blower | 46. Jack | 72. Hearing Protection | | 118. Not in List (describe):_____ |
| 23. Fencing | 47. Ladder, Extension | 73. Respiratory PPE (Chemical) | | |
| 24. Filter | 48. Ladder, Platform | 74. Respiratory PPE (Particulate) | | |
| | 49. Ladder, Step | 75. Safety Glasses | | |
| | 50. Lock Out / Tag Out | 76. Safety Goggles | | |

Appendix E- Factors, Root Causes, Solutions Form TM

Factors, Root Causes, Solutions (FRCS)™

Report Type (circle one): Loss / Near Loss / RPO

Project:

Project Manager/Principal:

List questionable item or NLI/LI equivalent of questionable item:

To determine root cause(s) of losses, near losses and questionable items & develop solutions to prevent recurrence, answer ALL the following questions.

Factor 1
Is there adequate documentation explaining how to do this task? — if conscious decision not to have documentation, verify decision and continue to Factor 2.

Verify there is a procedure, & JSA for this task.

Factor 2
If tools are needed for task, are they available, operable, safely maintained & is there proper workplace design?

Have person explain specifically what tools/equipment are needed and how they are accessed.

Factor 3
Has your supervisor consistently told you to do this task, as well as ALL tasks, according to procedures or acceptable practices?

Have person give an example of how this face-to-face communication occurred/occurs consistently.

Factor 4
Are you familiar with task documentation & do you know how to do task according to documentation or acceptable practices?

Have person verbalize how to do task according to documentation or acceptable practices.

Why doesn't adequate documentation exist for this task? Identify root cause(s).

Why aren't tools available, operable, safely maintained and/or why isn't there proper workplace design? Identify root cause(s).

Why didn't this face-to-face communication occur consistently? Identify root cause(s).

Why doesn't person know how to do task according to documentation or acceptable practices? Identify root cause(s).

Solution(s): Explain who will develop procedure, or JSA for this task (who writes, reviews, & approves, due date, etc.).

Solution(s): Explain specifically how tools will be made available, operable, safely maintained for task (who makes available, due date, etc.) and/or how workplace design will be made proper (who is responsible, due date, etc.).

Solution(s): Explain how supervisor/PM will consistently communicate face-to-face with person to do this task, as well as ALL tasks, according to procedures or acceptable practices.

Solution(s): Explain how person will be shown how to do task according to documentation or acceptable practices (who will show person, due date, etc.).

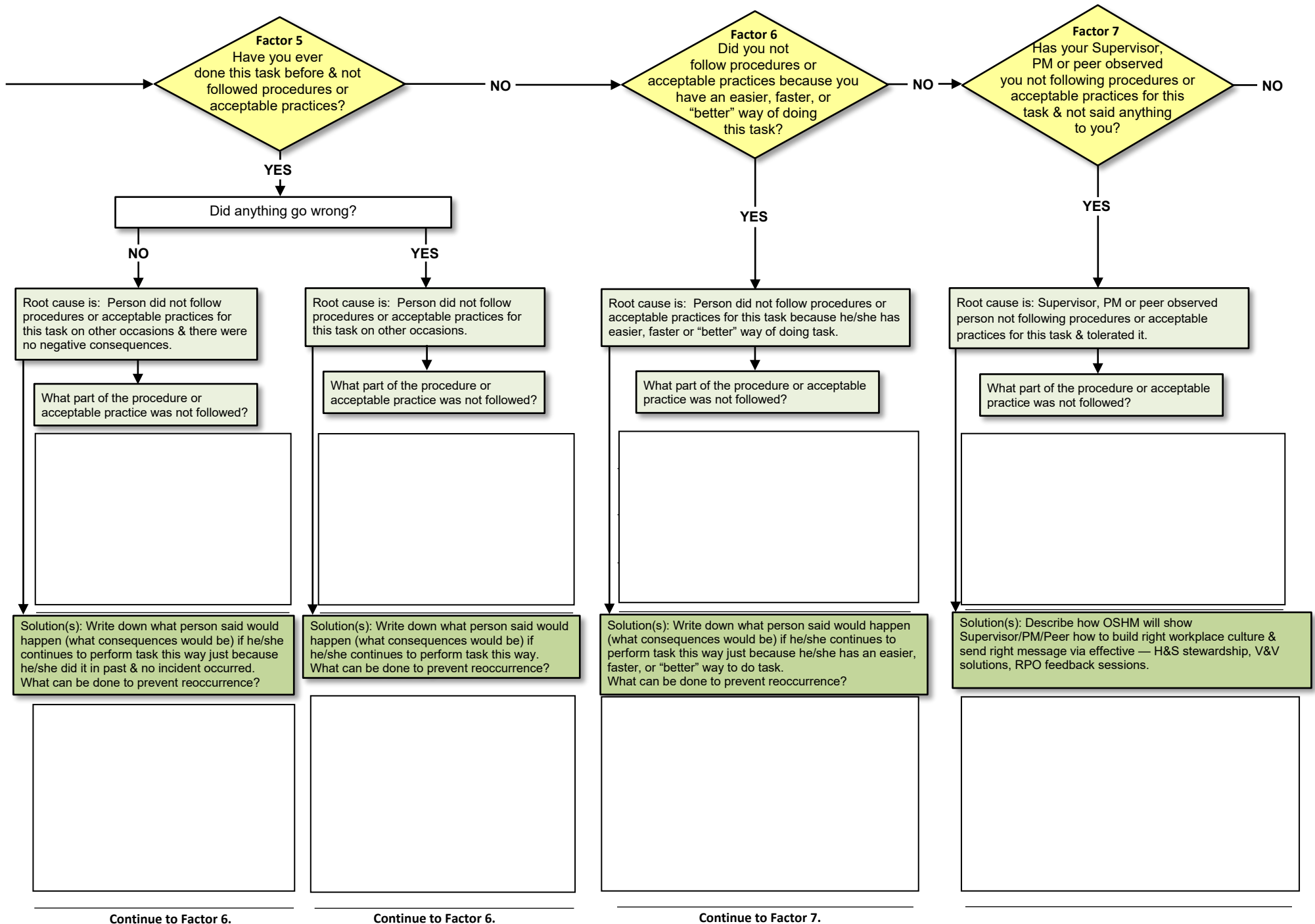
Continue to Factor 2.

Continue to Factor 3.

Continue to Factor 4.

Continue to Factor 5 on next page.

Factors, Root Causes, Solutions (FRCS)TM



Root cause is: Person did not follow procedures or acceptable practices for this task on other occasions & there were no negative consequences.

What part of the procedure or acceptable practice was not followed?

Solution(s): Write down what person said would happen (what consequences would be) if he/she continues to perform task this way just because he/she did it in past & no incident occurred. What can be done to prevent recurrence?

Continue to Factor 6.

Root cause is: Person did not follow procedures or acceptable practices for this task on other occasions.

What part of the procedure or acceptable practice was not followed?

Solution(s): Write down what person said would happen (what consequences would be) if he/she continues to perform task this way. What can be done to prevent recurrence?

Continue to Factor 6.

Root cause is: Person did not follow procedures or acceptable practices for this task because he/she has easier, faster or "better" way of doing task.

What part of the procedure or acceptable practice was not followed?

Solution(s): Write down what person said would happen (what consequences would be) if he/she continues to perform task this way just because he/she has an easier, faster, or "better" way to do task. What can be done to prevent recurrence?

Continue to Factor 7.

Root cause is: Supervisor, PM or peer observed person not following procedures or acceptable practices for this task & tolerated it.

What part of the procedure or acceptable practice was not followed?

Solution(s): Describe how OSHM will show Supervisor/PM/Peer how to build right workplace culture & send right message via effective — H&S stewardship, V&V solutions, RPO feedback sessions.

Continue to Factor 7.

Roux Heat Illness Prevention Program

**HEAT ILLNESS
PREVENTION PROGRAM**

CORPORATE HEALTH AND SAFETY DIRECTOR : Brian Hobbs, CIH, CSP
EFFECTIVE DATE : 10/2019
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1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has established this heat illness prevention program to assist in preventing workplace accidents, injuries and illnesses associated with temperature extremes. Roux is committed to taking every precaution to protect employees who might be exposed to heat stress, including establishing safe work practices, heat illness prevention controls, and emergency preparedness, which will be detailed in this plan.

2. SCOPE AND APPLICABILITY

Roux's Heat Illness Prevention Program applies to all employees who may be exposed to heat stress in the field.

3. ROLES AND RESPONSIBILITIES

The Heat Illness Prevention Program Administrator for Roux is the Corporate Health and Safety Director (CHSD), Brian Hobbs, CIH, CSP. The daily administration of the program is delegated to the Office Manager (OM) and Office Health and Safety Manager (OHSM). The CHSD has the authority and responsibility and overall accountability for the comprehensive implementation of this program.

All managers and supervisors shall implement and maintain the heat illness prevention program in work areas where there is a potential for heat stress.

Management Responsibilities

Management (i.e. Project Managers, Project Principals, OM) must provide the following to promote compliance and foster a good safety culture:

- Comply with applicable standards.
- Inform employees of the provisions of the heat illness prevention program and ensure understanding.
- Provide sufficient water, shade, rest areas, and other heat illness controls for employees.
- Assist with establishing work practices to minimize heat stress risks, such as acclimatization, required rest periods, employee monitoring, and strategic scheduling.
- Encourage employees to report hazardous conditions or heat illness symptoms.
- Provide training to any employee who could possibly be exposed to the risk of heat illness.

Employee Responsibilities

Employees are expected to actively participate in the organization's heat illness prevention program, which includes the following responsibilities:

- Receive appropriate training with regards to heat stress.
- Understand core concepts of heat illness prevention and follow guidelines to mitigate risks.
- Recognize the signs and symptoms of heat illness and immediately report them.
- Cooperate with workplace inspections and incident investigations.

Effective Communication

All Roux employees shall be accountable for ensuring there is effective communication with both the field team and their subcontractors. Communication between Roux employees project leads (e.g. Project Principal, Project Managers) and subcontractors (if applicable) will be established and maintained, so that employees can quickly

contact should there be a change in condition or someone at the Site exhibits signs/symptoms of heat stress. These types of incidents would follow Roux's Incident Investigation and Reporting Management Program 2.12 and Roux's Injury Illness Prevention Program 2.22.

4. HAZARD IDENTIFICATION AND ASSESSMENT

Prior to scheduled field work the project team shall ensure a hazard assessment is conducted as it relates to heat stress. This will include a determination of how much heat and exertion employees are likely to be exposed to based on the work activity.

Factors which can increase heat stress can include the following:

- Temperatures at the work site
- Humidity
- A lack of air movement or exchange
- The amount of time employees spend working in the heat
- The time of day work takes place
- Sources of radiant heat (e.g., sunlight, fire, or hot furnace)
- Work activities which produce heat (e.g., welding)
- Physical contact with warm or hot objects or liquids
- The clothing and PPE employees are required to wear
- Physically strenuous work

Results of the hazard analysis should be used to determine appropriate controls for mitigating heat stress whenever possible, for planning acclimatization and for developing work schedules which rotate workers to limit employee exposure. Typically, the Site Supervisor (SS) or Site Health and Safety Officer (SHSO) shall conduct worksite observations to assure all employees follow heat illness prevention procedures and that hazards are sufficiently controlled. However, all employees should be continuously evaluating work site conditions and be able to recognize heat stressors in order to prevent heat illnesses.

5. TRAINING

All Roux employees shall be trained on the topics listed below prior to beginning work which may potentially expose workers to heat stress.

Training Topics

- The environmental, behavioral, and personal risk factors for heat illness, such as radiant heat sources, exertion, clothing and PPE, and use of alcohol or drugs.
- Types of heat illnesses, common symptoms, and appropriate emergency response for each.
- The knowledge that mild symptoms may quickly become more severe or life-threatening.
- The importance of immediately reporting any signs or symptoms of heat illness to the supervisor.
- The employer's responsibility to provide shade, water, access to first aid, and cool-down rests during work and the employee's freedom to exercise their rights under this standard without fear of retaliation.

- The employer's heat stress plan and its procedures:
 - Procedures for employees who are newly assigned to work in high heat areas.
 - The organization's acclimatization methods, as applicable.
 - Heat wave procedures.
 - Heat illness and emergency response, including contact information.
- The importance of frequent consumption of water and the taking of rest breaks.
- How heat illness prevention applies to employees' specific tasks.

Increasing Training Effectiveness:

- The SS/SHSO will hold daily tailgates with the field team to go over daily work tasks and basic safety information including Job Safety Analysis (JSA) review as well as incorporate elements such as current weather and effects on the work activities for the day.
- If a heat wave or high heat is anticipated, OHSMs and/or OMs will provide communications to Roux employees prior to their shifts and remind them of any special high heat procedures.

6. DRINKING WATER

Employees shall be given access to potable drinking water. Access to water will be provided as near as possible to where employees are working, and there shall be enough locations so employees will have sufficient water. Water should be fresh and pure, free of taste or smell that would discourage employees from drinking, comfortably cool and obtained from an approved source.

The recommendation is that during warm or hot weather employees drink four 8-ounce glasses of water, or a total of one quart per hour, throughout the entire work shift. Easy access to sufficient potable drinking water throughout the work shift encourages employees to drink.

During a heat wave, water shall be replenished more often to keep available and cool. Water containers (and all spouts and levers) must be kept clean. If able provide single use drinking cups with appropriate waste receptacle. Accessible sanitation facilities shall also be maintained at work Sites as appropriate.

SS/SHSO are responsible for the following:

- Drink sufficient water before, during and after work shifts to maintain hydration.
- Encourage frequent drinking of small amounts of water throughout the shift. In high heat environments, remind field staff and subcontractors that drinking extra water may be necessary.
- Discourage the choosing of drinks with caffeine or sugar that may possibly dehydrate employees instead of water. Also, discourage the drinking of alcohol.
- Monitor the water supply.
- If employees become dehydrated and are unable to alleviate symptoms with the steps below, get them immediate medical attention.

Field Staff/Subcontractors are responsible for the following:

- Drink sufficient water before, during and after work shifts to maintain hydration. Drink up to 4 cups of water per hour, especially during hot weather.
- Be aware that in high heat situations, you may need to drink more water.

- Monitor yourself and others for signs of dehydration. If you feel dehydrated:
 - Follow Roux's Incident Notification Flowchart
 - Rest in the shaded resting area
 - Drink water in small amounts but frequently

7. ACCESS TO SHADE

Access to shaded areas will be provided to Roux staff as needed. Employees are encouraged to use these areas when they feel overheated. Roux's SS/SHSO shall oversee the proper implementation of shaded areas and will communicate these locations on a daily basis with the Field Team.

Depending on the Site shaded areas can include the following:

- Pop-up Tents
- Canopies
- Umbrellas
- Structures mechanically ventilated or open to air movement
 - Garage
- Conex mounted RV canopies
- Full and thick tree canopies that block direct sunlight
- Buildings
- Enclosed areas only if they provide cooling comparable to shade in open air
 - Vehicles with air conditioning

Shaded Area Requirements

Shade shall be strong enough to cool employees down and other shadows should not be visible in the shade. Shade will be provided by Roux when the air temperature exceeds 80°F. If the temperature is less than 80°F, shade will be available and provided upon request. The SS/SHSO will monitor conditions to determine when the air will exceed (and is exceeding) 80°F. For most Sites air will be monitored hourly and shade will be setup immediately if 80°F is exceeded.

Shade shall be located as close as practical to areas where employees are working, and is easily accessible. These areas will be considered safe and free from other hazards. Shaded areas should be large enough to accommodate all employees who are on a break, resting or recovering without crowding. Should natural vegetation be used for shade the SS/SHSO will evaluate shade for effectiveness.

Field Staff Responsibilities

Field Staff should take ordinary rest breaks in the shaded areas and monitor themselves for signs of heat stress, and go to the shaded area when they need to cool down. Any issues or problems with shaded areas should be reported to the SS/SHSO for the Site.

If shaded areas are used for a preventative cool-down the SS/SHSO will ensure the affected employees will remain in the shade until they begin to feel better. The SS/SHSO will continue to monitor the employees and ask them if

they are experiencing symptoms of a heat illness. Employees shall not be sent back to work before symptoms have ended and at a minimum at least 10 minutes of rest.

8. MONITORING AND SCHEDULING

Monitoring

The SS/SHSO and Field Team will continue to monitor themselves and others for signs of heat illness. The SS/SHSO will monitor when the air temperature exceeds 80°F. Throughout the summer, weather and temperature will be monitored at least two weeks ahead, and the work schedule will be planned to accommodate the expected weather.

Scheduling

Scheduling accommodations may include:

- Working during cooler hours of the day
- Working at night
- Stopping work early
- Rescheduling work activities
- Increasing frequency of breaks

In general, strenuous work activities shall be rescheduled to the coolest parts of the day.

Special precautions are required for temperatures above 80°F, 95°F and heat waves. These precautions are provided in sections below.

8. ACCLIMATIZATION AND NEW EMPLOYEE PROCEDURES

Roux requires employees to be acclimatized in order for them to better tolerate heat in the workplace. Acclimatization is the physical process of adapting to a different thermal environment, allowing a better toleration of heat. Acclimatization procedures require gradual exposure that gives the employee time to adjust to each level of exposure. Acclimatization is essential for new employees, but is necessary for all employees when the temperature significantly changes. Heat stress is much more likely if these procedures are not followed.

The SS/SHSO is responsible for observing new employees during their first 14 days of employment in high heat areas.

Re-acclimatization is necessary if employees are absent from high heat environments for a week or more or the temperature increases significantly.

9. HEAT WAVE AND EXTREME HEAT PROCEDURES

Heat Wave Procedures

A heat wave is defined as consistent temperatures over 80°F or if the temperature is 10° higher than the average daily temperatures in the preceding 5 days.

SS/SHSO and Project Management (e.g. PP, PM) shall closely observe and monitor employees during a heat wave. The Field Teams should institute a ratio of one SS to 20 or fewer employees, a mandatory buddy system, or a

consistent practice for supervisors to check on employees. Pre-shift meetings to review high heat procedures with employees will be carried out to emphasize work rest schedules, drinking water, shade, etc.

Extreme Heat Procedures

When work site temperatures equal or exceed 95°F, the employer will enact extreme heat procedures:

- Employees will be closely observed by the SS/SHSO for signs of heat illness. New employees will be supervised for acclimatization.
- Effective communication and monitoring will be assured through the use of periodic check ins with the SS/SHSO via phone. Communications between employees and Project Management (e.g. PP/PM) will be established and maintained. Mandatory 10-minute break periods are required for every two hours worked. SS/SHSO must enforce this rule.
- Pre-shift safety tailgate meetings will occur to review procedures and to remind employees to drink water and take cool-down rests if needed. SS/SHSO shall remind employees to rest and drink water. Employees should drink more water than usual.

10. EMERGENCY RESPONSE PROCEDURES

Roux is dedicated to providing prompt appropriate care for all employees who report or show symptoms of heat illness. If an employee shows signs of heat illness, they will be monitored and shall not be left alone or sent home without being offered first aid or emergency medical services. If on-Site personnel require any medical treatment, the following steps will be taken:

1. Notify Roux's Project and Corporate Management Team for any work-related injury and/or illness occurrence, and communicate with the contracted Occupational Health Care Management Provider, AllOne Health (AOH), immediately following the notifications provided above.
2. Based on discussions with the Project Team, Corporate Management and the AOH evaluation, if medical attention beyond onsite First Aid is warranted, transport the injured / ill person (IP) to the Urgent Care Center, or notify the Fire Department or Ambulance Emergency service and request an ambulance or transport the victim to the hospital, and continue communications with Corporate Management Team. An Urgent Care/Hospital Route map with locations and directions are provided within Site Specific Health and Safety Plans.
3. First aid medical support will be provided by onsite personnel trained and certified in First Aid, Cardio Pulmonary Resuscitation (CPR), Automatic External Defibrillation (AED), and Blood-Borne Pathogens (BBP) Awareness, until relieved by emergency medical services (EMS).
4. The SHSO and Project Manager will perform a Loss Investigation (LI) and the Project Team will complete the final Loss Report.

11. HEAT RELATED ILLNESSES

Heat Stress

Heat stress is a significant potential hazard and can be associated with heavy physical activity and/or the use of personal protective equipment (PPE) in hot weather environments. For these reasons, the company will provide potable drinking water and access to shade or other areas of relief (i.e., air-conditioned vehicles, work trailers). Supervisors, prior to supervising personnel in the field, as well as all personnel involved with the field work of a project, are trained in this HASP which includes preventing heat-related illnesses and the below procedures in response to heat-related symptoms and illness. Since much of our work is dependent upon environmental factors beyond our control, we must closely monitor air temperature and humidity and be aware of avoiding radiant heat sources and providing as much air circulation as possible wherever we work. Physical factors that need to be evaluated as part of our Job Safety Analysis (JSA) reviews include the level of physical activity and duration of work

and the type (i.e., color, weight breathability) of the clothing we select. In addition, personal factors such as age, weight, fitness, drug/alcohol use and prior history of heat-related illness need to be considered.

Heat cramps are brought on by prolonged exposure to heat. As an individual sweats, water and salts are lost by the body resulting in painful muscle cramps. The signs and symptoms of heat stress are as follows:

- Severe muscle cramps, usually in the legs and abdomen;
- Exhaustion, often to the point of collapse; and
- Dizziness or periods of faintness.

First aid treatment includes, but is not limited to, shade, rest, and fluid replacement. Typically, the individual should recover within one-half hour while being monitored constantly. If the individual has not improved substantially within 30 minutes and the body temperature has not decreased, the individual should be transported to a hospital for medical attention.

Heat Exhaustion

Heat exhaustion may occur in a healthy individual who has been exposed to excessive heat while working or exercising. The circulatory system of the individual fails as blood collects near the skin to rid the body of excess heat through transference. The signs and symptoms of heat exhaustion are as follows:

- Rapid and shallow breathing;
- Weak pulse;
- Cold and clammy skin with heavy perspiration;
- Skin appears pale;
- Fatigue and weakness;
- Dizziness; and
- Elevated body temperature.

First aid treatment includes, but is not limited to, cooling the victim, elevating the feet, and replacing fluids. If the individual is not substantially improved within 30 minutes and the body temperature has not decreased, the individual should be transported to the hospital for medical attention.

Heat Stroke

Heat stroke occurs when an individual is exposed to excessive heat and stops sweating. This condition is classified as a MEDICAL EMERGENCY requiring immediate cooling of the victim and transport to a medical facility. The signs and symptoms of heat stroke are as follows:

- Dry, hot red skin;
- Body temperature approaching or above 105 degrees F;
- Confusion, altered mental state, slurred speech;
- Seizures;
- Large (dilated) pupils; and
- Loss of consciousness – the individual may go into a coma.

First aid treatment requires immediate cooling and transportation to a medical facility. Heat stress is a significant hazard if any type of protective equipment (semi-permeable or impermeable) that prevents evaporative cooling is worn in hot weather environments.

11. OTHER HEAT CONTROLS

Clothing and PPE

Employees should choose clothing that is reflective, light-colored, lightweight, loose-fitting and breathable. Clothing should cover the exposed parts of the body. In direct sun, hard hats with a brim or bill may be helpful. Should specialized cooling garments be applicable please consult with your OM/OHSM/CHSD.

Managing Employee Risk Factors

It is recommended that employees are aware of how their health can affect their risk of heat stress. The following increases ones risk for a heat related illness:

- A poor level of physical fitness
- Obesity
- Chronic or acute illnesses
- Conditions such as diabetes, heart disease or high blood pressure
- Certain medications, such as diuretics
- Age (60+)

Employees should:

- Maintain their health outside of work
- Be aware of the effects of medications
- Drink adequate amounts of water
- Eat light, cool meals during work shifts and save heavy meals until after the shift is over
- Do not skip meals: food helps replace electrolytes when sweating
- Take breaks as needed
- Do not consume alcohol prior to working in a hot environment

Roux Personal Protective Equipment Management Program

PERSONAL PROTECTIVE EQUIPMENT MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY MANAGER : **Brian Hobbs, CIH, CSP**
EFFECTIVE DATE : **01/19**
REVISION NUMBER : **4**

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1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has instituted the following program to establish guidelines for the selection of personal protective equipment (PPE) for use by Roux personnel performing field activities in hazardous environments. PPE is not meant to be a substitute for engineering, work practice, and/or administrative controls, but PPE should be used in conjunction with these controls to protect the employees in the work place. Clothing, body coverings, and other accessories designed to prevent worker exposure to workplace hazards are all types of PPE. To ensure adequate PPE employee-owned PPE is evaluated on a case-by-case basis to insure its adequacy, maintenance and sanitation.

2. SCOPE AND APPLICABILITY

These guidelines apply to all PPE selection decisions to be made in implementing the Roux program. The foundations for this program are the numerous Occupational Health and Safety Administration (OSHA) standards related to PPE cited in 29 CFR 1910 Subpart I, 29 CFR 1926 Subpart E, and the hazardous environment work employee protection requirements under the OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) standard at 29 CFR 1910.120 and 1926.65. To ensure hazard assessments are documented the levels of protection, types of protection and tasks requiring protection are covered in site-specific Health and Safety Plans (HASPs) and Job Safety Analyses (JSAs).

3. PROCEDURES

Due to the varied nature of site activities and the different potential hazards associated with different sites, several aspects must be considered when selecting PPE. The following text describes PPE selection logic and provides guidelines and requirements for the appropriate selection and use of PPE.

3.1 Introduction

To harm the body, chemicals must first gain entrance. The intact skin and the respiratory tract are usually the first body tissues attacked by chemical contaminants. These tissues provide barriers to some chemicals but in many cases, are damaged themselves or are highly permeable by certain chemical compounds. Personal protective equipment therefore is used to minimize or eliminate chemical compounds coming into contact with these first barrier tissues.

The proper selection of equipment is important in preventing exposures. The PM making the selection will have to take several factors into consideration. The level of protection, type and kind of equipment selected depends on the hazardous conditions and in some cases cost, availability, compatibility with other equipment, and performance. An accurate assessment of all these factors must be made before work can be safely carried out.

3.2 Types of PPE

The type and selection of PPE must meet certain general criteria and requirements as required under OSHA 29 CFR 1910.132 and 1926.95. In addition to these general requirements, specific requirements and specifications exist for some types of PPE that form the basis of the protective clothing scheme. Following is a list of the common types of specific PPE and the specific requirements for the PPE type, where applicable:

1. Hard Hats - Regulated by 29 CFR 1910.135 and 1926.100; and, specified in ANSI Z89.1.

2. Face Shields and Safety Glasses - Regulated by 29 CFR 1910.133 and 1926.102; and, specified in ANSI Z87.1.
3. Respiratory Protection - Regulated by 29 CFR 1910.134 and 1926.103.
4. Hand Protection - Not specifically regulated.
5. Foot Protection - Regulated by 29 CFR 1910.136 and 1926.96; and, specified in ANSI Z41.1.
6. Protective Clothing (e.g., fully encapsulated suits, aprons) - Not specifically regulated.

3.3 Protective Clothing Selection Criteria

3.3.1 Chemicals Present

The most important factor in selecting PPE is the determination of what chemicals the employee may be exposed to. On field investigations, the number of chemicals may range from a few to several hundred. The exact chemicals or group of chemicals present at the site (certain groups tend to require similar protection) can be determined by collecting and analyzing samples of the air, soil, water, or other site media. When data are lacking, research into the materials used or stored at the site can be used to infer chemicals possibly on the site.

Once the known or suspected chemicals have been identified, and taking into consideration the type of work to be performed, the most appropriate clothing shall be selected.

Protective garments are made of several different substances for protection against specific chemicals. There is no universal protective material. All will decompose, be permeated by, or otherwise fail to protect under given circumstances. Fortunately, most manufacturers make guides to the use of their products (i.e., Dupont's Tyvek™ Permeation Guide). These guides are usually for gloves and coveralls and typically provide information regarding chemical degradation rates (failure of the material to maintain structural integrity when in contact with the chemical), and may provide information on the permeation rate (whether or not the material allows the chemical to pass through). When permeation tables are available, they shall be used in conjunction with degradation tables to determine the most appropriate protective material.

During most site work, chemicals are usually in mixed combinations and the protective materials are not in continuous contact with pure chemicals for long periods of time; therefore, the selected material may be adequate for the particular chemical and type of work being performed, yet not the "best" protecting material for all site chemicals and activities. Selection shall depend upon the most hazardous chemicals based on their hazards and concentrations. Sometimes layering, using several different layers of protective materials, affords the best protection.

3.3.2 Concentration of the Chemical(s)

One of the major criteria for selecting protective material is the concentration of the chemical(s) in air, liquid, and/or solid state. Airborne and liquid chemical concentrations should be compared to the OSHA standards and/or American Conference of Governmental Industrial Hygienists (ACGIH) and National Institute for Occupational Safety and Health (NIOSH) guidelines to determine the level of skin or other absorptive surface (e.g., eyes) protection needed. While these standards are not designed specifically for skin exposed directly to the liquid, they may provide skin designations indicative of chemicals known to have significant skin or dermal absorption effects. For example, airborne levels of PCB on-site may be

low because it is not very volatile, so the inhalation hazard may be minimal; however, PCB-containing liquid coming in direct contact with the skin may cause overexposure. Thus, PCB has been assigned a skin designation in both the OSHA and ACGIH exposure limit tables.

3.3.3 Physical State

The characteristics of a chemical may range from nontoxic to extremely toxic depending on its physical state. Inorganic lead in soil would not be considered toxic to site personnel, unless it became airborne, since it is generally not absorbed through the intact skin. Organic lead in a liquid could be readily absorbed. Soil is frequently contaminated with hazardous materials. Concentrations will vary from a few parts per million to nearly one hundred percent. The degree of hazard is dependent on the type of soil and concentration of the chemical. Generally speaking, "dry" soils do not cause a hazard to site personnel if they take minimal precautions such as wearing some type of lightweight gloves.

3.3.4 Length of Exposure

The length of time a material is exposed to a chemical increases the probability of breakthrough. Determinations of actual breakthrough times for short-term exposures indicate that several different materials can be used which would be considered inadequate under long-term exposures. It should be kept in mind that during testing, a pure (100% composition) liquid is usually placed in direct contact with the material producing a worst-case situation.

3.3.5 Abrasion

When selecting protective clothing, the job the employee is engaged in must be taken into consideration. Persons moving drums or performing other manual tasks may require added protection for their hands, lower chest and thighs. The use of leather gloves and a heavy apron over the other normal protective clothing will help prevent damage to the normal PPE and thus reduce worker exposures.

3.3.6 Dexterity

Although protection from skin and inhalation hazards is the primary concern when selecting PPE, the ability to perform the assigned task must be maintained. For example, personnel cannot be expected to perform work that requires fine dexterity if they must wear a thick glove. Therefore, the PPE selection process must consider the task being performed and provide PPE alternatives or techniques that allow dexterity to be maintained while still protecting the worker (e.g., wearing tight latex gloves over more bulky hand protection to increase dexterity).

3.3.7 Ability to Decontaminate

If disposable clothing cannot be used, the ability to decontaminate the materials selected must be taken into consideration. Once a chemical contacts the material, it must be cleaned before it can be reused. If the chemical has completely permeated the material, it is unlikely that the clothing can be adequately decontaminated and the material should be discarded.

3.3.8 Climactic Conditions

The human body works best with few restraints from clothing. Protective clothing adds a burden by adding weight and restricting movement as well as preventing the natural cooling process. In severe situations, a modified work program must be used.

Some materials act differently when they are very hot and very cold. For example, PVC becomes almost brittle in very cold temperatures. If there are any questions about the stability of the protective materials under different conditions, the manufacturer should be contacted.

3.3.9 Work Load

Like climactic conditions, the type of work activity may affect work duration and the ability of personnel to perform certain tasks. Similarly, the amount of protective materials a person wears will affect their ability to perform certain tasks. For example, a person in a total encapsulating suit, even at 72 °F, cannot work for more than a short period of time without requiring a break.

The work schedule should be adjusted to maintain the health of the employees. Special consideration should be given to the selection of clothing that both protects and adds the least burden when personnel are required to perform strenuous tasks. Excessive bodily stress frequently represents the most significant hazard encountered during field work.

3.4 Types of Protective Materials

1. Cellulose or Paper
2. Natural and Synthetic Fibers
 - a. Tyvek™
 - b. Nomex™
3. Elastomers
 - a. Polyethylene
 - b. Saran
 - c. Polyvinyl Chloride (PVC)
 - d. Neoprene
 - e. Butyl Rubber
 - f. Viton

3.5 Protection Levels

3.5.1 Level A Protection

Level A protection (a fully encapsulated suit) is used when skin hazards exist or when there is no known data that positively rule out skin and other absorption hazards. Since Level A protection is extremely physiologically and psychologically stressful, the decision to use this protection must be carefully considered. At no time will Level A work be performed without the consent of the OM. The following conditions suggest a need for Level A protection:

- confined facilities where probability of skin contact is high;
- sites containing known skin hazards;
- sites with no established history to rule out skin and other absorption hazards;
- atmosphere immediately dangerous to life and health (IDLH) through the skin absorption route;
- site exhibiting signs of acute mammalian toxicity (e.g., dead animals, illnesses associated with past entry into site by humans);

- sites at which sealed drums of unknown materials must be opened;
- total atmospheric readings on the Photoionization Detector (PID), Flame Ionization Detector (FID), and similar instruments indicate 500 to 1,000 ppm of unidentified substances; and
- extremely hazardous substances (e.g., cyanide compounds, concentrated pesticides, Department of Transportation Poison "A" materials, suspected carcinogens and infectious substances) are known or suspected to be present and skin contact is possible.

The following items constitute Level A protection:

- open circuit, pressure-demand self-contained breathing apparatus (SCBA);
- totally encapsulated suit;
- gloves, inner (surgical type);
- gloves, outer;
- chemical protective;
- boots, chemical protective, steel toe and shank;
- radiation detector (if applicable); and
- communications.

3.5.2 Level B Protection

Level B protection is utilized when the highest level of respiratory protection is needed but hazardous material exposure to the few unprotected areas of the body is unlikely.

The following conditions suggest a need for Level B protection:

- the type and atmospheric concentration of toxic substances have been identified and they require the highest level of respiratory protection;
- IDLH atmospheres where the substance or concentration in the air does not present a severe skin hazard;
- the type and concentrations of toxic substances do not meet the selection criteria permitting the use of air purifying respirators; and
- it is highly unlikely that the work being done will generate high concentrations of vapors, gases or particulates, or splashes of materials that will affect the skin of personnel.

Personal protective equipment for Level B includes:

- open circuit, pressure-demand SCBA;
- chemical protective clothing:
- overalls and long-sleeve jacket; or
- coveralls;
- gloves, inner (surgical type); gloves, outer, chemical protective;
- boots, chemical protective, steel toe and shank; and
- communications optional.

3.5.3 Level C Protection

Level C protection is utilized when both skin and respiratory hazards are well defined and the criteria for the use of negative pressure respirators have been fulfilled (i.e., known contaminants and contaminant concentrations, acceptable oxygen levels, approved filter/cartridge available, known cartridge service life, etc.). Level C protection may require carrying an emergency escape respirator during certain initial entry and site reconnaissance situations, or when applicable thereafter.

Personal protective equipment for Level C typically includes:

- full facepiece air-purifying respirator;
- emergency escape respirator (optional);
- chemical protective clothing:
 - overalls and long-sleeved jacket; or
 - coveralls;
- gloves, inner (surgical type);
- gloves, outer, chemical protective; and
- boots, chemical protective, steel toe and shank.

3.5.4 Level D Protection

Level D is the basic work uniform. Personal protective equipment for Level D includes:

- coveralls;
- safety boots/shoes;
- eye protection;
- hand protection;
- reflective traffic safety vest (mandatory for traffic areas or railyard);
- hard hat (with face shield is optional); and
- emergency escape respirator is optional.

3.5.5 Level E Protection

Level E protection is used when radioactivity above 10 mr/hr is detected at the site. Personal protective equipment for Level E includes:

- coveralls;
- air purifying respirator;
- time limits on exposure;
- appropriate dermal protection for the type of radiation present; and
- radiation dosage monitoring.

3.5.6 Additional Considerations

Field work will contain a variety of situations due to chemicals in various concentrations and combinations. These situations may be partially ameliorated by following the work practices listed below:

1. Some sort of foot protection is needed on a site. If the ground to be worked on is contaminated with liquid and it is necessary to walk in the chemicals, some sort of protective "booties" can be worn over the boots. This cuts down on decontamination requirements. They are designed with soles to help prevent them from slipping around. If non-liquids are to be encountered, a Tyvek™ bootie could be used. If the ground contains any sharp objects, the advantage of booties is questionable. Boots should be worn with either cotton or wool socks to help absorb the perspiration.
2. If the site situation requires the use of hard hats, chin straps should be used if a person will be stooping over where his/her hat may fall off. Respirator straps should not be placed over the hard hats. This will affect the fit of the respirator.

Some types of protective materials conduct heat and cold readily. In cold conditions, natural material clothing should be worn under the protective clothing. Protective clothing should be removed prior to allowing a person "to get warm". Applying heat, such as a space heater, to the outside of the protective clothing may drive the contaminants through. In hot weather, under clothing will absorb sweat. It is recommended that workers use all cotton undergarments.

3. Body protection should be worn and taped to prevent anything from running into the top of the boot. Gloves should be worn and taped to prevent substances from entering the top of the glove. Duct tape is preferred, but masking tape can be used. When aprons are used, they should be taped across the back for added protection. However, this should be done in such a way that the person has mobility.
4. Atmospheric conditions such as precipitation, temperature, wind direction, wind velocity, and pressure determine the behavior of contaminants in air or the potential for volatile material getting into the air. These parameters should be considered in determining the need for and the level of protection.
5. A program must be established for periodic monitoring of the air during site operations. Without an air monitoring program, any changes would go undetected and might jeopardize response personnel. Monitoring can be done with various types of air pumps and filtering devices followed by analysis of the filtration media; personnel dosimeters; and periodic walk-throughs by personnel carrying real-time survey instruments.
6. For operations in the exclusion zone, different levels of protection may be selected, and various types of chemical-resistant clothing may be worn. This selection should be based on the job function, reason for being in the area, and the potential for skin contact with, or inhalation of, the chemicals present.
7. Escape masks must be readily available when levels of respiratory protection do not include a SCBA and the possibility of an IDLH atmosphere exists. Their use can be made on a case-by-case basis. Escape masks could be strategically located at the site in areas that have higher possibilities of vapors, gases or particulates.

Roux Heavy Equipment Exclusion Zone Management Program

**HEAVY EQUIPMENT EXCLUSION ZONE
MANAGEMENT PROGRAM**

CORPORATE HEALTH AND SAFETY MANAGER : Brian Hobbs, CIH, CSP
EFFECTIVE DATE : 01/2019
REVISION NUMBER : 1

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1. PURPOSE

The purpose of the Exclusion Zone Management Program is to establish the minimum clearance distance that must be maintained between workers and heavy equipment while equipment is in operation (i.e., engaged or moving). The intent is to have no personnel or equipment entering the Exclusion Zone while the equipment is in operation or moving to ensure that Roux and Subcontractor employees are not unnecessarily exposed to the hazards of the equipment.

2. SCOPE AND APPLICABILITY

This Management Program applies to all Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") employees and their subcontractors who are performing field work and are potentially exposed to heavy equipment. For the purpose of this program, heavy equipment includes, but is not necessarily limited to: excavation equipment, drill rigs, vacuum trucks, forklifts, lull telehandlers, man lifts, bobcats, delivery trucks, etc.

3. PROCEDURES

As specified in the following sections of this Program, an Exclusion Zones must be established and maintained during activities involving the movement/operation of heavy equipment. The Exclusion Zone requirements apply to all personnel on the site but are primarily focused on those personnel who are required to be working in the vicinity of the equipment. The exclusion zone is in effect when heavy equipment is moving or engaged (ex. movement of an arm or bucket of an excavator, rotation of an auger, lifting of a load with a forklift, raising/lowering of a man lift, etc.).

1. The Exclusion Zone must meet the following minimum requirements:

- A minimum distance of 10 feet from all heavy equipment and loads being moved by the equipment;
- Greater than the swing/reach radius of any moving part on the heavy equipment (i.e., for large equipment this may mean an exclusion zone distance larger than 20 feet);
- Greater than the tip-over distance of the heavy equipment; and
- Greater than the radius of blind spots.

The size of the Exclusion Zone will need to be determined on a task-specific basis considering the size of the heavy equipment in use and the task being performed. Prior to all heavy equipment operations, the Exclusion Zone(s) distance must be specifically identified in the Job Safety Analysis (JSA).

2. The spotter (or another individual) should be assigned responsibility for enforcing the Exclusion Zone. The spotter should be positioned immediately outside of the Exclusion Zone within a clear line of sight of the equipment operator. The spotter must signal the operator to stop work if anyone or anything has the potential to enter or compromise the Exclusion Zone. The operator should stop work if the spotter is not within his/her line of sight. If multiple pieces of equipment are being used, each piece of equipment must have its own Exclusion Zone and spotter. For large excavation and demolition projects the spotter should be in constant radio contact (not cell phone) with the machine driver.
3. If an individual must enter the Exclusion Zone, the designated Spotter must signal the Equipment Operator to stop the equipment. Once the equipment is no longer moving (ex. movement of an arm of an excavator is STOPPED, lifting of a load with a forklift STOPPED, raising/lowering of a man lift is

STOPPED, etc.), the operator must DISENGAGE THE CONTROLS and STOP and SIGNAL BY "SHOWING HIS HANDS". This signal will indicate that it is safe for the personnel to enter the limits of the Exclusion Zone to perform the required activity. The equipment must remain completely stopped/disengaged until all personnel have exited the limits of the Exclusion Zone and the designated Spotter has signaled by "SHOWING HIS HANDS" to the Equipment Operator that it is safe to resume operations.

4. When entering the limits of the Exclusion Zone, personnel must at a minimum:
 - Establish eye contact with the operator and approach the heavy equipment in a manner that is in direct line of sight to the Equipment Operator;
 - Never walk under any suspended loads or raised booms/arms of the heavy equipment; and
 - Identify a travel path that is free of Slip/Trip/Fall hazards.
5. The Exclusion Zone should be delineated using cones with orange snow fence or solid poles between the cones, barrels, tape or other measures. For work in rights-of-way rigid barriers, such as Jersey barriers or temporary chain link fence should be used. For certain types of wide-spread or moving/mobile equipment operations, such delineation may not be practicable around pieces of equipment or individual work areas. In such instances, it is expected that the entire operation will be within a larger secure work area or that additional means will be utilized to ensure security of the work zone.

All subcontractors who provide heavy equipment operations to field projects must implement a program that meets or exceeds the expectations described above as well as any additional requirements that may be required on a client or site-specific basis.

3.1 Exceptions

It is recognized that certain heavy equipment activities may require personnel to work within the limits of the Exclusion Zone as specified in this program. Such activities may include certain excavation clearance tasks, drill crew activities or construction tasks. However, any such activity must be pre-planned with emphasis on limiting the amount and potential exposure of any activity required within the zone. The critical safety steps to mitigate the hazards associated with working within the Exclusion Zone must be defined in the JSA and potentially other project-specific plans (i.e., critical lift plans, etc.), and approved by the Roux Project Principal and client representative, if required, prior to implementation.

4. TRAINING

Many Roux projects have different requirements that are client-specific or site-specific in nature. It is the responsibility of the Project Principal (or Project Manager if delegated this responsibility by the Project Principal) to ensure that the workers assigned to his/her projects are provided orientation and training with respect to these client and/or site-specific requirements.

Roux Subsurface Utility Clearance Management Program

SUBSURFACE UTILITY CLEARANCE MANAGEMENT PROGRAM

CORPORATE HEALTH AND SAFETY MANAGER : Brian Hobbs, CIH, CSP
EFFECTIVE DATE : 01/19
REVISION NUMBER : 2

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Appendix A – Definitions

Appendix B – Example of Completed One Call

Appendix C – Roux Subsurface Utility Clearance Checklist

Appendix D – Utility Verification/Site Walkthrough Record

1. PURPOSE

Roux Associates, Inc. and its affiliated companies, Roux Environmental Engineering and Geology, D.P.C, and Remedial Engineering (collectively, "Roux") has instituted the following program for completing proper utility mark-outs and for conducting subsurface clearance activities. This establishes a method to ensure, to the greatest extent possible, that utilities have been identified and contact and/or damage to underground utilities and other subsurface structures will be avoided.

2. SCOPE AND APPLICABILITY

The Subsurface Utility Clearance Management Program applies to all Roux employees, its contractors and subcontractors. Employees are expected to follow this program for all intrusive work involving Roux or other personnel (e.g., contractors/subcontractors) working for Roux unless the client's requirements are more stringent. Deviation from the program regardless of the specific work activity or work location must be pre-approved based on client's site knowledge, site experience and client's willingness for the use of this program. Any and all exceptions shall be documented and pre-approved by the Project Principal and the Office Manager.

3. PROCEDURES

3.1 Before Intrusive Activities

During the project kick-off meeting for intrusive activities the PM will review the Roux Subsurface Utility Clearance Checklist and Utility Verification (Appendix C) / Site Walkthrough Record (Appendix D) and the below bullet points with the project field team:

(Please note that these are intended as general reminders only and should not be solely relied upon.)

- Ensure the Mark-out / Stake-out Request Information Sheet (or one-call report) is complete and accurate for the site including address and cross streets and review for missing utilities. (Note: utility mark-out organizations do not have contracts with all utilities and it is often necessary to contact certain utilities separately such as the local water and sewer authorities).
- Have written confirmation prior to mobilizing to the site that the firm or Roux personnel performing the intrusive activity has correctly completed the mark-out notification process including requesting mark-outs, waiting for mark-outs to be applied to ground surfaces at the site, and receiving written confirmation of findings (via fax or email) from utility operators for all known or suspected utilities in the proposed area of intrusive activity, and provided utility owner written confirmation to Roux personnel for review and project files documentation.
- Do not begin any intrusive activity until all utilities mark-out has been completed (i.e., did all utilities mark-out the site?) and any unresolved mark-out issues are finalized. Perform a site walk to review the existing utilities and determine if said utilities have been located by the utility locators.

(Note: The Tolerance Zone is defined as two feet plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct banks and other non-cylindrical utilities) of a utility and two feet from the outside edge of any subsurface structure.)

- Install Pre-Clearance exploratory test holes (e.g., hand-dug test holes or other soft digging techniques) for the first 5-ft below land surface (BLS) at each location prior to conducting mechanized intrusive activities. The size of the pre-clearance exploratory test hole should be at a minimum twice the diameter of any downhole tool or boring device. (Note: Pre-Clearance exploratory test holes should be defined in the SOW/proposal provided to the client to prevent project delays and to allow adequate time for PM and PP to evaluate alternative approaches for the project. Alternative approaches will need to be pre-approved by the OM.

- For excavations, all utilities need to be marked and then exposed by hand following the protocols in this program. Pre-clearing for excavations may be performed by the “moat” technique (i.e., soft digging around the perimeter). In these cases, dig in small lifts (<12” for first 5 feet) using a dedicated spotter.) For Tolerance Zone work, unless otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of hand-dug test holes performed to expose the utility. Once structures have been verified a minimum clearance of two feet must be maintained between the utility and any powered equipment.
- In addition, the following activities should be conducted:
 - Review the work scope to be performed with the site owner/tenant to determine if it may impact any utilities;
 - Attempt to procure any utility maps or historic drawings of subsurface conditions of the site;
 - **Determine the need for utility owner companies to be contacted or to have their representatives on site;**
 - Where mark-outs terminate at the property boundary, consider the use of private utility locating / GPR / geophysical-type services which may be helpful in locating utilities. Use of private utility locating firms, however, does not eliminate the legal requirement for the Excavator firm to submit a request for Public Utility Mark-outs. Also, the information provided by the service may be inaccurate and unable to locate subsurface utilities and structures in urban areas, landfills, urban fill areas and below reinforced slabs, etc. They should not be relied upon as the only means of performing utility clearance;
 - Documented description of the dig site which is included in the projects Health and Safety Plan (HASP) and one call report will be maintained in the field and distributed amongst Roux personnel its contractors and subcontractors; and
 - Documentation of the actual placement of mark outs in the field shall be collected using dated pictures, videos and/or sketches with distance from markings to fixed objects. All documentation shall be maintained within the project file.

3.2 During Intrusive Activities

The PM, field team lead or personnel performing oversight is to:

- Ensure the mark-out remains valid. (In certain states there are limits regarding the duration of time after the mark-out was applied to the ground surface work can be started or interrupted.) Additionally, the mark-outs must be maintained, documented, and in many cases refreshed periodically to be considered valid, this will be accomplished through calls to the one call center.
- Ensure intrusive activities are only performed within the safe boundaries of the mark-out as detailed in the One-Call Report.
- Halt all work if intrusive activities have resulted in discovery of an unmarked utility. Roux personnel shall notify the facility owner/operator and the one call center. All incidents such as this will be reported as per Roux Incident Investigation and Reporting Management Program.
- Halt all work if intrusive activities must take place outside of the safe boundaries of a mark-out and only proceed after new mark-outs are performed.
- Halt the intrusive activities and immediately consult with the PP if an unmarked utility is encountered.
- Completing any subsurface utility clearance incident reports that are necessary.

- If a utility cannot be found as marked Roux personnel shall notify the facility owner/operator directly or through the one call center. Following notification, the excavation may continue, unless otherwise specified in state law.
- Contractors/subcontractors must contact the one-call center to refresh the ticket when the excavation continues past the life of the ticket. Ticket life shall be dictated by state law however at a maximum ticket life shall not exceed 20 working days.

3.3 Stop Work Authority

Each Roux employee has Stop Work Authority which he or she will execute upon determination of any imminent safety hazard, emergency situation, or other potentially dangerous situation, such as hazardous weather conditions. This Stop Work Authority includes subsurface clearance issues such as the adequacy of a mark-out or identification during intrusive operations of an unexpected underground utility. Authorization to proceed with work will be issued by the PM/PP after such action is reviewed and resolved. The PM will initiate and execute all management notifications and contact with emergency facilities and personnel when this action is appropriate.

Appendix A - Definitions

Intrusive Work Activities

All activities such as digging or scraping the surface, including but not limited to, excavation, test pitting or trenching, soil vapor sampling or the installation of soil borings, soil vapor monitoring points and wells, or monitoring wells, and drilling within the basement slab of a recently demolished building.

Mark-out / Stake Out

The process of contracting with a competent and qualified company to confirm the presence or absence of underground utilities and structures. This process will clearly mark-out and delineate utilities that are identified so that intrusive work activities can be performed without causing disturbance or damage to the subsurface utilities and structures. After utility mark-outs are completed the soft digging will be completed prior to intrusive work.

Tolerance Zone

Defined as two feet on either side of the designated centerline of an identified utility, plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct backs and other non-cylindrical utilities) of that utility and two feet from the outside edge of any subsurface structure.

Structure

For the purpose of this program a structure is defined as any underground feature that may a present potential source(s) of energy such as, but not limited to, utility vaults, bunkers, piping, electrical boxes, wires, conduits, culverts, utility lines, underground tanks and ducts.

Soft Digging

The safest way to remove material from unknown obstructions or services is by using tools such as a vactor or air knife, non-mechanical tools, or hand tools. The methods are clean and non-evasive and used for uncovering and exposing buried services, excavating and for providing a quick method of soil removal from sensitive areas.

Verification

Exploratory test-hole dug with hand tools within the Tolerance Zone to expose and verify the location, type, size, direction-of-run and depth of a utility or subsurface structure. Vacuum excavation (soft dig) methods can further facilitate exposure of a subsurface utility and accurately provide its location and identification prior to intrusive work approaching the Tolerance Zone.

Appendix B - Example of Completed One Call Report

Example Completed One-Call Report

New York 811

Send To: C_EMAIL Seq No: 744

Ticket No: 133451007 ROUTINE

Start Date: 12/16/13 Time: 7:00 AM Lead Time: 20

State: NY County: QUEENS Place: QUEENS

Dig Street: 46TH AVE Address:

Nearest Intersecting Street: VERNON BLVD

Second Intersecting Street: 11TH ST

Type of Work: SOIL BORINGS

Type of Equipment: GEOPROBE

Work Being Done For: ROUX

In Street: X On Sidewalk: X Private Property: Other:

On Property Location if Private: Front: Rear: Side:

Location of Work: MARK THE ENTIRE NORTH SIDE OF THE STREET AND SIDEWALK OF:
46TH AVE BETWEEN VERNON BLVD AND 11TH STREET

Remarks:

Nad: Lat: Lon: Zone:

ExCoord NW Lat: 40.7475399 Lon: -73.9534811 SE Lat: 40.7457406 Lon: -73.9493680

Company : ZEBRA ENVIROMENTAL Best Time: 6AM-5PM

Contact Name: DAVID VINES Phone: (516)596-6300

Field Contact: DAVID VINES Phone: (516)596-6300

Caller Address: 30 N PROSPECT AVE Fax Phone: (516)596-4422

LYNBROOK, NY 11563

Email Address: david@zebraenv.com

Additional Operators Notified:

ATTNY01 AT&T CORPORATION (903)753-3145

CEQ CONSOLIDATED EDISON CO. OF N.Y (800)778-9140

MCINY01 MCI (800)289-3427

PANYNJ01 PORT AUTHORITY OF NY & NJ (201)595-4841

VZQ VERIZON COMMUNICATIONS (516)297-1602

Link to Map for C_EMAIL: <http://ny.itic.occinc.com/XGMZ-DF2-L23-YAY>

Original Call Date: 12/11/13 Time: 1:15 PM Op: webusr

IMPORTANT NOTE: YOU MUST CONTACT ANY OTHER UTILITIES DIRECTLY

Appendix C - Roux Subsurface Utility Clearance Checklist

Roux Subsurface Utility Clearance Checklist

**Date of Revision –
12/3/14**

Work site set-up and work execution

ACTIVITY	Yes	No	N/A	COMMENTS INCLUDING JUSTIFICATION IF RESPONSE IS NO OR NOT APPLICABLE
Daily site safety meeting conducted, SPSAs performed, JSAs reviewed, appropriate work permits obtained.				
HASP is available and reviewed by site workers / visitors.				
Subsurface Utility Clearance Procedure has been reviewed with all site workers.				
Work area secured; traffic control established as needed. Emergency shut-off switch located. Fire extinguishers / other safety equipment available as needed.				
Utility mark-outs (public / private) clear and visible. Provide Excavator's Stake-Out Reference Number / Request Date / Time.				
Tolerance zone work identified.				
Work execution plan reviewed and adhered to (ground disturbance methods, clearance depths, any special utility protection requirements, or any other execution requirements; especially for Tolerance Zone work).				
Verbal endorsement received from Roux PM for any required field deviations to work execution plan.				

Key reminders for execution:

The Subsurface Utility Clearance Protocol should be referenced to determine all requirements while executing subsurface work. The bullet points below are intended as general reminders only and should not be solely relied upon.

- Tolerance zone is defined as two feet plus half of the diameter or half of the greatest dimension (for elliptical sewers, duct banks and other non-cylindrical utilities) of a utility and two feet from the outside of any subsurface structure.
- Install Pre-Clearance exploratory test holes (e.g., hand-dug test holes or vacuum excavation) must be performed for the first five feet below land surface (BLS) at each location prior to conducting mechanized intrusive activities. The size of the pre-clearance exploratory test hole should be at a minimum twice the diameter of any downhole tool or boring device. (Note: Pre-clearance exploratory test holes should be defined in the SOW/proposal provided to the client to prevent project delays and to allow adequate time for PM and PP to evaluate alternative approaches for the project. Alternate approaches will need to be pre-approved by the OM.
- For excavations, all utilities need to be marked and then exposed by hand following the protocols in this program. Pre-clearing for excavations may be performed by the "moat" technique (i.e., soft

digging around the perimeter). In these cases, dig in small lifts (<12" for first five feet) using a dedicated spotter.) For Tolerance Zone work, unless otherwise agreed upon with the Utility Operator, work within the tolerance zone requires verification by means of hand-dug test holes to expose the utility. Once structures have been verified a minimum clearance of two feet must be maintained between the utility and any powered equipment.

Appendix D - Utility Verification/Site Walkthrough Record

Employee Name: _____

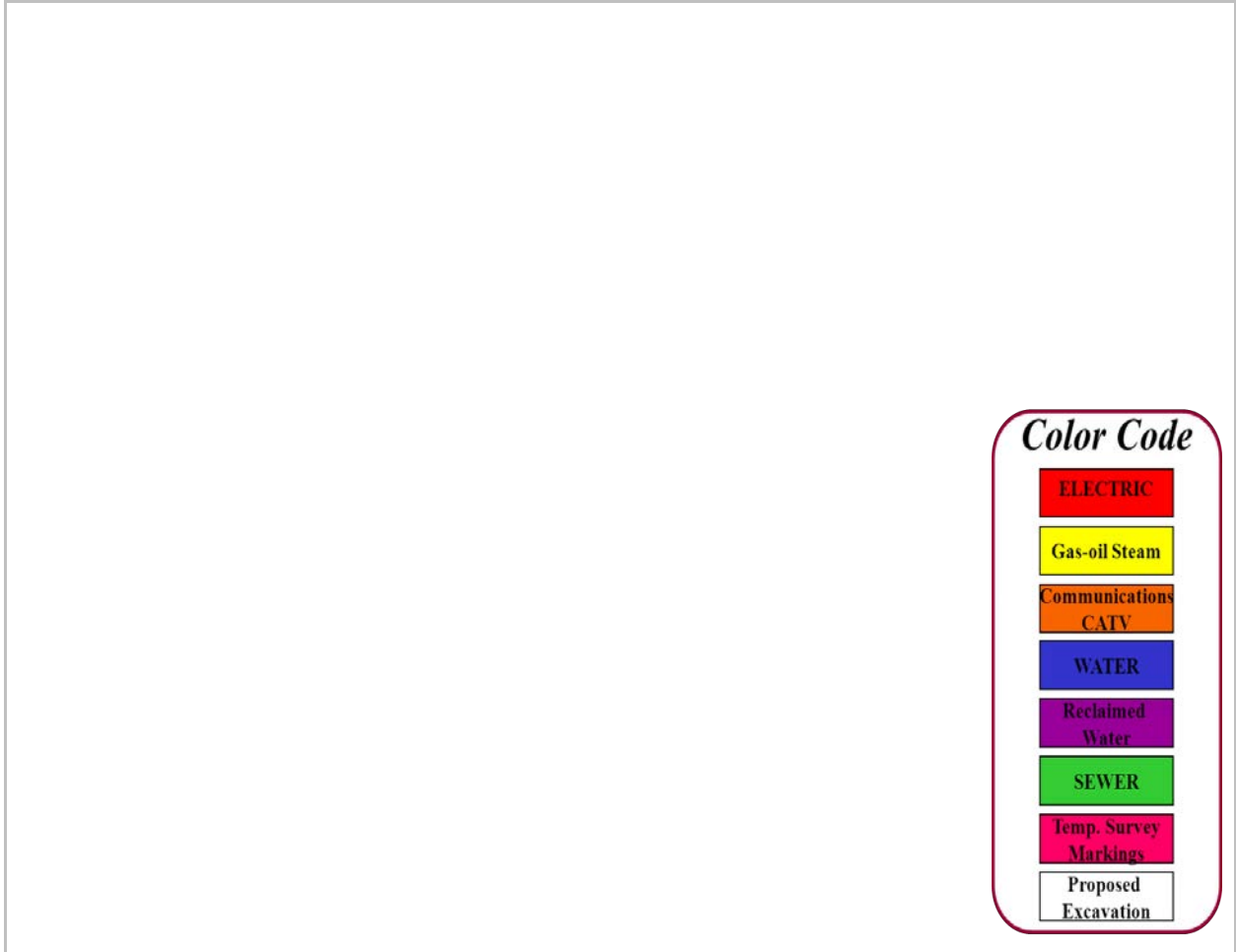
Date: _____

Instructions: For each utility suspected at the job site, indicate location on the job site, approximate burial depth, and means of detecting the utility. Leave blank if that utility is not believed to be present.

Utility	Description of Utility Location Identified Onsite	Approx. Depth (bls)	Method / Instrumentation used to determine Utility Location	Utility Owner Response (Date/Time)	Mark Out Indicates (Clear / Conflict)
Electrical Lines					
Gas Lines					
Pipelines					
Steam Lines					
Water Lines					
Sanitary and Stormwater Sewer lines					
Pressured Air-Lines					
Tank Vent Lines					
Fiber Optic Lines					
Underground Storage Tanks					
Phone Lines/ Other					

* bls - below land surface

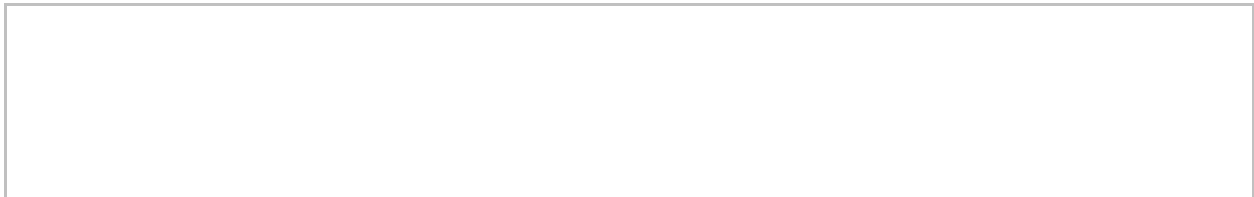
Site Sketch Showing Utilities:



Color Code

ELECTRIC
Gas-oil Steam
Communications CATV
WATER
Reclaimed Water
SEWER
Temp. Survey Markings
Proposed Excavation

Other Comments / Findings:



Completed by: _____

Signature: _____ Date: _____

APPENDIX B

Analytical Laboratory Reports



Date of Report: 11/07/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 37574
Pace Project: Chaquita Canyon Air
Pace Work Order: 2320820
Invoice ID: B486563

Enclosed are the results of analyses for samples received by the laboratory on 11/1/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be "BS", written over a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to be "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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AIR: CHAIN-OF-CUSTODY / Analytical Rec
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

2320820

Face Analytical
www.pacelabs.com
23-20820

Section A Required Client Information
Company: ROLUX
Address: 5150 E PCH STE 450
LONG BEACH, CA 90804
Email To: AMCGUIRE@ROUXINC.COM
Phone: 562-446-8624 Fax
Requested Due Date(TAT):

Section B Required Project Information
Report To: A. MCGUIRE
Copy To:
Purchase Order No.:
Project Name: CHIGUITA CANYON
Project Number: 2471.00011.003

Section C Invoice Information
Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)
Company Name: ROUX
Address: 5150 E PCH #400, LONG BEACH, CA 90804
Pace Quote Reference: 00148192
Pace Project Manager/Sales Rep: Brianna Schulte
Pace Profile #:

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Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State
Report Level: II, III, IV, Other

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	AIR SAMPLE ID	Media Code	Media Code	COLLECTED		Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method	Pace Lab ID	
				DATE	TIME							
1	ROUX01-2023 1031	26	6LC	10/31/23	15:19	11/23	-29	0677	03799	X		
2	ROUX02-2023 1031	26	6LC	10/31/23	14:45	11/23	-30	0615	07632	X		
3	ROUX03-2023 1031	26	6LC	10/31/23	13:05	11/23	-30	0489	06019	X		
4	ROUX04-2023 1031	26	6LC	10/31/23	14:31	11/23	-29	0681	05983	X		
5	ROUX05-2023 1031	-1	6LC	10/31/23	14:14	11/23 1021	-30	-6	27754	13898	X	
6	ROUX06-2023 1031	-2	6LC	10/31/23	13:05	11/23 1040	-30	-4	0170	03664	X	
7	ROUX07-2023 1031	-3	6LC	10/31/23	12:30	11/23 1048	-29	-6	0621	03802	X	
8	ROUX08-2023 1031	26	6LC	10/31/23	15:08	11/23	-29	0626	05482	X		
9	ROUX09-2023 1031	-4	6LC	10/31/23	13:30	11/23 1124	-30	-5	27742	13678	X	
10	ROUX10-2023 1031	-5	6LC	10/31/23	13:28	11/23 0955	-30	-4	27735	03886	X	
11	ROUX11-2023 1031	-6	6LC	10/31/23	13:58	11/23 1008	-29	-4	0795	03878	X	

CHK BY: [Signature] DISTRIBUTION: [Signature] SUB OUT:

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
[Signature]	11/1/23	11:50	Walter Smith	11-1-23	11:50	
Walter Smith	11-1-23	19:20	[Signature]	11/1/23	19:20	

SAMPLER NAME AND SIGNATURE
NAME of sampler:
SIGNATURE of SAMPLER: [Signature] DATE: signed (MM/DD/YY)

Temp in °C: _____
Refrigerated on Ice:
Custody Sealed Cooler:
Sampler sealed:

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev.01, 03Feb2010

PACE ANALYTICAL COOLER RECEIPT FORM Page 1 of 1
 Submission #: 23-20820

SHIPPING INFORMATION
 Fed Ex UPS GSO / GLS Hand Delivery
 Pace Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO Emissivity: _____ Container: SUMMA Thermometer ID: _____
 Temperature: (A) Room °C / (C) Temp °C Date/Time: 11/23 1920
 Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- SM										
QT EPA 503/603.3/MS1A										
QT EPA 515.1/515.1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
5oz EPA 548.1										
QT EPA 549.2										
QT EPA 8915M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	GL	A	A	A	A	A				

Comments:
 Sample Numbering Completed By: PRE Date/Time: 11/23 0815
 A = Actual ! C = Corrected

Rev 23 05/20/22
 (S:\MP\Doc\Word\Pack\LAB_DOC\FOR\ISS\ANRC\Rev 23)



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2320820-01	COC Number:	---	Receive Date:	11/01/2023 19:20
	Project Number:	---	Sampling Date:	11/01/2023 10:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231031	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320820-02	COC Number:	---	Receive Date:	11/01/2023 19:20
	Project Number:	---	Sampling Date:	11/01/2023 10:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231031	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320820-03	COC Number:	---	Receive Date:	11/01/2023 19:20
	Project Number:	---	Sampling Date:	11/01/2023 10:48
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231031	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320820-04	COC Number:	---	Receive Date:	11/01/2023 19:20
	Project Number:	---	Sampling Date:	11/01/2023 11:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231031	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320820-05	COC Number:	---	Receive Date:	11/01/2023 19:20
	Project Number:	---	Sampling Date:	11/01/2023 09:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231031	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320820-06	COC Number:	---	Receive Date:	11/01/2023 19:20
	Project Number:	---	Sampling Date:	11/01/2023 10:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231031-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2320820-01							
Client Sample Name:	ROUX05-20231031, 11/1/2023 10:21:00AM, Client							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.40	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.57	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.093	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.30	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.048	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.33	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320820-01	Client Sample Name: ROUX05-20231031, 11/1/2023 10:21:00AM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/02/23 08:43	11/03/23 04:19		BEP	MS-A2	1	B177406	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320820-02		Client Sample Name: ROUX06-20231031, 11/1/2023 10:40:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.45	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.14	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.042	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.093	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.050	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.8	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.44	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	99.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320820-02	Client Sample Name: ROUX06-20231031, 11/1/2023 10:40:00AM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/02/23 08:43	11/03/23 05:04		BEP	MS-A2	1	B177406	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320820-03		Client Sample Name: ROUX07-20231031, 11/1/2023 10:48:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.43	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.57	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.15	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.040	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.091	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.8	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.051	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.59	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.80	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	97.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320820-03	Client Sample Name: ROUX07-20231031, 11/1/2023 10:48:00AM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/02/23 08:43	11/03/23 05:50		BEP	MS-A2	1	B177406	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320820-04		Client Sample Name: ROUXB01-20231031, 11/1/2023 11:24:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.23	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.10	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.084	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.062	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.36	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.23	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.081	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.31	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	99.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320820-04	Client Sample Name: ROUXB01-20231031, 11/1/2023 11:24:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/02/23 08:43	11/03/23 06:36		BEP	MS-A2	1	B177406	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320820-05		Client Sample Name: ROUXB02-20231031, 11/1/2023 9:55:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.57	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.10	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.085	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.87	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.058	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.44	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.18	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.066	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.25	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	97.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320820-05	Client Sample Name: ROUXB02-20231031, 11/1/2023 9:55:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/02/23 08:43	11/03/23 07:21		BEP	MS-A2	1	B177406	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320820-06		Client Sample Name: ROUXB01-20231031-D, 11/1/2023 10:08:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.23	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.23	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.085	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.077	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.85	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.26	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.089	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.35	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	98.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320820-06	Client Sample Name: ROUXB01-20231031-D, 11/1/2023 10:08:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/02/23 08:43	11/03/23 08:07		BEP	MS-A2	1	B177406	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B177406							
Benzene	B177406-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B177406-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B177406-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B177406-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B177406-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B177406-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B177406-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B177406-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B177406-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B177406-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B177406-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B177406-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B177406-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B177406-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B177406-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B177406-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B177406-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B177406-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B177406-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B177406-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B177406-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B177406-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B177406-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B177406-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B177406-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B177406-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B177406-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B177406-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B177406-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B177406-BLK1	93.9	%	50 - 150 (LCL - UCL)			1

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1
1	B177406-BLK1	PB	EPA-TO-15-SIM	11/02/23	11/02/23 15:40	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177406											
Benzene	B177406-BS1	LCS	0.31082	0.31948	ug/m3	97.3		70 - 130			1
	B177406-BSD1	LCSD	0.31155	0.31948	ug/m3	97.5	0.2	70 - 130	30		2
Benzyl chloride	B177406-BS1	LCS	0.42055	0.51772	ug/m3	81.2		70 - 130		J	1
	B177406-BSD1	LCSD	0.55117	0.51772	ug/m3	106	26.9	70 - 130	30		2
Carbon tetrachloride	B177406-BS1	LCS	0.76905	0.62913	ug/m3	122		70 - 130			1
	B177406-BSD1	LCSD	0.77679	0.62913	ug/m3	123	1.0	70 - 130	30		2
Chlorobenzene	B177406-BS1	LCS	0.49428	0.46036	ug/m3	107		70 - 130			1
	B177406-BSD1	LCSD	0.51882	0.46036	ug/m3	113	4.8	70 - 130	30		2
Chloroform	B177406-BS1	LCS	0.54543	0.48825	ug/m3	112		70 - 130			1
	B177406-BSD1	LCSD	0.55055	0.48825	ug/m3	113	0.9	70 - 130	30		2
1,2-Dibromoethane	B177406-BS1	LCS	0.80630	0.76835	ug/m3	105		70 - 130			1
	B177406-BSD1	LCSD	0.85402	0.76835	ug/m3	111	5.7	70 - 130	30		2
1,2-Dichlorobenzene	B177406-BS1	LCS	0.58873	0.60124	ug/m3	97.9		70 - 130			1
	B177406-BSD1	LCSD	0.63172	0.60124	ug/m3	105	7.0	70 - 130	30		2
1,3-Dichlorobenzene	B177406-BS1	LCS	0.58392	0.60124	ug/m3	97.1		70 - 130			1
	B177406-BSD1	LCSD	0.66539	0.60124	ug/m3	111	13.0	70 - 130	30		2
1,4-Dichlorobenzene	B177406-BS1	LCS	0.57382	0.60124	ug/m3	95.4		70 - 130			1
	B177406-BSD1	LCSD	0.64657	0.60124	ug/m3	108	11.9	70 - 130	30		2
1,1-Dichloroethane	B177406-BS1	LCS	0.42178	0.40474	ug/m3	104		70 - 130			1
	B177406-BSD1	LCSD	0.41899	0.40474	ug/m3	104	0.7	70 - 130	30		2
1,2-Dichloroethane	B177406-BS1	LCS	0.47035	0.40474	ug/m3	116		70 - 130			1
	B177406-BSD1	LCSD	0.48621	0.40474	ug/m3	120	3.3	70 - 130	30		2
1,1-Dichloroethene	B177406-BS1	LCS	0.37861	0.39649	ug/m3	95.5		70 - 130			1
	B177406-BSD1	LCSD	0.38508	0.39649	ug/m3	97.1	1.7	70 - 130	30		2
cis-1,2-Dichloroethene	B177406-BS1	LCS	0.39249	0.39649	ug/m3	99.0		70 - 130			1
	B177406-BSD1	LCSD	0.39768	0.39649	ug/m3	100	1.3	70 - 130	30		2
Tetrachloroethene	B177406-BS1	LCS	0.78067	0.67825	ug/m3	115		70 - 130			1
	B177406-BSD1	LCSD	0.79390	0.67825	ug/m3	117	1.7	70 - 130	30		2
Toluene	B177406-BS1	LCS	0.36810	0.37684	ug/m3	97.7		70 - 130			1
	B177406-BSD1	LCSD	0.37628	0.37684	ug/m3	99.8	2.2	70 - 130	30		2
1,1,1-Trichloroethane	B177406-BS1	LCS	0.64012	0.54562	ug/m3	117		70 - 130			1
	B177406-BSD1	LCSD	0.65594	0.54562	ug/m3	120	2.4	70 - 130	30		2
1,1,2-Trichloroethane	B177406-BS1	LCS	0.59134	0.54562	ug/m3	108		70 - 130			1
	B177406-BSD1	LCSD	0.61339	0.54562	ug/m3	112	3.7	70 - 130	30		2
Trichloroethene	B177406-BS1	LCS	0.58300	0.53737	ug/m3	108		70 - 130			1
	B177406-BSD1	LCSD	0.60788	0.53737	ug/m3	113	4.2	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177406											
Vinyl chloride	B177406-BS1	LCS	0.25602	0.25562	ug/m3	100		70 - 130			1
	B177406-BSD1	LCSD	0.25355	0.25562	ug/m3	99.2	1.0	70 - 130		30	2
p- & m-Xylenes	B177406-BS1	LCS	0.86938	0.86843	ug/m3	100		70 - 130			1
	B177406-BSD1	LCSD	0.89187	0.86843	ug/m3	103	2.6	70 - 130		30	2
o-Xylene	B177406-BS1	LCS	0.44047	0.43421	ug/m3	101		70 - 130			1
	B177406-BSD1	LCSD	0.45167	0.43421	ug/m3	104	2.5	70 - 130		30	2
Total Xylenes	B177406-BS1	LCS	1.3098	1.3026	ug/m3	101		70 - 130			1
	B177406-BSD1	LCSD	1.3435	1.3026	ug/m3	103	2.5	70 - 130		30	2
4-Bromofluorobenzene (Surrogate)	B177406-BS1	LCS	3.41	3.58	ug/m3	95.3		50 - 150			1
	B177406-BSD1	LCSD	3.54	3.58	ug/m3	98.9	3.7	50 - 150			2

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 Long Beach, CA 90804

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 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
1	B177406-BS1	LCS	EPA-TO-15-SIM	11/02/23	11/02/23 14:25	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/07/2023 14:32
 Project: Chaquita Canyon Air
 Project Number: 37574
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1
2	B177406-BSD1	LCSD	EPA-TO-15-SIM	11/02/23	11/02/23 15:05	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/07/2023 14:32
Project: Chaquita Canyon Air
Project Number: 37574
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 11/08/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2320983
Invoice ID: B486578

Enclosed are the results of analyses for samples received by the laboratory on 11/3/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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WSS 11-3-23
1A 4 Boxes



2320983

AIR: CHAIN-OF-CUSTODY / Analytical Reques
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurat.



23-20983

Section A Required Client Information Company: ROUX Address: 5150 E PCH, STE 450 LONG BEACH, CA 90804 Email To: AMCGUIRE@ROUXINC.COM Phone: 562-448-8824 Fax: Requested Due Date(TAT):	Section B Required Project Information Report To: A. MCGUIRE Copy To: Purchase Order No: Project Name: CHIQUITA CANYON Project Number: 2471.0001L003	Section C Invoice Information Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM) Company Name: ROUX Address: 5150 E PCH #450, LONG BEACH, CA 90804 Pace Quote Reference: 00148102 Pace Project Manager/Sales Rep: Brianna Schutte Pace Profile #
Page: 1 of 1		
Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other		
Location of Sampling by State: _____		Reporting Units ug/m ³ ___ mg/m ³ ___ PPMV ___ PPMV ___ Other: _____
Report Level: I ___ II ___ III ___ IV ___ Other ___		

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE 8LC Tedlar Bag TB 1 Liter Summa Can 8LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PNB	MEDIA CODE 8LC	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: <i>(Diagonal lines)</i>	Pace Lab ID
				COMPOSITE START		COMPOSITE -							
				DATE	TIME	DATE	TIME						
1	ROUX01-2023	-1	8LC	10/31/23	1519	11/1/23	1220	-29	-4	0677	03799	X	
2	ROUX02-2023	-2	8LC	10/31/23	1445	11/1/23	1204	-30	-5	0615	07632	X	
3	ROUX03-2023	-3	8LC	10/31/23	1505	11/1/23	1212	-30	-5	0489	06019	X	
4	ROUX04-2023	-4	8LC	10/31/23	1431	11/1/23	1200	-29	-2	0681	05983	X	
5	ROUX05-2023 PB		8LC									X	
6	ROUX06-2023 PG		8LC									X	
7	ROUX07-2023 PG		8LC									X	
8	ROUX08-2023 PB		8LC									X	
9	ROUX09-2023 PG		8LC									X	
10	ROUX02-2023 PG		8LC									X	
11	ROUX00-2023 PB		8LC									X	
12	ROUX03-2023 1081-D	-5	8LC	10/31/23	1508	11/1/23	1210	-29	-5	0626	05982	X	

WORK BY: MPI
 DISTRIBUTION: []
 SUB OUT: []

Comments :				RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS							
				Peter Smith		11/3/23	12:55	Walter Smith		11-3-23	12:55	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples intact	Y/N	Y/N	Y/N	Y/N
				Walter Smith		11-3-23	16:00	PACG		11/3/23	16:00								

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Peter Grimmer
 SIGNATURE of SAMPLER: *Peter Grimmer*
 DATE Signed (MM/DD/YY): 11/3/23

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-20983</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>11/3/23</u> <u>1600</u> Analyst Initial <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/08.3/081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 545.3										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>16L</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>				

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 11/3/23 1600
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2320983-01	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/01/2023 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-2023	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320983-02	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/01/2023 12:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-2023	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320983-03	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/01/2023 12:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-2023	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320983-04	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/01/2023 12:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-2023	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320983-05	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/01/2023 12:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231031-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320983-01		Client Sample Name: ROUX01-2023, 11/1/2023 12:20:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.20	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.54	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.080	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.035	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.36	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.62	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.11	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.038	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.15	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320983-01	Client Sample Name: ROUX01-2023, 11/1/2023 12:20:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/03/23	23:20	BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320983-02		Client Sample Name: ROUX02-2023, 11/1/2023 12:04:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.31	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.098	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.083	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.54	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.82	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.37	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.49	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320983-02	Client Sample Name: ROUX02-2023, 11/1/2023 12:04:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 00:06		BEP	MS-A2	1	B177523	EPA TO-15

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320983-03		Client Sample Name: ROUX03-2023, 11/1/2023 12:12:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.090	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.082	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.34	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.087	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	2.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.56	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	96.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/08/2023 7:10
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320983-03	Client Sample Name: ROUX03-2023, 11/1/2023 12:12:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 00:51		BEP	MS-A2	1	B177523	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320983-04		Client Sample Name: ROUX04-2023, 11/1/2023 12:00:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.37	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.58	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.089	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.045	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.61	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.89	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.52	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.70	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320983-04	Client Sample Name: ROUX04-2023, 11/1/2023 12:00:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 01:37		BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320983-05		Client Sample Name: ROUX03-20231031-D, 11/1/2023 12:10:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.47	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.090	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.034	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.19	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.93	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.68	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.93	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/08/2023 7:10
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320983-05	Client Sample Name: ROUX03-20231031-D, 11/1/2023 12:10:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 02:23		BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number



Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B177523							
Benzene	B177523-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B177523-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B177523-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B177523-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B177523-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B177523-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B177523-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B177523-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B177523-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B177523-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B177523-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B177523-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B177523-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B177523-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B177523-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B177523-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B177523-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B177523-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B177523-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B177523-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B177523-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B177523-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B177523-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B177523-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B177523-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B177523-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B177523-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B177523-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B177523-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B177523-BLK1	83.1	%	50 - 150 (LCL - UCL)			1

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Long Beach, CA 90804

Reported: 11/08/2023 7:10
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177523											
Benzene	B177523-BS1	LCS	0.31459	0.31948	ug/m3	98.5		70 - 130			1
	B177523-BSD1	LCSD	0.31861	0.31948	ug/m3	99.7	1.3	70 - 130	30		2
Benzyl chloride	B177523-BS1	LCS	0.37069	0.51772	ug/m3	71.6		70 - 130		J	1
	B177523-BSD1	LCSD	0.42821	0.51772	ug/m3	82.7	14.4	70 - 130	30	J	2
Carbon tetrachloride	B177523-BS1	LCS	0.74741	0.62913	ug/m3	119		70 - 130			1
	B177523-BSD1	LCSD	0.74382	0.62913	ug/m3	118	0.5	70 - 130	30		2
Chlorobenzene	B177523-BS1	LCS	0.50515	0.46036	ug/m3	110		70 - 130			1
	B177523-BSD1	LCSD	0.51044	0.46036	ug/m3	111	1.0	70 - 130	30		2
Chloroform	B177523-BS1	LCS	0.54201	0.48825	ug/m3	111		70 - 130			1
	B177523-BSD1	LCSD	0.54572	0.48825	ug/m3	112	0.7	70 - 130	30		2
1,2-Dibromoethane	B177523-BS1	LCS	0.82882	0.76835	ug/m3	108		70 - 130			1
	B177523-BSD1	LCSD	0.84787	0.76835	ug/m3	110	2.3	70 - 130	30		2
1,2-Dichlorobenzene	B177523-BS1	LCS	0.56270	0.60124	ug/m3	93.6		70 - 130			1
	B177523-BSD1	LCSD	0.59288	0.60124	ug/m3	98.6	5.2	70 - 130	30		2
1,3-Dichlorobenzene	B177523-BS1	LCS	0.58079	0.60124	ug/m3	96.6		70 - 130			1
	B177523-BSD1	LCSD	0.61073	0.60124	ug/m3	102	5.0	70 - 130	30		2
1,4-Dichlorobenzene	B177523-BS1	LCS	0.55662	0.60124	ug/m3	92.6		70 - 130			1
	B177523-BSD1	LCSD	0.61001	0.60124	ug/m3	101	9.2	70 - 130	30		2
1,1-Dichloroethane	B177523-BS1	LCS	0.43319	0.40474	ug/m3	107		70 - 130			1
	B177523-BSD1	LCSD	0.42834	0.40474	ug/m3	106	1.1	70 - 130	30		2
1,2-Dichloroethane	B177523-BS1	LCS	0.46116	0.40474	ug/m3	114		70 - 130			1
	B177523-BSD1	LCSD	0.46327	0.40474	ug/m3	114	0.5	70 - 130	30		2
1,1-Dichloroethene	B177523-BS1	LCS	0.39883	0.39649	ug/m3	101		70 - 130			1
	B177523-BSD1	LCSD	0.39614	0.39649	ug/m3	99.9	0.7	70 - 130	30		2
cis-1,2-Dichloroethene	B177523-BS1	LCS	0.39471	0.39649	ug/m3	99.6		70 - 130			1
	B177523-BSD1	LCSD	0.40173	0.39649	ug/m3	101	1.8	70 - 130	30		2
Tetrachloroethene	B177523-BS1	LCS	0.79769	0.67825	ug/m3	118		70 - 130			1
	B177523-BSD1	LCSD	0.80963	0.67825	ug/m3	119	1.5	70 - 130	30		2
Toluene	B177523-BS1	LCS	0.36806	0.37684	ug/m3	97.7		70 - 130			1
	B177523-BSD1	LCSD	0.36965	0.37684	ug/m3	98.1	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B177523-BS1	LCS	0.63123	0.54562	ug/m3	116		70 - 130			1
	B177523-BSD1	LCSD	0.62599	0.54562	ug/m3	115	0.8	70 - 130	30		2
1,1,2-Trichloroethane	B177523-BS1	LCS	0.63150	0.54562	ug/m3	116		70 - 130			1
	B177523-BSD1	LCSD	0.61584	0.54562	ug/m3	113	2.5	70 - 130	30		2
Trichloroethene	B177523-BS1	LCS	0.60890	0.53737	ug/m3	113		70 - 130			1
	B177523-BSD1	LCSD	0.61621	0.53737	ug/m3	115	1.2	70 - 130	30		2

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177523											
Vinyl chloride	B177523-BS1	LCS	0.26070	0.25562	ug/m3	102		70 - 130			1
	B177523-BSD1	LCSD	0.25981	0.25562	ug/m3	102	0.3	70 - 130	30		2
p- & m-Xylenes	B177523-BS1	LCS	0.87155	0.86843	ug/m3	100		70 - 130			1
	B177523-BSD1	LCSD	0.87073	0.86843	ug/m3	100	0.1	70 - 130	30		2
o-Xylene	B177523-BS1	LCS	0.44646	0.43421	ug/m3	103		70 - 130			1
	B177523-BSD1	LCSD	0.43942	0.43421	ug/m3	101	1.6	70 - 130	30		2
Total Xylenes	B177523-BS1	LCS	1.3180	1.3026	ug/m3	101		70 - 130			1
	B177523-BSD1	LCSD	1.3101	1.3026	ug/m3	101	0.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B177523-BS1	LCS	3.32	3.58	ug/m3	92.6		50 - 150			1
	B177523-BSD1	LCSD	3.35	3.58	ug/m3	93.6	1.1	50 - 150			2

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Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1

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Reported: 11/08/2023 7:10
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/08/2023 7:10
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 11/08/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2320984
Invoice ID: B486579

Enclosed are the results of analyses for samples received by the laboratory on 11/3/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2320984

AIR: CHAIN-OF-CUSTODY / Analytical Reques
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurat



23-20984

Section A Required Client Information Company: ROUX Address: 5150 E PCH, STE 450 LONG BEACH, CA 90804 Email To: AMCGUIRE@ROUXINC.COM Phone: 562-448-8624 Fax: Requested Due Date/TAT:		Section B Required Project Information Report To: A. MCGUIRE Copy To: Purchase Order No.: Project Name: CHIQUITA CANYON Project Number: 2471.001L003		Section C Invoice Information Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM) Company Name: ROUX Address: 5150 E PCH #450, LONG BEACH, CA 90804 Pace Quote Reference: 00148192 Pace Project Manager/Sales Rep: Brianna Schulte Pace Profile #:		Page: 1 of 1
Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other						
Location of Sampling by State _____						
Report Level: II ___ III ___ IV ___ Other ___						

ITEM #	Section D Required Client Information			COLLECTED				Summa Can Number	Flow Control Number	Method:	Pace Lab ID
	AIR SAMPLE ID			COMPOSITE START							
	Sample IDs MUST BE UNIQUE	Media Code	PG Reading (Client only)	DATE	TIME	DATE	TIME				
1	ROUX01-2023	1102	-1	11/2/23	1453	11/3/23	1215	-30-4	0740	03795	X
2	ROUX02-2023	1102	-2	11/2/23	1426	11/3/23	1054	-29-5	0786	05274	X
3	ROUX03-2023	1102	-3	11/2/23	1437	11/3/23	1208	-29-5	2774	10013	X
4	ROUX04-2023	1102	-4	11/2/23	1417	11/3/23	1200	-29-5	0232	07629	X
5	ROUX05-2023	1102	-5	11/2/23	1401	11/3/23	1016	-30-5	37518	03805	X
6	ROUX06-2023	1102	-6	11/2/23	1245	11/3/23	1038	-30-5	0488	05985	X
7	ROUX07-2023	1102	-7	11/2/23	1228	11/3/23	1028	-30-5	2759	03792	X
8	ROUX01	-2023 1102	-8	11/2/23	1452	11/3/23	1216	-30-5	08020	03874	X
9	ROUXB01-2023	1102	-9	11/2/23	1347	11/3/23	1003	-30-5	08030	03890	X
10	ROUXB02-2023	1102	-10	11/2/23	1307	11/3/23	0945	-30-6	0680	13896	X
11	ROUXB02	-2023 1102	-11	11/2/23	1308	11/3/23	0942	-29-3	08070	03803	X

BY DISTRIBUTION
MPI
SUB OUT

Comments:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	11/3/23	1255	Water Smith	11/3/23	12:55	Temp in °C Received on Job Custody Sealed Cooler Samples intact
	Water Smith	11-3-23	1600	Pace	11/3/23	1600	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Audrey Clare
SIGNATURE OF SAMPLER: *[Signature]*
DATE Signed (MM/DD/YY): 11/03/2023

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 2	
Submission #: <u>23-20984</u>					
SHIPPING INFORMATION			SHIPPING CONTAINER		FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	GSO / GLS <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	Ice Chest <input type="checkbox"/>	None <input type="checkbox"/>
Pace Lab Field Service <input checked="" type="checkbox"/>		Other (Specify) _____		Box <input checked="" type="checkbox"/>	Other (Specify) _____
					YES <input type="checkbox"/>
					NO <input checked="" type="checkbox"/>
					W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>			
All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input type="checkbox"/> No <input type="checkbox"/>	
COC Received		Emissivity: _____ Container: <u>Anna</u> Thermometer ID: _____		Date/Time <u>11/3/03 1600</u>	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>RPE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / Box / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / Box / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PhA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 594										
QT EPA 503/603.3/5031A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 5015M										
QT EPA 5270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>6L</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>

Comments: _____
 Sample Numbering Completed By: RPE Date/Time: 11/3/03 1605 Rev 23 05/20/22
 A = Actual / C = Corrected [C:\WP\Doc\Word\Ref\CLAB_DOC\CF-ORIG\SI\ANKR\CF-03]

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 2 Of 2	
Submission #: <u>23-20984</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time: <u>11/3/23 1600</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Initial: <u>RE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/508.3/50831A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8915M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: RE Date/Time: 11/3/23 1625
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2320984-01	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 12:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2320984-02	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 10:54
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2320984-03	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 12:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2320984-04	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 12:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2320984-05	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 10:16
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2320984-06	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 10:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2320984-07	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 10:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2320984-08	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 12:16
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231102-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320984-09	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 10:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320984-10	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 09:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231102	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2320984-11	COC Number:	---	Receive Date:	11/03/2023 16:00
	Project Number:	---	Sampling Date:	11/03/2023 09:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231102-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2320984-01							
Client Sample Name:	ROUX01-20231102, 11/3/2023 12:15:00PM, Client							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.99	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.58	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.040	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.083	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.74	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.34	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.47	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-01	Client Sample Name: ROUX01-20231102, 11/3/2023 12:15:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23	03:09	BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-02		Client Sample Name: ROUX02-20231102, 11/3/2023 10:54:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.053	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.089	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.75	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.047	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.69	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.24	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.93	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-02	Client Sample Name: ROUX02-20231102, 11/3/2023 10:54:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23	03:54	BEP	MS-A2	1	B177523	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-03		Client Sample Name: ROUX03-20231102, 11/3/2023 12:08:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.60	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.58	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.049	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.089	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.76	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.043	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.35	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-03	Client Sample Name: ROUX03-20231102, 11/3/2023 12:08:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 04:40		BEP	MS-A2	1	B177523	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-04		Client Sample Name: ROUX04-20231102, 11/3/2023 12:00:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.67	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.11	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.092	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.2	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.32	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.055	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.38	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-04	Client Sample Name: ROUX04-20231102, 11/3/2023 12:00:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 05:26		BEP	MS-A2	1	B177523	EPA TO-15

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-05		Client Sample Name: ROUX05-20231102, 11/3/2023 10:16:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.54	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.57	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.033	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.39	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.63	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.052	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	2.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.45	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	2.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	96.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-05	Client Sample Name: ROUX05-20231102, 11/3/2023 10:16:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 06:11		BEP	MS-A2	1	B177523	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2320984-06		Client Sample Name:	ROUX06-20231102, 11/3/2023 10:38:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.70	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.17	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.051	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.86	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.045	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.94	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	108	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-06	Client Sample Name: ROUX06-20231102, 11/3/2023 10:38:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 06:57		BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2320984-07		Client Sample Name:	ROUX07-20231102, 11/3/2023 10:28:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.27	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.038	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.084	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	8.1	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.040	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.63	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.23	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.86	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-07	Client Sample Name: ROUX07-20231102, 11/3/2023 10:28:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 07:43		BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-08		Client Sample Name: ROUX01-20231102-D, 11/3/2023 12:16:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.96	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.094	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.080	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.042	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.60	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.30	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.42	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-08	Client Sample Name: ROUX01-20231102-D, 11/3/2023 12:16:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 08:28		BEP	MS-A2	1	B177523	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-09		Client Sample Name: ROUXB01-20231102, 11/3/2023 10:03:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.36	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.57	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.081	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.043	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.68	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.39	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.53	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-09	Client Sample Name: ROUXB01-20231102, 11/3/2023 10:03:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 09:14		BEP	MS-A2	1	B177523	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-10		Client Sample Name: ROUXB02-20231102, 11/3/2023 9:45:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.48	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.58	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.22	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.049	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.089	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.60	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.18	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.037	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.91	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.63	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.22	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.85	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-10	Client Sample Name: ROUXB02-20231102, 11/3/2023 9:45:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23 10:00		BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2320984-11		Client Sample Name: ROUXB02-20231102-D, 11/3/2023 9:42:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.47	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.22	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.047	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.089	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.62	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.18	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.94	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.62	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.84	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2320984-11	Client Sample Name: ROUXB02-20231102-D, 11/3/2023 9:42:00AM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/03/23 17:02	11/04/23	10:45	BEP	MS-A2	1	B177523	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B177523							
Benzene	B177523-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B177523-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B177523-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B177523-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B177523-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B177523-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B177523-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B177523-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B177523-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B177523-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B177523-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B177523-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B177523-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B177523-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B177523-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B177523-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B177523-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B177523-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B177523-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B177523-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B177523-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B177523-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B177523-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B177523-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B177523-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B177523-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B177523-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B177523-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B177523-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B177523-BLK1	83.1	%	50 - 150 (LCL - UCL)			1

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Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1
1	B177523-BLK1	PB	EPA-TO-15-SIM	11/03/23	11/03/23 17:20	BEP	MS-A2	1

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 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177523											
Benzene	B177523-BS1	LCS	0.31459	0.31948	ug/m3	98.5		70 - 130			1
	B177523-BSD1	LCSD	0.31861	0.31948	ug/m3	99.7	1.3	70 - 130	30		2
Benzyl chloride	B177523-BS1	LCS	0.37069	0.51772	ug/m3	71.6		70 - 130		J	1
	B177523-BSD1	LCSD	0.42821	0.51772	ug/m3	82.7	14.4	70 - 130	30	J	2
Carbon tetrachloride	B177523-BS1	LCS	0.74741	0.62913	ug/m3	119		70 - 130			1
	B177523-BSD1	LCSD	0.74382	0.62913	ug/m3	118	0.5	70 - 130	30		2
Chlorobenzene	B177523-BS1	LCS	0.50515	0.46036	ug/m3	110		70 - 130			1
	B177523-BSD1	LCSD	0.51044	0.46036	ug/m3	111	1.0	70 - 130	30		2
Chloroform	B177523-BS1	LCS	0.54201	0.48825	ug/m3	111		70 - 130			1
	B177523-BSD1	LCSD	0.54572	0.48825	ug/m3	112	0.7	70 - 130	30		2
1,2-Dibromoethane	B177523-BS1	LCS	0.82882	0.76835	ug/m3	108		70 - 130			1
	B177523-BSD1	LCSD	0.84787	0.76835	ug/m3	110	2.3	70 - 130	30		2
1,2-Dichlorobenzene	B177523-BS1	LCS	0.56270	0.60124	ug/m3	93.6		70 - 130			1
	B177523-BSD1	LCSD	0.59288	0.60124	ug/m3	98.6	5.2	70 - 130	30		2
1,3-Dichlorobenzene	B177523-BS1	LCS	0.58079	0.60124	ug/m3	96.6		70 - 130			1
	B177523-BSD1	LCSD	0.61073	0.60124	ug/m3	102	5.0	70 - 130	30		2
1,4-Dichlorobenzene	B177523-BS1	LCS	0.55662	0.60124	ug/m3	92.6		70 - 130			1
	B177523-BSD1	LCSD	0.61001	0.60124	ug/m3	101	9.2	70 - 130	30		2
1,1-Dichloroethane	B177523-BS1	LCS	0.43319	0.40474	ug/m3	107		70 - 130			1
	B177523-BSD1	LCSD	0.42834	0.40474	ug/m3	106	1.1	70 - 130	30		2
1,2-Dichloroethane	B177523-BS1	LCS	0.46116	0.40474	ug/m3	114		70 - 130			1
	B177523-BSD1	LCSD	0.46327	0.40474	ug/m3	114	0.5	70 - 130	30		2
1,1-Dichloroethene	B177523-BS1	LCS	0.39883	0.39649	ug/m3	101		70 - 130			1
	B177523-BSD1	LCSD	0.39614	0.39649	ug/m3	99.9	0.7	70 - 130	30		2
cis-1,2-Dichloroethene	B177523-BS1	LCS	0.39471	0.39649	ug/m3	99.6		70 - 130			1
	B177523-BSD1	LCSD	0.40173	0.39649	ug/m3	101	1.8	70 - 130	30		2
Tetrachloroethene	B177523-BS1	LCS	0.79769	0.67825	ug/m3	118		70 - 130			1
	B177523-BSD1	LCSD	0.80963	0.67825	ug/m3	119	1.5	70 - 130	30		2
Toluene	B177523-BS1	LCS	0.36806	0.37684	ug/m3	97.7		70 - 130			1
	B177523-BSD1	LCSD	0.36965	0.37684	ug/m3	98.1	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B177523-BS1	LCS	0.63123	0.54562	ug/m3	116		70 - 130			1
	B177523-BSD1	LCSD	0.62599	0.54562	ug/m3	115	0.8	70 - 130	30		2
1,1,2-Trichloroethane	B177523-BS1	LCS	0.63150	0.54562	ug/m3	116		70 - 130			1
	B177523-BSD1	LCSD	0.61584	0.54562	ug/m3	113	2.5	70 - 130	30		2
Trichloroethene	B177523-BS1	LCS	0.60890	0.53737	ug/m3	113		70 - 130			1
	B177523-BSD1	LCSD	0.61621	0.53737	ug/m3	115	1.2	70 - 130	30		2

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Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177523											
Vinyl chloride	B177523-BS1	LCS	0.26070	0.25562	ug/m3	102		70 - 130			1
	B177523-BSD1	LCSD	0.25981	0.25562	ug/m3	102	0.3	70 - 130	30		2
p- & m-Xylenes	B177523-BS1	LCS	0.87155	0.86843	ug/m3	100		70 - 130			1
	B177523-BSD1	LCSD	0.87073	0.86843	ug/m3	100	0.1	70 - 130	30		2
o-Xylene	B177523-BS1	LCS	0.44646	0.43421	ug/m3	103		70 - 130			1
	B177523-BSD1	LCSD	0.43942	0.43421	ug/m3	101	1.6	70 - 130	30		2
Total Xylenes	B177523-BS1	LCS	1.3180	1.3026	ug/m3	101		70 - 130			1
	B177523-BSD1	LCSD	1.3101	1.3026	ug/m3	101	0.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B177523-BS1	LCS	3.32	3.58	ug/m3	92.6		50 - 150			1
	B177523-BSD1	LCSD	3.35	3.58	ug/m3	93.6	1.1	50 - 150			2

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Reported: 11/08/2023 7:11
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Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
1	B177523-BS1	LCS	EPA-TO-15-SIM	11/03/23	11/03/23 16:00	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 7:11
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1
2	B177523-BSD1	LCSD	EPA-TO-15-SIM	11/03/23	11/03/23 16:42	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/08/2023 7:11
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 11/09/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2321097
Invoice ID: B486777

Enclosed are the results of analyses for samples received by the laboratory on 11/7/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is written over a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

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WSS 11-7-23
3A 6



AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be com

23-21097



Section A Required Client Information: Company: ROLUX Address: 5150 E PCH, STE 450 LONG BEACH, CA 90804 Email To: AMCQUIRE@ROLUX.COM Phone: 562-446-8524 Fax Requested Due Date(TAT):		Section B Required Project Information: Report To: A. MCQUIRE Copy To: Purchase Order No.: Project Name: CHICUITA CANYON Project Number: 2471.0001L003		Section C Invoice Information: Attention: ROLUX ACCOUNTS PAYABLE (ROLUXA@ROLUX.COM) Company Name: ROLUX Address: 5150 E PCH #450, LONG BEACH, CA 90804 Pace Quote Reference: 00148150 Pace Project Manager/Sales Rep: Brianna Schulte Pace Profile #		Page: 1 of 1						
Section D Required Client Information AIR SAMPLE ID Sample ID# MUST BE UNIQUE		COLLECTED DATE TIME DATE TIME 11/6/23 14:06 11/7/23 12:12 11/6/23 14:06 11/7/23 11:33 11/6/23 14:16 11/7/23 11:42 11/6/23 13:53 11/7/23 12:37 11/6/23 13:36 11/7/23 10:02 11/6/23 12:45 11/7/23 10:34 11/6/23 12:24 11/7/23 11:17 11/6/23 13:54 11/7/23 12:30 11/6/23 13:21 11/7/23 09:43 11/6/23 12:57 11/7/23 10:44 11/6/23 13:22 11/7/23 09:44		RELINQUISHED BY / AFFILIATION WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6 WSS 3A 6		DATE 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23 11-7-23		TIME 13:06 11:06 11:06 11:06 11:06 11:06 11:06 11:06 11:06 11:06 11:06 11:06				
ITEM #	1	2	3	4	5	6	7	8	9	10	11	12
Media Code	1	2	3	4	5	6	7	8	9	10	11	12
Summa Can Number	08343	06014	27747	37508	43525	08028	08347	37519	01603	07477	07610	
Flow Control Number	13685	06014	13894	03659	03798	17515	07631	13602	03794	05984	05979	
Canister Pressure (Initial Field - psig)	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	
Canister Pressure (Final Field - psig)	-6	-5	-5	-5	-4	-4	-6	-6	-3	-4	-5	
Temp in °C												
Received on Ice	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Custody Sealed Cooler	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Samples Intact	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

CHK BY: [Signature]
DISTRIBUTION
SUB OUT

SAMPLER NAME AND SIGNATURE
 PREP NAME: J. SAMPLER
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED (MM/DD/YYYY): 11-7-23

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>2</u>	
Submission #: <u>23-21097</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input checked="" type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____		Date/Time <u>11/2/23</u> <u>14:00</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>PPB</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / Box / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / Box / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608 J0051A										
QT EPA 515 J0151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 5015M										
QT EPA 527C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: PPB Date/Time: 11/2/23 17:10
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>	
Submission #: <u>23-21097</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input checked="" type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals		Ice Chest <input type="checkbox"/>		Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____	
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>			
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>11/7/23</u> <u>1100</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>PR</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/505 3/8281A										
QT EPA 515.18/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8170C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A									

Comments: _____
 Sample Numbering Completed By: PR Date/Time: 11/7/23 1100
 A = Actual / C = Corrected

Rev 23 04/20/22
 D:\RFPDoc\MedPerfect\LAB_DOC\9708107\SAM\NIC\rev 20



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2321097-01	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 12:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-02	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 11:33
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-03	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 11:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-04	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 12:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-05	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 10:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-06	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 10:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-07	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 11:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2321097-08	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 12:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231106-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-09	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 09:43
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-10	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 10:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231106	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321097-11	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/07/2023 09:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231106-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-01		Client Sample Name: ROUX01-20231106, 11/7/2023 12:12:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.56	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.034	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.080	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.52	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.035	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.56	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.33	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.45	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-01	Client Sample Name: ROUX01-20231106, 11/7/2023 12:12:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/08/23 08:05	11/08/23 19:04	BEP	MS-A2	1	B177972 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-02		Client Sample Name: ROUX02-20231106, 11/7/2023 11:33:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.59	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.041	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.080	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.69	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.32	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.77	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.53	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.19	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.72	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-02	Client Sample Name: ROUX02-20231106, 11/7/2023 11:33:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/08/23 08:05	11/08/23	19:48	BEP	MS-A2	1	B177972	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321097-03		Client Sample Name:	ROUX03-20231106, 11/7/2023 11:42:00AM, Cassandra Walker				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.47	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.10	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.041	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.082	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.80	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.59	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.80	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-03	Client Sample Name: ROUX03-20231106, 11/7/2023 11:42:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/08/23 08:05	11/08/23 20:34		BEP	MS-A2	1	B177972	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-04		Client Sample Name: ROUX04-20231106, 11/7/2023 12:37:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.57	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.093	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.063	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.080	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.51	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.88	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.66	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.23	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.89	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	110	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-04	Client Sample Name: ROUX04-20231106, 11/7/2023 12:37:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/08/23 08:05	11/08/23 21:18		BEP	MS-A2	1	B177972	EPA TO-15

DCN = Data Continuation Number



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Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-05		Client Sample Name: ROUX05-20231106, 11/7/2023 10:02:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.044	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.8	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.48	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.20	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.78	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.70	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.23	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.92	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	109	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-05	Client Sample Name: ROUX05-20231106, 11/7/2023 10:02:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/08/23 08:05	11/08/23 22:04	BEP	MS-A2	1	B177972 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-06		Client Sample Name: ROUX06-20231106, 11/7/2023 10:34:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.77	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.038	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.082	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.48	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.052	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.79	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.61	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.22	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.83	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	107	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-06	Client Sample Name: ROUX06-20231106, 11/7/2023 10:34:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/08/23 08:05	11/08/23 22:50	BEP	MS-A2	1	B177972 EPA TO-15

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Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-07		Client Sample Name: ROUX07-20231106, 11/7/2023 11:17:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.67	ug/m3	0.076	0.0049	EPA-TO-15-SIM	ND	A01	1
Benzyl chloride	ND	ug/m3	0.76	0.0080	EPA-TO-15-SIM	ND	A01	1
Carbon tetrachloride	0.62	ug/m3	0.31	0.0096	EPA-TO-15-SIM	ND	A01	1
Chlorobenzene	ND	ug/m3	0.15	0.012	EPA-TO-15-SIM	ND	A01	1
Chloroform	0.49	ug/m3	0.076	0.0089	EPA-TO-15-SIM	ND	A01	1
1,2-Dibromoethane	ND	ug/m3	0.31	0.021	EPA-TO-15-SIM	ND	A01	1
1,2-Dichlorobenzene	ND	ug/m3	0.31	0.017	EPA-TO-15-SIM	ND	A01	1
1,3-Dichlorobenzene	ND	ug/m3	0.31	0.020	EPA-TO-15-SIM	ND	A01	1
1,4-Dichlorobenzene	ND	ug/m3	0.31	0.024	EPA-TO-15-SIM	ND	A01	1
Dichlorodifluoromethane	2.8	ug/m3	0.076	0.0080	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.076	0.0063	EPA-TO-15-SIM	ND	A01	1
1,2-Dichloroethane	0.085	ug/m3	0.15	0.0070	EPA-TO-15-SIM	ND	J,A01	1
1,1-Dichloroethene	ND	ug/m3	0.076	0.012	EPA-TO-15-SIM	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/m3	0.076	0.0067	EPA-TO-15-SIM	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/m3	0.076	0.011	EPA-TO-15-SIM	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/m3	0.076	0.020	EPA-TO-15-SIM	ND	A01	1
1,1-Difluoroethane	0.43	ug/m3	7.6	0.0041	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene	0.15	ug/m3	0.076	0.026	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene	0.14	ug/m3	0.15	0.017	EPA-TO-15-SIM	ND	J,A01	1
Toluene	0.70	ug/m3	0.15	0.0095	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.15	0.0084	EPA-TO-15-SIM	ND	A01	1
1,1,2-Trichloroethane	ND	ug/m3	0.15	0.0084	EPA-TO-15-SIM	ND	A01	1
Trichloroethene	ND	ug/m3	0.15	0.015	EPA-TO-15-SIM	ND	A01	1
Trichlorofluoromethane	1.5	ug/m3	0.076	0.0087	EPA-TO-15-SIM	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.15	0.012	EPA-TO-15-SIM	ND	A01	1
Vinyl chloride	ND	ug/m3	0.031	0.0070	EPA-TO-15-SIM	ND	A01	1
p- & m-Xylenes	0.44	ug/m3	0.076	0.013	EPA-TO-15-SIM	ND	A01	1
o-Xylene	0.16	ug/m3	0.076	0.0067	EPA-TO-15-SIM	ND	A01	1
Total Xylenes	0.60	ug/m3	0.15	0.020	EPA-TO-15-SIM	ND	A01	1
4-Bromofluorobenzene (Surrogate)	93.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-07	Client Sample Name: ROUX07-20231106, 11/7/2023 11:17:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/08/23 08:05	11/08/23	23:49	BEP	MS-A2	1.530	B177972	EPA TO-15

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 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-08		Client Sample Name: ROUX04-20231106-D, 11/7/2023 12:38:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.099	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.051	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.082	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.83	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.18	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.89	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.59	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.80	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-08	Client Sample Name: ROUX04-20231106-D, 11/7/2023 12:38:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/08/23 08:05	11/09/23 00:34	BEP	MS-A2	1	B177972 EPA TO-15

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 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-09		Client Sample Name: ROUXB01-20231106, 11/7/2023 9:43:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.46	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.61	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.037	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.082	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.30	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.59	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.55	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.73	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-09	Client Sample Name: ROUXB01-20231106, 11/7/2023 9:43:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/08/23 08:05	11/09/23 01:19		BEP	MS-A2	1	B177972	EPA TO-15

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 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-10		Client Sample Name: ROUXB02-20231106, 11/7/2023 10:44:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.72	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.15	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.046	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.083	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.59	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.036	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.71	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.52	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.69	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-10	Client Sample Name: ROUXB02-20231106, 11/7/2023 10:44:00AM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/08/23 08:05	11/09/23 02:04	BEP	MS-A2	1	B177972 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321097-11		Client Sample Name: ROUXB01-20231106-D, 11/7/2023 9:44:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.49	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.038	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.080	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.63	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.19	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.62	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.67	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.23	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.90	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	105	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321097-11	Client Sample Name: ROUXB01-20231106-D, 11/7/2023 9:44:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/08/23 08:05	11/09/23 02:50	BEP	MS-A2	1	B177972 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B177972							
Benzene	B177972-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B177972-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B177972-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B177972-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B177972-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B177972-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B177972-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B177972-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B177972-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B177972-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B177972-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B177972-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B177972-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B177972-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B177972-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B177972-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B177972-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B177972-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B177972-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B177972-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B177972-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B177972-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B177972-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B177972-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B177972-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B177972-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B177972-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B177972-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B177972-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B177972-BLK1	86.3	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B177972-BLK1	PB	EPA-TO-15-SIM	11/08/23	11/08/23 18:20	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B177972											
Benzene	B177972-BS1	LCS	0.30127	0.31948	ug/m3	94.3		70 - 130			1
	B177972-BSD1	LCSD	0.30398	0.31948	ug/m3	95.2	0.9	70 - 130	30		2
Benzyl chloride	B177972-BS1	LCS	0.54547	0.51772	ug/m3	105		70 - 130			1
	B177972-BSD1	LCSD	0.52911	0.51772	ug/m3	102	3.0	70 - 130	30		2
Carbon tetrachloride	B177972-BS1	LCS	0.78390	0.62913	ug/m3	125		70 - 130			1
	B177972-BSD1	LCSD	0.80730	0.62913	ug/m3	128	2.9	70 - 130	30		2
Chlorobenzene	B177972-BS1	LCS	0.53203	0.46036	ug/m3	116		70 - 130			1
	B177972-BSD1	LCSD	0.53885	0.46036	ug/m3	117	1.3	70 - 130	30		2
Chloroform	B177972-BS1	LCS	0.55197	0.48825	ug/m3	113		70 - 130			1
	B177972-BSD1	LCSD	0.56027	0.48825	ug/m3	115	1.5	70 - 130	30		2
1,2-Dibromoethane	B177972-BS1	LCS	0.89036	0.76835	ug/m3	116		70 - 130			1
	B177972-BSD1	LCSD	0.89305	0.76835	ug/m3	116	0.3	70 - 130	30		2
1,2-Dichlorobenzene	B177972-BS1	LCS	0.66280	0.60124	ug/m3	110		70 - 130			1
	B177972-BSD1	LCSD	0.66178	0.60124	ug/m3	110	0.2	70 - 130	30		2
1,3-Dichlorobenzene	B177972-BS1	LCS	0.67765	0.60124	ug/m3	113		70 - 130			1
	B177972-BSD1	LCSD	0.69515	0.60124	ug/m3	116	2.5	70 - 130	30		2
1,4-Dichlorobenzene	B177972-BS1	LCS	0.70092	0.60124	ug/m3	117		70 - 130			1
	B177972-BSD1	LCSD	0.67897	0.60124	ug/m3	113	3.2	70 - 130	30		2
1,1-Dichloroethane	B177972-BS1	LCS	0.42473	0.40474	ug/m3	105		70 - 130			1
	B177972-BSD1	LCSD	0.43101	0.40474	ug/m3	106	1.5	70 - 130	30		2
1,2-Dichloroethane	B177972-BS1	LCS	0.50107	0.40474	ug/m3	124		70 - 130			1
	B177972-BSD1	LCSD	0.48759	0.40474	ug/m3	120	2.7	70 - 130	30		2
1,1-Dichloroethene	B177972-BS1	LCS	0.37132	0.39649	ug/m3	93.6		70 - 130			1
	B177972-BSD1	LCSD	0.37477	0.39649	ug/m3	94.5	0.9	70 - 130	30		2
cis-1,2-Dichloroethene	B177972-BS1	LCS	0.37489	0.39649	ug/m3	94.6		70 - 130			1
	B177972-BSD1	LCSD	0.38242	0.39649	ug/m3	96.5	2.0	70 - 130	30		2
Tetrachloroethene	B177972-BS1	LCS	0.84571	0.67825	ug/m3	125		70 - 130			1
	B177972-BSD1	LCSD	0.85928	0.67825	ug/m3	127	1.6	70 - 130	30		2
Toluene	B177972-BS1	LCS	0.36961	0.37684	ug/m3	98.1		70 - 130			1
	B177972-BSD1	LCSD	0.37274	0.37684	ug/m3	98.9	0.8	70 - 130	30		2
1,1,1-Trichloroethane	B177972-BS1	LCS	0.65862	0.54562	ug/m3	121		70 - 130			1
	B177972-BSD1	LCSD	0.67400	0.54562	ug/m3	124	2.3	70 - 130	30		2
1,1,2-Trichloroethane	B177972-BS1	LCS	0.65643	0.54562	ug/m3	120		70 - 130			1
	B177972-BSD1	LCSD	0.65753	0.54562	ug/m3	121	0.2	70 - 130	30		2
Trichloroethene	B177972-BS1	LCS	0.61599	0.53737	ug/m3	115		70 - 130			1
	B177972-BSD1	LCSD	0.63534	0.53737	ug/m3	118	3.1	70 - 130	30		2

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Reported: 11/09/2023 21:51
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177972											
Vinyl chloride	B177972-BS1	LCS	0.23864	0.25562	ug/m3	93.4		70 - 130			1
	B177972-BSD1	LCSD	0.24818	0.25562	ug/m3	97.1	3.9	70 - 130	30		2
p- & m-Xylenes	B177972-BS1	LCS	0.82982	0.86843	ug/m3	95.6		70 - 130			1
	B177972-BSD1	LCSD	0.84776	0.86843	ug/m3	97.6	2.1	70 - 130	30		2
o-Xylene	B177972-BS1	LCS	0.42661	0.43421	ug/m3	98.3		70 - 130			1
	B177972-BSD1	LCSD	0.42987	0.43421	ug/m3	99.0	0.8	70 - 130	30		2
Total Xylenes	B177972-BS1	LCS	1.2564	1.3026	ug/m3	96.5		70 - 130			1
	B177972-BSD1	LCSD	1.2776	1.3026	ug/m3	98.1	1.7	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B177972-BS1	LCS	3.39	3.58	ug/m3	94.6		50 - 150			1
	B177972-BSD1	LCSD	3.34	3.58	ug/m3	93.3	1.4	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B177972-BS1	LCS	EPA-TO-15-SIM	11/08/23	11/08/23	17:04	BEP	MS-A2	1
2	B177972-BSD1	LCSD	EPA-TO-15-SIM	11/08/23	11/08/23	17:44	BEP	MS-A2	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/09/2023 21:51
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 11/08/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2321098
Invoice ID: B486687

Enclosed are the results of analyses for samples received by the laboratory on 11/7/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2321098

AIR: CHAIN-OF-CUSTODY / Analytical R

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.



23-21098

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Page: 1 of 1
Company: ROUX		Report To: A. MCGUIRE		Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)		Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Address: 5150 E PCH, STE 450 LONG BEACH, CA 90804		Copy To:		Company Name: ROUX		
Email To: AMCGUIRE@ROUXINC.COM		Purchase Order No.:		Address: 5150 E PCH #450, LONG BEACH, CA 90804		
Phone: 562-446-8624 Fax:		Project Name: CHIQUITA CANYON		Pace Quote Reference: 00148102		
Requested Due Date (TAT):		Project Number: 2471.0001LD03		Pace Project Manager/Sales Rep: Brianna Schutte		Location of Sampling by State _____ Respecting Units SPRTV_ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPRV_ <input type="checkbox"/> ppmV <input type="checkbox"/> Other: _____
Report Level II ___ III ___ IV ___ Other ___						

ITEM #	Section D Required Client Information		MEDIA CODE	COLLECTED	Canister Pressure (Initial Field - psig)	Summa Can Number	Flow Control Number	Method:				
	AIR SAMPLE ID								COMPOSITE START INCLUDING		Canister Pressure (Final Field - psig)	Pace Lab ID
	Sample IDs MUST BE UNIQUE	DATE							TIME	DATE		
1	ROUX01-2023	1104	-1	SLC	11/4/23 1407	11/5/23 1049	-28 -4	0819	13676	x	Method: /10-15 (SLC) (P203) Pace Lab ID	
2	ROUX02-2023	1104	-2	SLC	11/4/23 1352	11/5/23 1133	-30 -5	0812	13893	x		
3	ROUX03-2023	1104	-3	SLC	11/4/23 1359	11/5/23 0949	-30 -4	0799	06028	x		
4	ROUX04-2023	1104	-4	SLC	11/4/23 1344	11/5/23 1039	-28 -4	27733	13689	x		
5	ROUX05-2023	1104	-5	SLC	11/4/23 1330	11/5/23 1143	-29 -5	0796	13694	x		
6	ROUX06-2023	1104	-6	SLC	11/4/23 1243	11/5/23 1018	-30 -5	0483	13690	x		
7	ROUX07-2023	1104	-7	SLC	11/4/23 1228	11/5/23 1008	-30 -5	0763	03662	x		
8	ROUX07 -2023	1104	-8	SLC	11/4/23 1230	11/5/23 1110	-29 -4	0780	17512	x		
9	ROUXB01-2023	1104	-9	SLC	11/4/23 1317	11/5/23 0924	-29 -2	0743	06024	x		
10	ROUXB02-2023	1104	-10	SLC	11/4/23 1301	11/5/23 1026	-30 -4	0728	06026	x		
11	ROUXB02 -2023	1104	-11	SLC	11/4/23 1303	11/5/23 0903	-29 -5	27758	08170	x		

CHK BY: [Signature] DISTRIBUTION SUB OUT

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Audrey O'Leary / ROUX	11/7/23	13:24	Walter Smith	11-23	13:14	Temp in °C Received on Ice Custody Sealed Cooler Samples intact
Walter Smith	11-23	16:20	Rachel Adams	11/7/23	16:20	Temp in °C Received on Ice Custody Sealed Cooler Samples intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Audrey O'Leary

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 11/05/2023

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 2	
Submission #: <u>23-21098</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input checked="" type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>11/2/23 14:00</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>RPB</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PiA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 518/018.1/018.1A										
QT EPA 515.1/015.1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543.1										
QT EPA 545.2										
QT EPA 3015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: RPB Date/Time: 11/2/23 17:10 Rev 23 06/20/22
 A = Actual / C = Corrected [S:\NFDoc\Word\Perfecr\AR_Docs\F0995151ANRECrv 20]

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>	
Submission #: <u>23-21098</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input checked="" type="checkbox"/> Pace Lab Field Service <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>11/2/23</u> <u>11:00</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>RJ</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / Box / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PaA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/508.3/508IA										
QT EPA 515.1/515IA										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: RJ Date/Time: 11/2/23 11:00
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2321098-01	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX01-20231104 Sampled By: Avdrey C	Receive Date: 11/07/2023 16:20 Sampling Date: 11/05/2023 10:49 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2321098-02	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX02-20231104 Sampled By: Avdrey C	Receive Date: 11/07/2023 16:20 Sampling Date: 11/05/2023 11:33 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2321098-03	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX03-20231104 Sampled By: Avdrey C	Receive Date: 11/07/2023 16:20 Sampling Date: 11/05/2023 09:49 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2321098-04	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX04-20231104 Sampled By: Avdrey C	Receive Date: 11/07/2023 16:20 Sampling Date: 11/05/2023 10:39 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2321098-05	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX05-20231104 Sampled By: Avdrey C	Receive Date: 11/07/2023 16:20 Sampling Date: 11/05/2023 11:43 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2321098-06	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX06-20231104 Sampled By: Avdrey C	Receive Date: 11/07/2023 16:20 Sampling Date: 11/05/2023 10:18 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2321098-07	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX07-20231104 Sampled By: Avdrey C	Receive Date: 11/07/2023 16:20 Sampling Date: 11/05/2023 10:08 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321098-08	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/05/2023 11:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231104-D	Lab Matrix:	Air
	Sampled By:	Avdrey C	Sample Type:	Vapor or Air
2321098-09	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/05/2023 09:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231104	Lab Matrix:	Air
	Sampled By:	Avdrey C	Sample Type:	Vapor or Air
2321098-10	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/05/2023 10:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231104	Lab Matrix:	Air
	Sampled By:	Avdrey C	Sample Type:	Vapor or Air
2321098-11	COC Number:	---	Receive Date:	11/07/2023 16:20
	Project Number:	---	Sampling Date:	11/05/2023 09:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231104-D	Lab Matrix:	Air
	Sampled By:	Avdrey C	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-01		Client Sample Name: ROUX01-20231104, 11/5/2023 10:49:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.62	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.080	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.046	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.62	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.27	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.11	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.39	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-01	Client Sample Name: ROUX01-20231104, 11/5/2023 10:49:00AM, Avdrey C
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/07/23	23:46	BEP	MS-A2	1	B177864	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-02		Client Sample Name: ROUX02-20231104, 11/5/2023 11:33:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.78	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.63	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.14	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.058	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.8	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.77	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.049	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.73	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.27	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-02	Client Sample Name: ROUX02-20231104, 11/5/2023 11:33:00AM, Avdrey C
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 00:30		BEP	MS-A2	1	B177864	EPA TO-15

DCN = Data Continuation Number

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-03		Client Sample Name: ROUX03-20231104, 11/5/2023 9:49:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.63	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.045	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.8	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.73	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.045	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.75	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-03	Client Sample Name: ROUX03-20231104, 11/5/2023 9:49:00AM, Avdrey C
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23	01:15	BEP	MS-A2	1	B177864	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-04		Client Sample Name: ROUX04-20231104, 11/5/2023 10:39:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.90	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.62	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.57	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.10	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.094	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	7.3	ug/m3	100	0.054	EPA-TO-15-SIM	ND	J,A01	2
Ethylbenzene	0.34	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.050	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.39	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-04	Client Sample Name: ROUX04-20231104, 11/5/2023 10:39:00AM, Avdrey C								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 02:00	BEP	MS-A2	1	B177864	EPA TO-15	
2	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 11:09	BEP	MS-A2	20	B177864	EPA TO-15	

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Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-05		Client Sample Name: ROUX05-20231104, 11/5/2023 11:43:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.59	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.61	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.18	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.035	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.8	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.086	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.058	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.80	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.59	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.80	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-05	Client Sample Name: ROUX05-20231104, 11/5/2023 11:43:00AM, Avdrey C
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 02:45		BEP	MS-A2	1	B177864	EPA TO-15

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Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-06		Client Sample Name: ROUX06-20231104, 11/5/2023 10:18:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.70	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.21	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.059	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.091	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.0	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.050	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.94	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.34	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	104	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-06	Client Sample Name: ROUX06-20231104, 11/5/2023 10:18:00AM, Avdrey C
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23	03:30	BEP	MS-A2	1	B177864	EPA TO-15

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Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-07		Client Sample Name: ROUX07-20231104, 11/5/2023 10:08:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.62	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.60	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.17	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.050	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.086	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.75	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.049	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.96	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.69	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.94	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-07	Client Sample Name: ROUX07-20231104, 11/5/2023 10:08:00AM, Avdrey C
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 04:16		BEP	MS-A2	1	B177864	EPA TO-15

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Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-08		Client Sample Name: ROUX07-20231104-D, 11/5/2023 11:10:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.62	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.17	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.050	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.72	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.18	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.049	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.58	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.79	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-08	Client Sample Name: ROUX07-20231104-D, 11/5/2023 11:10:00AM, Avdrey C
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 05:01		BEP	MS-A2	1	B177864	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-09		Client Sample Name: ROUXB01-20231104, 11/5/2023 9:24:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.081	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.040	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.65	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.39	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.54	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-09	Client Sample Name: ROUXB01-20231104, 11/5/2023 9:24:00AM, Avdrey C
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23	05:46	BEP	MS-A2	1	B177864	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-10		Client Sample Name: ROUXB02-20231104, 11/5/2023 10:26:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.60	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.27	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.065	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.090	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.8	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.054	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.68	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.94	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-10	Client Sample Name: ROUXB02-20231104, 11/5/2023 10:26:00AM, Avdrey C
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 06:32	BEP	MS-A2	1	B177864 EPA TO-15

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 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321098-11		Client Sample Name: ROUXB02-20231104-D, 11/5/2023 9:03:00AM, Avdrey C						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.61	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.59	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.25	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.076	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.091	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.9	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.043	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.71	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.27	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.97	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321098-11	Client Sample Name: ROUXB02-20231104-D, 11/5/2023 9:03:00AM, Avdrey C
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/07/23 17:05	11/08/23 07:17		BEP	MS-A2	1	B177864	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B177864							
Benzene	B177864-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B177864-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B177864-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B177864-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B177864-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B177864-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B177864-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B177864-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B177864-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B177864-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B177864-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B177864-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B177864-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B177864-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B177864-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B177864-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B177864-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B177864-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B177864-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B177864-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B177864-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B177864-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B177864-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B177864-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B177864-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B177864-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B177864-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B177864-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B177864-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B177864-BLK1	83.2	%	50 - 150 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B177864											
Benzene	B177864-BS1	LCS	0.29948	0.31948	ug/m3	93.7		70 - 130			1
	B177864-BSD1	LCSD	0.29858	0.31948	ug/m3	93.5	0.3	70 - 130	30		2
Benzyl chloride	B177864-BS1	LCS	0.50871	0.51772	ug/m3	98.3		70 - 130			1
	B177864-BSD1	LCSD	0.41765	0.51772	ug/m3	80.7	19.7	70 - 130	30	J	2
Carbon tetrachloride	B177864-BS1	LCS	0.78491	0.62913	ug/m3	125		70 - 130			1
	B177864-BSD1	LCSD	0.77736	0.62913	ug/m3	124	1.0	70 - 130	30		2
Chlorobenzene	B177864-BS1	LCS	0.51670	0.46036	ug/m3	112		70 - 130			1
	B177864-BSD1	LCSD	0.51422	0.46036	ug/m3	112	0.5	70 - 130	30		2
Chloroform	B177864-BS1	LCS	0.54968	0.48825	ug/m3	113		70 - 130			1
	B177864-BSD1	LCSD	0.54694	0.48825	ug/m3	112	0.5	70 - 130	30		2
1,2-Dibromoethane	B177864-BS1	LCS	0.86124	0.76835	ug/m3	112		70 - 130			1
	B177864-BSD1	LCSD	0.85525	0.76835	ug/m3	111	0.7	70 - 130	30		2
1,2-Dichlorobenzene	B177864-BS1	LCS	0.64074	0.60124	ug/m3	107		70 - 130			1
	B177864-BSD1	LCSD	0.61536	0.60124	ug/m3	102	4.0	70 - 130	30		2
1,3-Dichlorobenzene	B177864-BS1	LCS	0.65661	0.60124	ug/m3	109		70 - 130			1
	B177864-BSD1	LCSD	0.61085	0.60124	ug/m3	102	7.2	70 - 130	30		2
1,4-Dichlorobenzene	B177864-BS1	LCS	0.66617	0.60124	ug/m3	111		70 - 130			1
	B177864-BSD1	LCSD	0.60286	0.60124	ug/m3	100	10.0	70 - 130	30		2
1,1-Dichloroethane	B177864-BS1	LCS	0.41344	0.40474	ug/m3	102		70 - 130			1
	B177864-BSD1	LCSD	0.41619	0.40474	ug/m3	103	0.7	70 - 130	30		2
1,2-Dichloroethane	B177864-BS1	LCS	0.48476	0.40474	ug/m3	120		70 - 130			1
	B177864-BSD1	LCSD	0.47533	0.40474	ug/m3	117	2.0	70 - 130	30		2
1,1-Dichloroethene	B177864-BS1	LCS	0.37005	0.39649	ug/m3	93.3		70 - 130			1
	B177864-BSD1	LCSD	0.35978	0.39649	ug/m3	90.7	2.8	70 - 130	30		2
cis-1,2-Dichloroethene	B177864-BS1	LCS	0.36981	0.39649	ug/m3	93.3		70 - 130			1
	B177864-BSD1	LCSD	0.37576	0.39649	ug/m3	94.8	1.6	70 - 130	30		2
Tetrachloroethene	B177864-BS1	LCS	0.82381	0.67825	ug/m3	121		70 - 130			1
	B177864-BSD1	LCSD	0.82123	0.67825	ug/m3	121	0.3	70 - 130	30		2
Toluene	B177864-BS1	LCS	0.35725	0.37684	ug/m3	94.8		70 - 130			1
	B177864-BSD1	LCSD	0.35766	0.37684	ug/m3	94.9	0.1	70 - 130	30		2
1,1,1-Trichloroethane	B177864-BS1	LCS	0.65082	0.54562	ug/m3	119		70 - 130			1
	B177864-BSD1	LCSD	0.64301	0.54562	ug/m3	118	1.2	70 - 130	30		2
1,1,2-Trichloroethane	B177864-BS1	LCS	0.63859	0.54562	ug/m3	117		70 - 130			1
	B177864-BSD1	LCSD	0.62752	0.54562	ug/m3	115	1.7	70 - 130	30		2
Trichloroethene	B177864-BS1	LCS	0.60793	0.53737	ug/m3	113		70 - 130			1
	B177864-BSD1	LCSD	0.60944	0.53737	ug/m3	113	0.2	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/08/2023 16:30
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B177864											
Vinyl chloride	B177864-BS1	LCS	0.24204	0.25562	ug/m3	94.7		70 - 130			1
	B177864-BSD1	LCSD	0.24767	0.25562	ug/m3	96.9	2.3	70 - 130	30		2
p- & m-Xylenes	B177864-BS1	LCS	0.83564	0.86843	ug/m3	96.2		70 - 130			1
	B177864-BSD1	LCSD	0.81662	0.86843	ug/m3	94.0	2.3	70 - 130	30		2
o-Xylene	B177864-BS1	LCS	0.42431	0.43421	ug/m3	97.7		70 - 130			1
	B177864-BSD1	LCSD	0.41797	0.43421	ug/m3	96.3	1.5	70 - 130	30		2
Total Xylenes	B177864-BS1	LCS	1.2600	1.3026	ug/m3	96.7		70 - 130			1
	B177864-BSD1	LCSD	1.2346	1.3026	ug/m3	94.8	2.0	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B177864-BS1	LCS	3.38	3.58	ug/m3	94.5		50 - 150			1
	B177864-BSD1	LCSD	3.28	3.58	ug/m3	91.6	3.1	50 - 150			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1
2	B177864-BSD1	LCSD	EPA-TO-15-SIM	11/06/23	11/07/23 16:55	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/08/2023 16:30
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 11/15/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2321318
Invoice ID: B487043

Enclosed are the results of analyses for samples received by the laboratory on 11/9/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be "BS", written over a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to be "Stuart Buttram", written over a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

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Section A Required Client Information:
 Company: ROLUX
 Address: 5150 E PCH, STE 450
 LONG BEACH, CA 90804
 Email To: AMCS@ROLUX.COM
 Phone: 562-446-8034 Fax:
 Requested Due Date:

Section B Required Project Information:
 Report To: A. MCCOURE
 Copy To:
 Purchase Order No.:
 Project Name: CHQUITA CANYON
 Project Number: 2471-00011003

Section C Invoice Information:
 Attention: ROLUX ACCOUNTS PAYABLE (ROLUX@ROLUX.COM)
 Company Name: ROLUX
 Address: 5150 E PCH #450, LONG BEACH, CA 90804
 Pace Quote Reference: 001-48192
 Pace Project Manager/Sales Rep: Brianna Schoutz
 Pace Profile #:

ment

AIR: CHAIN-OF-CUSTODY 2321318
 The Chain-of-Custody is a LEGAL DOCUMENT. All res.

Page: 1 of 1

Program:
 UST Spentfud Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: AZ CA HI IL IN MI MN NY OH PA RI TN TX VA WI WY

Method: TO-15 SIM (VOCs) Other

ITEM #	COLLECTED		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS					
	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice	Sealed Cooler	Custody	Samples intact	
1	11/01/23	14:00	11/01/23	12:02	11/01/23	12:02	11/01/23	12:20	11/01/23	16:50						
2	11/01/23	14:02	11/01/23	10:27	11/01/23	10:08	11/01/23	12:10	11/01/23	12:20						
3	11/01/23	14:10	11/01/23	11:55	11/01/23	11:55	11/01/23	16:30	11/01/23	16:50						
4	11/01/23	13:52	11/01/23	10:19	11/01/23	09:59	11/01/23	16:30	11/01/23	16:50						
5	11/01/23	13:05	11/01/23	10:08	11/01/23	10:08	11/01/23	12:10	11/01/23	12:20						
6	11/01/23	12:51	11/01/23	09:20	11/01/23	09:20	11/01/23	16:30	11/01/23	16:50						
7	11/01/23	12:30	11/01/23	09:59	11/01/23	09:59	11/01/23	16:30	11/01/23	16:50						
8	11/01/23	12:52	11/01/23	09:16	11/01/23	09:16	11/01/23	16:30	11/01/23	16:50						
9	11/01/23	13:40	11/01/23	09:32	11/01/23	09:32	11/01/23	16:30	11/01/23	16:50						
10	11/01/23	13:11	11/01/23	09:46	11/01/23	09:46	11/01/23	16:30	11/01/23	16:50						
11	11/01/23	13:12	11/01/23	09:47	11/01/23	09:47	11/01/23	16:30	11/01/23	16:50						
12																

Comments:

CHK BY: [Signature] DISTRIBUTION [Signature] SUB OUT [Signature]

RELINQUISHED BY: [Signature] DATE: 11-9-23 TIME: 16:30

ACCEPTED BY: Walter Sneath DATE: 11-9-23 TIME: 16:50

SAMPLER NAME AND SIGNATURE: [Signature]
 PRINT NAME OF SAMPLER: Cassandra Walker
 SIGNATURE OF SAMPLER: [Signature] DATE SIGNED (MM/DD/YYYY): 11-9-23

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6385 F046Rev.01, 03Feb2010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2						
Submission #: <u>23-2318</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input type="checkbox"/> Comments: _____										
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>11/9/23</u> <u>1630</u>						
Temperature: (A) _____ °C / (C) _____ °C		Analyst Init <u>PRE</u>								
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PT PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - SM										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 801501										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 11/9/23 1715 Rev 23 05/20/22
 A = Actual / C = Corrected [S:\WPDoc\New\PerfectLAB_DOC\FORMS\SAVREC\w 20]

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 2 Of 3	
Submission #: 23-21318					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: SUMMA Thermometer ID: _____ Temperature: (A) Room °C / (C) Temp °C		Date/Time 11/9/23 1630 Analyst Init PRG	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 5M										
QT EPA 208.05.30081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 6015M										
QT EPA 627C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A									

Comments: _____
 Sample Numbering Completed By: PRG Date/Time: 11/9/23 1715
 A = Actual / C = Corrected

Rev 23 05/20/22

(S:\PAC\Doc\Word\Protect_LAB_DOC\FORMS\ISABERG_Cust 31)



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2321318-01	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 12:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-2023	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2321318-02	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 10:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2321318-03	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 11:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2321318-04	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 10:19
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2321318-05	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 10:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2321318-06	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 09:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2321318-07	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 09:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
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Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321318-08	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 09:16
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231108-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321318-09	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 09:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321318-10	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 09:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231108	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321318-11	COC Number:	---	Receive Date:	11/09/2023 16:30
	Project Number:	---	Sampling Date:	11/09/2023 09:47
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231108-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-01		Client Sample Name: ROUX01-2023, 11/9/2023 12:02:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.18	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.62	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.083	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.096	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.023	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.17	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.078	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.028	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.11	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-01	Client Sample Name: ROUX01-2023, 11/9/2023 12:02:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/09/23 17:04	11/09/23 23:35		BEP	MS-A2	1	B178042	EPA TO-15

DCN = Data Continuation Number



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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-02		Client Sample Name: ROUX02-20231108, 11/9/2023 10:27:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.22	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.63	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.090	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.099	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.055	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.056	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.31	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.18	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.069	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.25	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-02	Client Sample Name: ROUX02-20231108, 11/9/2023 10:27:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23 00:21		BEP	MS-A2	1	B178042	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-03		Client Sample Name: ROUX03-20231108, 11/9/2023 11:55:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.63	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.085	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.099	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.085	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.11	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.44	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.27	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.097	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.37	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-03	Client Sample Name: ROUX03-20231108, 11/9/2023 11:55:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23	01:06	BEP	MS-A2	1	B178042	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-04		Client Sample Name: ROUX04-20231108, 11/9/2023 10:19:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.23	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.63	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.090	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.097	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.064	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.045	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.36	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.22	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.077	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.30	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-04	Client Sample Name: ROUX04-20231108, 11/9/2023 10:19:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23 01:52	BEP	MS-A2	1	B178042 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-05		Client Sample Name: ROUX05-20231108, 11/9/2023 10:08:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.29	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.64	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.097	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.69	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.51	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.19	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.70	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-05	Client Sample Name: ROUX05-20231108, 11/9/2023 10:08:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23	02:38	BEP	MS-A2	1	B178042	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-06		Client Sample Name: ROUX06-20231108, 11/9/2023 9:20:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.30	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.64	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.14	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.60	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.091	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.64	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.34	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.47	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-06	Client Sample Name: ROUX06-20231108, 11/9/2023 9:20:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23	03:24	BEP	MS-A2	1	B178042	EPA TO-15

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-07		Client Sample Name: ROUX07-20231108, 11/9/2023 9:59:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.31	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.64	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.17	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.8	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.28	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.079	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.12	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.53	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.26	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.10	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.36	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-07	Client Sample Name: ROUX07-20231108, 11/9/2023 9:59:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23 04:10	BEP	MS-A2	1	B178042 EPA TO-15

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-08		Client Sample Name: ROUX06-20231108-D, 11/9/2023 9:16:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.30	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.63	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.50	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.087	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.64	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.30	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.11	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.41	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-08	Client Sample Name: ROUX06-20231108-D, 11/9/2023 9:16:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23 04:56		BEP	MS-A2	1	B178042	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321318-09		Client Sample Name: ROUXB01-20231108, 11/9/2023 9:32:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.18	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.65	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.092	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.041	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	0.12	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.22	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.15	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.050	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.20	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-09	Client Sample Name: ROUXB01-20231108, 11/9/2023 9:32:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23	05:41	BEP	MS-A2	1	B178042	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321318-10							Client Sample Name:	ROUXB02-20231108, 11/9/2023 9:46:00AM, Cassandra Walker				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN					
Benzene	0.30	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1					
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1					
Carbon tetrachloride	0.65	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1					
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1					
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1					
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1					
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1					
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1					
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1					
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1					
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1					
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1					
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1					
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1					
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1					
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1					
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1					
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1					
Tetrachloroethene	0.053	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1					
Toluene	0.73	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1					
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1					
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1					
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1					
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1					
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1					
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1					
p- & m-Xylenes	0.48	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1					
o-Xylene	0.20	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1					
Total Xylenes	0.68	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1					
4-Bromofluorobenzene (Surrogate)	91.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1					

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-10	Client Sample Name: ROUXB02-20231108, 11/9/2023 9:46:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23 06:27	BEP	MS-A2	1	B178042 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321318-11	Client Sample Name:	ROUXB02-20231108-D, 11/9/2023 9:47:00AM, Cassandra Walker					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.30	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.64	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.15	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.44	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.062	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.036	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.42	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.20	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.074	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.27	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321318-11	Client Sample Name: ROUXB02-20231108-D, 11/9/2023 9:47:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/09/23 17:04	11/10/23 07:13	BEP	MS-A2	1	B178042 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178042							
Benzene	B178042-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B178042-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B178042-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B178042-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B178042-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B178042-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B178042-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B178042-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B178042-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B178042-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B178042-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B178042-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B178042-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B178042-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B178042-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B178042-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B178042-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B178042-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B178042-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B178042-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B178042-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B178042-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B178042-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B178042-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B178042-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B178042-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B178042-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B178042-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B178042-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B178042-BLK1	83.1	%	50 - 150 (LCL - UCL)			1

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Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run	Analyst	Instrument	Dilution
					Date Time			
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1
1	B178042-BLK1	PB	EPA-TO-15-SIM	11/09/23	11/09/23 16:19	BEP	MS-A2	1

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Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B178042											
Benzene	B178042-BS1	LCS	0.30551	0.31948	ug/m3	95.6		70 - 130			1
	B178042-BSD1	LCSD	0.30456	0.31948	ug/m3	95.3	0.3	70 - 130	30		2
Benzyl chloride	B178042-BS1	LCS	0.57229	0.51772	ug/m3	111		70 - 130			1
	B178042-BSD1	LCSD	0.52393	0.51772	ug/m3	101	8.8	70 - 130	30		2
Carbon tetrachloride	B178042-BS1	LCS	0.81227	0.62913	ug/m3	129		70 - 130			1
	B178042-BSD1	LCSD	0.81737	0.62913	ug/m3	130	0.6	70 - 130	30		2
Chlorobenzene	B178042-BS1	LCS	0.54916	0.46036	ug/m3	119		70 - 130			1
	B178042-BSD1	LCSD	0.54833	0.46036	ug/m3	119	0.2	70 - 130	30		2
Chloroform	B178042-BS1	LCS	0.56403	0.48825	ug/m3	116		70 - 130			1
	B178042-BSD1	LCSD	0.57843	0.48825	ug/m3	118	2.5	70 - 130	30		2
1,2-Dibromoethane	B178042-BS1	LCS	0.91526	0.76835	ug/m3	119		70 - 130			1
	B178042-BSD1	LCSD	0.92978	0.76835	ug/m3	121	1.6	70 - 130	30		2
1,2-Dichlorobenzene	B178042-BS1	LCS	0.68222	0.60124	ug/m3	113		70 - 130			1
	B178042-BSD1	LCSD	0.68391	0.60124	ug/m3	114	0.2	70 - 130	30		2
1,3-Dichlorobenzene	B178042-BS1	LCS	0.71427	0.60124	ug/m3	119		70 - 130			1
	B178042-BSD1	LCSD	0.72034	0.60124	ug/m3	120	0.8	70 - 130	30		2
1,4-Dichlorobenzene	B178042-BS1	LCS	0.71325	0.60124	ug/m3	119		70 - 130			1
	B178042-BSD1	LCSD	0.70375	0.60124	ug/m3	117	1.3	70 - 130	30		2
1,1-Dichloroethane	B178042-BS1	LCS	0.43222	0.40474	ug/m3	107		70 - 130			1
	B178042-BSD1	LCSD	0.42429	0.40474	ug/m3	105	1.9	70 - 130	30		2
1,2-Dichloroethane	B178042-BS1	LCS	0.50439	0.40474	ug/m3	125		70 - 130			1
	B178042-BSD1	LCSD	0.50799	0.40474	ug/m3	126	0.7	70 - 130	30		2
1,1-Dichloroethene	B178042-BS1	LCS	0.37072	0.39649	ug/m3	93.5		70 - 130			1
	B178042-BSD1	LCSD	0.37770	0.39649	ug/m3	95.3	1.9	70 - 130	30		2
cis-1,2-Dichloroethene	B178042-BS1	LCS	0.38948	0.39649	ug/m3	98.2		70 - 130			1
	B178042-BSD1	LCSD	0.37600	0.39649	ug/m3	94.8	3.5	70 - 130	30		2
Tetrachloroethene	B178042-BS1	LCS	0.86552	0.67825	ug/m3	128		70 - 130			1
	B178042-BSD1	LCSD	0.88092	0.67825	ug/m3	130	1.8	70 - 130	30		2
Toluene	B178042-BS1	LCS	0.36878	0.37684	ug/m3	97.9		70 - 130			1
	B178042-BSD1	LCSD	0.37002	0.37684	ug/m3	98.2	0.3	70 - 130	30		2
1,1,1-Trichloroethane	B178042-BS1	LCS	0.67373	0.54562	ug/m3	123		70 - 130			1
	B178042-BSD1	LCSD	0.68224	0.54562	ug/m3	125	1.3	70 - 130	30		2
1,1,2-Trichloroethane	B178042-BS1	LCS	0.66686	0.54562	ug/m3	122		70 - 130			1
	B178042-BSD1	LCSD	0.66866	0.54562	ug/m3	123	0.3	70 - 130	30		2
Trichloroethene	B178042-BS1	LCS	0.65001	0.53737	ug/m3	121		70 - 130			1
	B178042-BSD1	LCSD	0.64866	0.53737	ug/m3	121	0.2	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178042											
Vinyl chloride	B178042-BS1	LCS	0.24856	0.25562	ug/m3	97.2		70 - 130			1
	B178042-BSD1	LCSD	0.25117	0.25562	ug/m3	98.3	1.0	70 - 130	30		2
p- & m-Xylenes	B178042-BS1	LCS	0.83490	0.86843	ug/m3	96.1		70 - 130			1
	B178042-BSD1	LCSD	0.84784	0.86843	ug/m3	97.6	1.5	70 - 130	30		2
o-Xylene	B178042-BS1	LCS	0.42614	0.43421	ug/m3	98.1		70 - 130			1
	B178042-BSD1	LCSD	0.44129	0.43421	ug/m3	102	3.5	70 - 130	30		2
Total Xylenes	B178042-BS1	LCS	1.2610	1.3026	ug/m3	96.8		70 - 130			1
	B178042-BSD1	LCSD	1.2891	1.3026	ug/m3	99.0	2.2	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B178042-BS1	LCS	3.41	3.58	ug/m3	95.3		50 - 150			1
	B178042-BSD1	LCSD	3.33	3.58	ug/m3	92.9	2.5	50 - 150			2

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
1	B178042-BS1	LCS	EPA-TO-15-SIM	11/09/23	11/09/23 15:01	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/15/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1
2	B178042-BSD1	LCSD	EPA-TO-15-SIM	11/09/23	11/09/23 15:41	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/15/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 11/16/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2321441
Invoice ID: B487099

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

Page: 1 of 1

2321441

Section A
Required Client Information:

Company: ROUX
Address: 9150 E PCH, STE. 450
LONG BEACH, CA 90804
Email To: AMCGULINE@ROUXINC.COM
Phone: 562-446-9024 Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: A. MCQUIRE
Copy To:
Purchase Order No.:
Project Name: CHICOUITA CANYON
Project Number: 2471.0001.003

Section C
Invoice Information:

Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)
Company Name: ROUX
Address: 9150 E PCH #450, LONG BEACH, CA 90804
Pace Quote Reference: 00148192
Pace Project Manager/Sales Rep: Brianna Schulte
Pace Profile #:

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	COLLECTED		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice
1	11/10/23	12:48	11/10/23	09:21	11/20/23	12:20		
2	11/10/23	12:57	11/10/23	11:11	11/20/23	12:20		
3	11/10/23	13:10	11/10/23	09:51	11/20/23	14:15		
4	11/10/23	13:26	11/10/23	10:04	11/20/23	14:15		
5	11/10/23	13:44	11/10/23	10:16	11/20/23	14:15		
6	11/10/23	13:55	11/10/23	10:31	11/20/23	14:15		
7	11/10/23	14:03	11/10/23	10:39	11/20/23	14:15		
8	11/10/23	14:09	11/10/23	10:46	11/20/23	14:15		
9	11/10/23	14:18	11/10/23	10:52	11/20/23	14:15		
10	11/10/23	13:27	11/10/23	11:49	11/20/23	14:15		
11	11/10/23	13:42	11/10/23	10:17	11/20/23	14:15		

Comments:

1. Cassia...
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...
11. ...

CHK BY: [Signature] **DISTRIBUTION:** [Signature] **SUB OUT:** [Signature]

SAMPLER NAME AND SIGNATURE: Peter Griffin
DATE: 11/11/23

FC046Rev.01, 03F-602010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 2	
Submission #: <u>23-21441</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: _____ Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>4/13/23</u> Analyst Init <u>WV</u> 1415	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / Box / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / Box / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/608.3/8051A										
QT EPA 515.1/8151A, 5152										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8278C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAE										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>GL</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>

Comments: _____
 Sample Numbering Completed By: PRG Date/Time: 4/13/23 1558 Rev 23 05/20/22
 A = Actual / C = Corrected [B:\WP\Doc\Word\PerfectLAB_DOC\FORMS\SAMREC\rev 20]

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>						
Submission #: <u>23-21441</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		None <input checked="" type="checkbox"/> Comments:								
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: _____ Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>4/13/23</u> Analyst Init <u>WJL</u> 1415						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PrA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8170C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	Gel	A								

Comments: _____
 Sample Numbering Completed By: PPS Date/Time: 4/13/23 1550
 A = Actual / C = Corrected [C:\WPDec\WordPerfor\LAB_DOC\CFORMS\CHAINRECrev 20]



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321441-01	COC Number:	---	11/13/2023	14:15
	Project Number:	---	Sampling Date:	11/10/2023 12:48
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-02	COC Number:	---	11/13/2023	14:15
	Project Number:	---	Sampling Date:	11/10/2023 12:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-03	COC Number:	---	11/13/2023	14:15
	Project Number:	---	Sampling Date:	11/10/2023 13:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-04	COC Number:	---	11/13/2023	14:15
	Project Number:	---	Sampling Date:	11/10/2023 13:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-05	COC Number:	---	11/13/2023	14:15
	Project Number:	---	Sampling Date:	11/10/2023 13:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-06	COC Number:	---	11/13/2023	14:15
	Project Number:	---	Sampling Date:	11/10/2023 13:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-07	COC Number:	---	11/13/2023	14:15
	Project Number:	---	Sampling Date:	11/10/2023 14:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321441-08	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/10/2023 14:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-09	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/10/2023 14:18
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231110	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-10	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/10/2023 13:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231110-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321441-11	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/10/2023 13:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231110-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air

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Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-01		Client Sample Name: ROUX07-20231110, 11/10/2023 12:48:00PM, Peter Grimmett						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.51	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.23	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.13	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.76	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.047	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.89	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.30	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-01	Client Sample Name: ROUX07-20231110, 11/10/2023 12:48:00PM, Peter Grimmert
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/13/23 17:23	11/14/23 00:50	BEP	MS-A2	1	B178260 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321441-02							
Client Sample Name:	ROUX06-20231110, 11/10/2023 12:59:00PM, Peter Grimmett							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.57	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.52	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.18	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.038	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.13	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.60	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.29	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.039	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.38	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	109	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-02	Client Sample Name: ROUX06-20231110, 11/10/2023 12:59:00PM, Peter Grimmert
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23 21:56		BEP	MS-A2	1	B178260	EPA TO-15

DCN = Data Continuation Number



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-03		Client Sample Name: ROUXB02-20231110, 11/10/2023 1:10:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.51	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.52	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.17	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.032	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.14	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.57	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.82	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.49	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.67	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-03	Client Sample Name: ROUXB02-20231110, 11/10/2023 1:10:00PM, Peter Grimmatt
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23	22:40	BEP	MS-A2	1	B178260	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-04		Client Sample Name: ROUX05-20231110, 11/10/2023 1:26:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.53	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.52	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.18	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.13	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.27	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.042	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.98	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.37	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-04	Client Sample Name: ROUX05-20231110, 11/10/2023 1:26:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23	23:23	BEP	MS-A2	1	B178260	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-05		Client Sample Name: ROUXB01-20231110, 11/10/2023 1:41:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.33	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.52	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.13	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.20	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.095	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.13	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.51	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.31	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.11	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.43	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	96.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-05	Client Sample Name: ROUXB01-20231110, 11/10/2023 1:41:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/13/23 17:23	11/14/23 00:07	BEP	MS-A2	1	B178260 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321441-06							Client Sample Name:	ROUX04-20231110, 11/10/2023 1:55:00PM, Peter Grimmert				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN					
Benzene	0.94	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1					
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1					
Carbon tetrachloride	0.51	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1					
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1					
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1					
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1					
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1					
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1					
1,4-Dichlorobenzene	0.071	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1					
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1					
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1					
1,2-Dichloroethane	0.14	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1					
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1					
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1					
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1					
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1					
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1					
Ethylbenzene	0.37	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1					
Tetrachloroethene	0.039	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1					
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1					
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1					
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1					
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1					
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1					
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1					
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1					
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1					
o-Xylene	0.50	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1					
Total Xylenes	1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1					
4-Bromofluorobenzene (Surrogate)	98.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1					

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-06	Client Sample Name: ROUX04-20231110, 11/10/2023 1:55:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23 18:15	BEP	MS-A2	1	B178260 EPA TO-15

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-07		Client Sample Name: ROUX02-20231110, 11/10/2023 2:03:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.76	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.52	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.032	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.14	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.46	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.043	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.79	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-07	Client Sample Name: ROUX02-20231110, 11/10/2023 2:03:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23 19:00	BEP	MS-A2	1	B178260 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-08		Client Sample Name: ROUX03-20231110, 11/10/2023 2:09:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.51	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.13	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.65	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.037	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.79	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-08	Client Sample Name: ROUX03-20231110, 11/10/2023 2:09:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23 19:44	BEP	MS-A2	1	B178260 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-09		Client Sample Name: ROUX01-20231110, 11/10/2023 2:18:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.51	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.13	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.31	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.64	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.39	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.52	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-09	Client Sample Name: ROUX01-20231110, 11/10/2023 2:18:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23	20:28	BEP	MS-A2	1	B178260	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321441-10							Client Sample Name:	ROUX05-20231110-D, 11/10/2023 1:27:00PM, Peter Grimmert				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN					
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1					
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1					
Carbon tetrachloride	0.52	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1					
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1					
Chloroform	0.18	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1					
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1					
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1					
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1					
1,4-Dichlorobenzene	0.038	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1					
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1					
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1					
1,2-Dichloroethane	0.14	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1					
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1					
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1					
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1					
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1					
1,1-Difluoroethane	0.55	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1					
Ethylbenzene	0.29	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1					
Tetrachloroethene	0.092	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1					
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1					
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1					
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1					
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1					
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1					
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1					
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1					
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1					
o-Xylene	0.39	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1					
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1					
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1					

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-10	Client Sample Name: ROUX05-20231110-D, 11/10/2023 1:27:00PM, Peter Grimmert
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/13/23 17:23	11/13/23 21:12	BEP	MS-A2	1	B178260 EPA TO-15

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321441-11		Client Sample Name: ROUXB01-20231110-D, 11/10/2023 1:42:00PM, Peter Grimm						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.30	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.53	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.13	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.17	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.098	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.12	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.48	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.30	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.11	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.41	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321441-11	Client Sample Name: ROUXB01-20231110-D, 11/10/2023 1:42:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/13/23 17:23	11/14/23 09:10	BEP	MS-A2	1	B178260 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178260							
Benzene	B178260-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B178260-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B178260-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B178260-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B178260-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B178260-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B178260-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B178260-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B178260-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B178260-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B178260-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B178260-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B178260-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B178260-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B178260-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B178260-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B178260-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B178260-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B178260-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B178260-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B178260-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B178260-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B178260-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B178260-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B178260-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B178260-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B178260-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B178260-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B178260-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B178260-BLK1	86.3	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B178260-BLK1	PB	EPA-TO-15-SIM	11/13/23	11/13/23 16:30	BEP	MS-A2	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B178260											
Benzene	B178260-BS1	LCS	0.32261	0.31948	ug/m3	101		70 - 130			1
	B178260-BSD1	LCSD	0.32334	0.31948	ug/m3	101	0.2	70 - 130	30		2
Benzyl chloride	B178260-BS1	LCS	0.59502	0.51772	ug/m3	115		70 - 130			1
	B178260-BSD1	LCSD	0.54480	0.51772	ug/m3	105	8.8	70 - 130	30		2
Carbon tetrachloride	B178260-BS1	LCS	0.68513	0.62913	ug/m3	109		70 - 130			1
	B178260-BSD1	LCSD	0.68959	0.62913	ug/m3	110	0.6	70 - 130	30		2
Chlorobenzene	B178260-BS1	LCS	0.49543	0.46036	ug/m3	108		70 - 130			1
	B178260-BSD1	LCSD	0.49622	0.46036	ug/m3	108	0.2	70 - 130	30		2
Chloroform	B178260-BS1	LCS	0.52023	0.48825	ug/m3	107		70 - 130			1
	B178260-BSD1	LCSD	0.53049	0.48825	ug/m3	109	2.0	70 - 130	30		2
1,2-Dibromoethane	B178260-BS1	LCS	0.83404	0.76835	ug/m3	109		70 - 130			1
	B178260-BSD1	LCSD	0.83343	0.76835	ug/m3	108	0.1	70 - 130	30		2
1,2-Dichlorobenzene	B178260-BS1	LCS	0.64146	0.60124	ug/m3	107		70 - 130			1
	B178260-BSD1	LCSD	0.62847	0.60124	ug/m3	105	2.0	70 - 130	30		2
1,3-Dichlorobenzene	B178260-BS1	LCS	0.66869	0.60124	ug/m3	111		70 - 130			1
	B178260-BSD1	LCSD	0.65931	0.60124	ug/m3	110	1.4	70 - 130	30		2
1,4-Dichlorobenzene	B178260-BS1	LCS	0.65823	0.60124	ug/m3	109		70 - 130			1
	B178260-BSD1	LCSD	0.63761	0.60124	ug/m3	106	3.2	70 - 130	30		2
1,1-Dichloroethane	B178260-BS1	LCS	0.42538	0.40474	ug/m3	105		70 - 130			1
	B178260-BSD1	LCSD	0.42113	0.40474	ug/m3	104	1.0	70 - 130	30		2
1,2-Dichloroethane	B178260-BS1	LCS	0.43797	0.40474	ug/m3	108		70 - 130			1
	B178260-BSD1	LCSD	0.44206	0.40474	ug/m3	109	0.9	70 - 130	30		2
1,1-Dichloroethene	B178260-BS1	LCS	0.39499	0.39649	ug/m3	99.6		70 - 130			1
	B178260-BSD1	LCSD	0.40209	0.39649	ug/m3	101	1.8	70 - 130	30		2
cis-1,2-Dichloroethene	B178260-BS1	LCS	0.39804	0.39649	ug/m3	100		70 - 130			1
	B178260-BSD1	LCSD	0.40887	0.39649	ug/m3	103	2.7	70 - 130	30		2
Tetrachloroethene	B178260-BS1	LCS	0.73292	0.67825	ug/m3	108		70 - 130			1
	B178260-BSD1	LCSD	0.72953	0.67825	ug/m3	108	0.5	70 - 130	30		2
Toluene	B178260-BS1	LCS	0.39335	0.37684	ug/m3	104		70 - 130			1
	B178260-BSD1	LCSD	0.39184	0.37684	ug/m3	104	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B178260-BS1	LCS	0.58616	0.54562	ug/m3	107		70 - 130			1
	B178260-BSD1	LCSD	0.59925	0.54562	ug/m3	110	2.2	70 - 130	30		2
1,1,2-Trichloroethane	B178260-BS1	LCS	0.57934	0.54562	ug/m3	106		70 - 130			1
	B178260-BSD1	LCSD	0.58452	0.54562	ug/m3	107	0.9	70 - 130	30		2
Trichloroethene	B178260-BS1	LCS	0.57515	0.53737	ug/m3	107		70 - 130			1
	B178260-BSD1	LCSD	0.58053	0.53737	ug/m3	108	0.9	70 - 130	30		2

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 Long Beach, CA 90804

Reported: 11/16/2023 10:29
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178260											
Vinyl chloride	B178260-BS1	LCS	0.25848	0.25562	ug/m3	101		70 - 130			1
	B178260-BSD1	LCSD	0.25983	0.25562	ug/m3	102	0.5	70 - 130	30		2
p- & m-Xylenes	B178260-BS1	LCS	0.90881	0.86843	ug/m3	105		70 - 130			1
	B178260-BSD1	LCSD	0.91397	0.86843	ug/m3	105	0.6	70 - 130	30		2
o-Xylene	B178260-BS1	LCS	0.45545	0.43421	ug/m3	105		70 - 130			1
	B178260-BSD1	LCSD	0.46053	0.43421	ug/m3	106	1.1	70 - 130	30		2
Total Xylenes	B178260-BS1	LCS	1.3643	1.3026	ug/m3	105		70 - 130			1
	B178260-BSD1	LCSD	1.3745	1.3026	ug/m3	106	0.7	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B178260-BS1	LCS	3.62	3.58	ug/m3	101		50 - 150			1
	B178260-BSD1	LCSD	3.60	3.58	ug/m3	100	0.6	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B178260-BS1	LCS	EPA-TO-15-SIM	11/13/23	11/13/23	15:14	BEP	MS-A2	1
2	B178260-BSD1	LCSD	EPA-TO-15-SIM	11/13/23	11/13/23	15:54	BEP	MS-A2	1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/16/2023 10:29
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 11/29/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2321442
Invoice ID: B487920

Enclosed are the results of analyses for samples received by the laboratory on 11/13/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2321442

AIR: CHAIN-OF-CUSTODY / Analytical

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.



23-21442

Section A Required Client Information:
 Company: ROUX Address: 5150 E PCH, STE 450 LONG BEACH, CA 90804
 Email To: AMC@ROUX.COM Phone: 562-448-8824 Fax: [blank]
 Requested Due Date(TA): [blank]

Section B Required Project Information:
 Report To: A. MCGUIRE Corp To: [blank]
 Purchaser Order No.: [blank] Project Name: CHIGUITA CANYON Project Number: 2471.0001.000
 Address: 5150 E PCH #450, LONG BEACH, CA 90804
 Pace Quote Reference: 00148152
 Pace Project Manager/Sales Rep: Brianna Schulte
 Pace Profile #: [blank]

Section C Invoice Information:
 Member: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUX.COM)
 Company Name: ROUX
 Address: 5150 E PCH #450, LONG BEACH, CA 90804
 Pace Quote Reference: 00148152
 Pace Project Manager/Sales Rep: Brianna Schulte
 Pace Profile #: [blank]

Section D Required Client Information:
 AIR SAMPLE ID
 Sample ID'S MUST BE UNIQUE

ITEM #	VMS Media Code	MEDIA CODE	P/D Reading (Client only)	COLLECTED		Summa Can Number	Flow Control Number	RELINQUISHED BY / AFFILIATION		SAMPLE CONDITIONS		
				DATE	TIME			DATE	TIME	TEMP IN °C	RECEIVED ON	SEALED COOLER
1	ELC	-1	11-12-23	12:40	11-12-23	10:14	060	26	X			
2	ELC	-2	11-12-23	12:58	11-12-23	10:34	075	15	X			
3	ELC	-3	11-12-23	13:00	11-12-23	10:45	078	05	X			
4	ELC	-4	11-12-23	13:15	11-12-23	09:24	077	06	X			
5	ELC	-5	11-12-23	13:20	11-12-23	11:03	074	17	X			
6	ELC	-6	11-12-23	13:30	11-12-23	12:03	076	32	X			
7	ELC	-7	11-12-23	13:40	11-12-23	11:16	076	76	X			
8	ELC	-8	11-12-23	13:50	11-12-23	11:23	075	13	X			
9	ELC	-9	11-12-23	14:00	11-12-23	11:30	075	26	X			
10	ELC	-10	11-12-23	14:41	11-12-23	09:46	079	56	X			
11	ELC	-11	11-12-23	15:01	11-12-23	10:46	079	98	X			
12												

Comments:
 R01 X03-2023112
 Summa Can # 5532

Method: TO-15 AIR (NOCA)
Method: [blank]

Program:
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by Site:
 [blank]

Report Level: I ___ II ___ III ___ IV ___ Other ___

Temp in °C: [blank]
Received on: [blank]
Sealed Cooler: [blank]
Samples Intact: [blank]

SAMPLER NAME AND SIGNATURE:
 Signature: [Signature]
 Name: Cassandra Walker
 Date Signed: 11/13/23

FC046Rev.01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6385

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2						
Submission #: <u>23-21442</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: _____ Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>4/13/23</u> Analyst Init <u>WV</u> 1415						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PaA PHENDLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/605.3/805/1A										
QT EPA 515.1/815/1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>GL</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>

Comments: _____
 Sample Numbering Completed By: PPG Date/Time: 4/13/23 1558
 A = Actual / C = Corrected

Rev 23 05/20/22

(S:\WPDoc\Word\Protect_LAB_DOCS\FORMS\ISANRECrv 23)

PACE ANALYTICAL		COOLER RECEIPT FORM			Page <u>2</u> Of <u>2</u>						
Submission #: <u>23-21442</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments:											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: _____ Thermometer ID: _____		Date/Time <u>4/13/23</u>		Analyst Init <u>AWI</u> 1415					
Temperature: (A) <u>Room</u> °C (C) <u>Temp</u> °C											
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE/NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL-504											
QT EPA 505G08.X3081A											
QT EPA 515.18151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER <u>GL</u>											

Comments:
 Sample Numbering Completed By: AWI Date/Time: 4/13/23 1550
 A = Actual / C = Corrected Rev 23 05/20/22 [S:\P\Dev\Work\PerfectLAB_DOC\FORMS\SANRIO.cdw 23]



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321442-01	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 12:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-02	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 12:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-03	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-04	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-05	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-06	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-07	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321442-08	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-09	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 14:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231112	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-10	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231112-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2321442-11	COC Number:	---	Receive Date:	11/13/2023 14:15
	Project Number:	---	Sampling Date:	11/12/2023 13:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231112-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-01		Client Sample Name: ROUX07-20231112, 11/12/2023 12:40:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.9	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.41	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.81	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.31	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	99.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-01	Client Sample Name: ROUX07-20231112, 11/12/2023 12:40:00PM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/14/23 08:51	11/14/23 20:45	BEP	MS-A2	1	B178312 EPA TO-15

DCN = Data Continuation Number

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-02		Client Sample Name: ROUX06-20231112, 11/12/2023 12:50:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.65	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.45	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.36	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	110	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-02	Client Sample Name: ROUX06-20231112, 11/12/2023 12:50:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/14/23 08:51	11/14/23 21:29	BEP	MS-A2	1	B178312 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-03		Client Sample Name: ROUXB02-20231112, 11/12/2023 1:00:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.74	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.2	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.51	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.69	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-03	Client Sample Name: ROUXB02-20231112, 11/12/2023 1:00:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/14/23 08:51	11/14/23 22:13		BEP	MS-A2	1	B178312	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-04		Client Sample Name: ROUX05-20231112, 11/12/2023 1:13:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.50	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.24	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.27	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.95	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.99	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.33	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	111	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-04	Client Sample Name: ROUX05-20231112, 11/12/2023 1:13:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/14/23 08:51	11/14/23 22:57	BEP	MS-A2	1	B178312 EPA TO-15

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Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321442-05							
Client Sample Name:	ROUXB01-20231112, 11/12/2023 1:20:00PM, Cassandra Walker							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.45	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.18	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.72	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.40	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.54	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	105	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-05	Client Sample Name: ROUXB01-20231112, 11/12/2023 1:20:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/14/23 08:51	11/14/23	23:42	BEP	MS-A2	1	B178312	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-06		Client Sample Name: ROUX04-20231112, 11/12/2023 1:30:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.76	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.89	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.32	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.42	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-06	Client Sample Name: ROUX04-20231112, 11/12/2023 1:30:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/14/23 08:51	11/15/23 00:26		BEP	MS-A2	1	B178312	EPA TO-15

DCN = Data Continuation Number



Roux Associates, Inc -Long Beach
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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-07		Client Sample Name: ROUX02-20231112, 11/12/2023 1:40:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.45	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.37	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	96.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-07	Client Sample Name: ROUX02-20231112, 11/12/2023 1:40:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/14/23 08:51	11/15/23 01:10	BEP	MS-A2	1	B178312 EPA TO-15

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Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321442-08							
Client Sample Name:	ROUX03-20231112, 11/12/2023 1:50:00PM, Cassandra Walker							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.97	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.55	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.78	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-08	Client Sample Name: ROUX03-20231112, 11/12/2023 1:50:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/14/23 08:51	11/15/23 01:54	BEP	MS-A2	1	B178312 EPA TO-15

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321442-09							
Client Sample Name:	ROUX01-20231112, 11/12/2023 2:00:00PM, Cassandra Walker							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.39	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.66	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.6	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.38	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.52	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-09	Client Sample Name: ROUX01-20231112, 11/12/2023 2:00:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/14/23 08:51	11/15/23 02:38		BEP	MS-A2	1	B178312	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-10		Client Sample Name: ROUX02-20231112-D, 11/12/2023 1:41:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.60	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.45	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.37	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-10	Client Sample Name: ROUX02-20231112-D, 11/12/2023 1:41:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/14/23 08:51	11/15/23 03:21		BEP	MS-A2	1	B178312	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321442-11		Client Sample Name: ROUXB02-20231112-D, 11/12/2023 1:01:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.77	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.19	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.65	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.24	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.89	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321442-11	Client Sample Name: ROUXB02-20231112-D, 11/12/2023 1:01:00PM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/14/23 08:51	11/15/23 04:05	BEP	MS-A2	1	B178312 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178312							
Benzene	B178312-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B178312-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B178312-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B178312-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B178312-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B178312-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B178312-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B178312-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B178312-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B178312-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B178312-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B178312-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B178312-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B178312-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B178312-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B178312-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B178312-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B178312-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B178312-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B178312-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B178312-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B178312-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B178312-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B178312-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B178312-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B178312-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B178312-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B178312-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B178312-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B178312-BLK1	88.5	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B178312-BLK1	PB	EPA-TO-15-SIM	11/14/23	11/14/23 20:01	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178312											
Benzene	B178312-BS1	LCS	0.31909	0.31948	ug/m3	99.9		70 - 130			1
	B178312-BSD1	LCSD	0.33510	0.31948	ug/m3	105	4.9	70 - 130	30		2
Benzyl chloride	B178312-BS1	LCS	0.66874	0.51772	ug/m3	129		70 - 130			1
	B178312-BSD1	LCSD	0.61428	0.51772	ug/m3	119	8.5	70 - 130	30		2
Carbon tetrachloride	B178312-BS1	LCS	0.73520	0.62913	ug/m3	117		70 - 130			1
	B178312-BSD1	LCSD	0.74181	0.62913	ug/m3	118	0.9	70 - 130	30		2
Chlorobenzene	B178312-BS1	LCS	0.52301	0.46036	ug/m3	114		70 - 130			1
	B178312-BSD1	LCSD	0.51491	0.46036	ug/m3	112	1.6	70 - 130	30		2
Chloroform	B178312-BS1	LCS	0.55295	0.48825	ug/m3	113		70 - 130			1
	B178312-BSD1	LCSD	0.55671	0.48825	ug/m3	114	0.7	70 - 130	30		2
1,2-Dibromoethane	B178312-BS1	LCS	0.91026	0.76835	ug/m3	118		70 - 130			1
	B178312-BSD1	LCSD	0.84787	0.76835	ug/m3	110	7.1	70 - 130	30		2
1,2-Dichlorobenzene	B178312-BS1	LCS	0.70537	0.60124	ug/m3	117		70 - 130			1
	B178312-BSD1	LCSD	0.70308	0.60124	ug/m3	117	0.3	70 - 130	30		2
1,3-Dichlorobenzene	B178312-BS1	LCS	0.73705	0.60124	ug/m3	123		70 - 130			1
	B178312-BSD1	LCSD	0.70633	0.60124	ug/m3	117	4.3	70 - 130	30		2
1,4-Dichlorobenzene	B178312-BS1	LCS	0.77187	0.60124	ug/m3	128		70 - 130			1
	B178312-BSD1	LCSD	0.72870	0.60124	ug/m3	121	5.8	70 - 130	30		2
1,1-Dichloroethane	B178312-BS1	LCS	0.42336	0.40474	ug/m3	105		70 - 130			1
	B178312-BSD1	LCSD	0.43655	0.40474	ug/m3	108	3.1	70 - 130	30		2
1,2-Dichloroethane	B178312-BS1	LCS	0.46602	0.40474	ug/m3	115		70 - 130			1
	B178312-BSD1	LCSD	0.46950	0.40474	ug/m3	116	0.7	70 - 130	30		2
1,1-Dichloroethene	B178312-BS1	LCS	0.38317	0.39649	ug/m3	96.6		70 - 130			1
	B178312-BSD1	LCSD	0.39205	0.39649	ug/m3	98.9	2.3	70 - 130	30		2
cis-1,2-Dichloroethene	B178312-BS1	LCS	0.40522	0.39649	ug/m3	102		70 - 130			1
	B178312-BSD1	LCSD	0.41604	0.39649	ug/m3	105	2.6	70 - 130	30		2
Tetrachloroethene	B178312-BS1	LCS	0.81072	0.67825	ug/m3	120		70 - 130			1
	B178312-BSD1	LCSD	0.77321	0.67825	ug/m3	114	4.7	70 - 130	30		2
Toluene	B178312-BS1	LCS	0.40695	0.37684	ug/m3	108		70 - 130			1
	B178312-BSD1	LCSD	0.40285	0.37684	ug/m3	107	1.0	70 - 130	30		2
1,1,1-Trichloroethane	B178312-BS1	LCS	0.62643	0.54562	ug/m3	115		70 - 130			1
	B178312-BSD1	LCSD	0.63095	0.54562	ug/m3	116	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B178312-BS1	LCS	0.63008	0.54562	ug/m3	115		70 - 130			1
	B178312-BSD1	LCSD	0.60629	0.54562	ug/m3	111	3.8	70 - 130	30		2
Trichloroethene	B178312-BS1	LCS	0.60820	0.53737	ug/m3	113		70 - 130			1
	B178312-BSD1	LCSD	0.60643	0.53737	ug/m3	113	0.3	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:20
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178312											
Vinyl chloride	B178312-BS1	LCS	0.26147	0.25562	ug/m3	102		70 - 130			1
	B178312-BSD1	LCSD	0.26615	0.25562	ug/m3	104	1.8	70 - 130	30		2
p- & m-Xylenes	B178312-BS1	LCS	0.90525	0.86843	ug/m3	104		70 - 130			1
	B178312-BSD1	LCSD	0.90216	0.86843	ug/m3	104	0.3	70 - 130	30		2
o-Xylene	B178312-BS1	LCS	0.47112	0.43421	ug/m3	108		70 - 130			1
	B178312-BSD1	LCSD	0.45783	0.43421	ug/m3	105	2.9	70 - 130	30		2
Total Xylenes	B178312-BS1	LCS	1.3764	1.3026	ug/m3	106		70 - 130			1
	B178312-BSD1	LCSD	1.3600	1.3026	ug/m3	104	1.2	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B178312-BS1	LCS	3.66	3.58	ug/m3	102		50 - 150			1
	B178312-BSD1	LCSD	3.61	3.58	ug/m3	101	1.3	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B178312-BS1	LCS	EPA-TO-15-SIM	11/14/23	11/14/23	18:46	BEP	MS-A2	1
2	B178312-BSD1	LCSD	EPA-TO-15-SIM	11/14/23	11/14/23	19:26	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/29/2023 17:20
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit



Date of Report: 11/21/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.00001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2321654
Invoice ID: B487072

Enclosed are the results of analyses for samples received by the laboratory on 11/15/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analyti
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must b

2321654

23-21654

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Required Client Information:	
Company:	ROUX	Report To:	A. MCGUIRE	Attention:	ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)	Company Name:	ROUX
Address:	5150 E PCH, STE 450 LONG BEACH, CA 90804	Copy To:		Address:	9150 E PCH #450, LONG BEACH, CA 90804	Purchase Order No.:	
Email To:	AMCGUIRE@ROUXINC.COM	Project Name:	CHICUITA CANYON	Phone:	662-446-8624	Pace Project Manager/Sales Rep.:	Brianna Schultz
Phone:	662-446-8624	Requested Date/Time:	2471.00011003	Flow Profile #:		Location of Sampling by State:	IL ___ IN ___ IV ___ Other ___
Report Level:	IL ___ IN ___ IV ___ Other ___	Method:	TO-15 SIM (NOC)	Program:	<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Material Used:	<input type="checkbox"/> PVC <input type="checkbox"/> PTFE <input type="checkbox"/> PFA <input type="checkbox"/> PEEK <input type="checkbox"/> Other:
ITEM #	AIR SAMPLE ID Sample IDs MUST BE UNIQUE	COLLECTED		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
		DATE	TIME	DATE	TIME	Temp in °C	Received on top
1	ROUX07-2023 1114	11/14/23	1245	11-15-23	09:09	11-15-23	12:28
2	ROUX06-2023 1114	11/14/23	1301	11-15-23	08:20	11-15-23	12:28
3	ROUX02-2023 1114	11/14/23	1520	11-15-23	10:22	11-15-23	19:16
4	ROUX05-2023 1114	11/14/23	1336	11-15-23	09:40	11-15-23	19:16
5	ROUX01-2023 1114	11/14/23	1351	11-15-23	09:50	11-15-23	19:16
6	ROUX04-2023 1114	11/14/23	1415	11-15-23	09:59	11-15-23	19:16
7	ROUX02-2023 1114	11/14/23	1424	11-15-23	10:50	11-15-23	19:16
8	ROUX03-2023 1114	11/14/23	1431	11-15-23	10:57	11-15-23	19:16
9	ROUX01-2023 1114	11/14/23	1442	11-15-23	10:18	11-15-23	19:16
10	ROUX01 -2023 1114 -D	11/14/23	1443	11-15-23	12:02	11-15-23	19:16
11	ROUX02 -2023 1114 -D	11/14/23	1321	11-15-23	10:33	11-15-23	19:16
12							

CHK BY **AM** DISTRIBUTION
SUB OUT

SAMPLER NAME AND SIGNATURE
FIRST NAME OF SAMPLER: Peter Grimm
SIGNATURE OF SAMPLER: [Signature]
DATE SIGNED (MM/DD/YYYY): 11/14/23

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2						
Submission #: <u>23-21654</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
<input checked="" type="checkbox"/> COC Received <input type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>ROOM</u> °C / (C) <u>temp</u> °C		Date/Time <u>11/15/23</u> Analyst Init <u>MPI 1910</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: AKG Date/Time: 11/15/23 2:00
 A = Actual / C = Corrected

Rev 23 05/20/22

[S:\P\Doc\Word\Feech\LAB_DOC\FORMS\SUMMAREV 23]

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>	
Submission #: <u>23-21654</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S <input checked="" type="checkbox"/>
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>ROOM</u> °C / (C) <u>temp</u> °C		Date/Time <u>11/15/23</u> Analyst Init <u>MPI 1910</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664D										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 584										
QT EPA 508/08.3/081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	<u>A</u>									

Comments: _____
 Sample Numbering Completed By: PKS Date/Time: 11/15/23 9:00
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321654-01	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 12:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-02	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 13:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-03	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 13:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-04	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 13:36
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-05	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 13:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-06	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 14:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-07	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 14:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2321654-08	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 14:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-09	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 14:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231114	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-10	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 14:43
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231114-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2321654-11	COC Number:	---	Receive Date:	11/15/2023 19:10
	Project Number:	---	Sampling Date:	11/14/2023 13:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231114-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-01		Client Sample Name: ROUX07-20231114, 11/14/2023 12:45:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.98	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.9	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.75	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.84	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	3.9	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	3.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	1.0	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	4.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	85.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-01	Client Sample Name: ROUX07-20231114, 11/14/2023 12:45:00PM, Peter Grimmert								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	11/15/23 20:05	11/16/23 10:07	BEP	MS-A2	1	B178396	EPA TO-15	
2	EPA-TO-15-SIM	11/15/23 20:05	11/16/23 15:19	BEP	MS-A2	10	B178484	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-02		Client Sample Name: ROUX06-20231114, 11/14/2023 1:01:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.70	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.26	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.87	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.30	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-02	Client Sample Name: ROUX06-20231114, 11/14/2023 1:01:00PM, Peter Grimmert
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/15/23 20:05	11/16/23 06:31	BEP	MS-A2	1	B178396 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-03		Client Sample Name: ROUXB02-20231114, 11/14/2023 1:20:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.80	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.57	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.24	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.050	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.26	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.062	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.7	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.92	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.37	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-03	Client Sample Name: ROUXB02-20231114, 11/14/2023 1:20:00PM, Peter Grimmert
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23	16:03	BEP	MS-A2	1	B178484	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-04		Client Sample Name: ROUX05-20231114, 11/14/2023 1:36:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.17	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.044	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.65	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.64	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.091	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	2.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.55	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	2.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	108	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-04	Client Sample Name: ROUX05-20231114, 11/14/2023 1:36:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23	16:47	BEP	MS-A2	1	B178484	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-05		Client Sample Name: ROUXB01-20231114, 11/14/2023 1:51:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.14	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.28	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.061	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.66	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.91	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-05	Client Sample Name: ROUXB01-20231114, 11/14/2023 1:51:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23 17:30		BEP	MS-A2	1	B178484	EPA TO-15

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-06		Client Sample Name: ROUX04-20231114, 11/14/2023 2:15:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.15	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.10	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.17	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.1	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.083	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	2.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.51	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	105	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-06	Client Sample Name: ROUX04-20231114, 11/14/2023 2:15:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23 18:15	BEP	MS-A2	1	B178484 EPA TO-15

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-07		Client Sample Name: ROUX02-20231114, 11/14/2023 2:24:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.58	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.15	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.053	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.71	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.29	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.087	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.86	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.31	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-07	Client Sample Name: ROUX02-20231114, 11/14/2023 2:24:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23 18:58	BEP	MS-A2	1	B178484 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-08		Client Sample Name: ROUX03-20231114, 11/14/2023 2:31:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.14	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.057	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.59	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.38	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.085	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.7	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.43	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	109	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-08	Client Sample Name: ROUX03-20231114, 11/14/2023 2:31:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23 19:42	BEP	MS-A2	1	B178484 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-09		Client Sample Name: ROUX01-20231114, 11/14/2023 2:42:00PM, Peter Grimm						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.8	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.035	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.48	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.22	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.085	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.99	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.47	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.65	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-09	Client Sample Name: ROUX01-20231114, 11/14/2023 2:42:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23 20:27	BEP	MS-A2	1	B178484 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-10		Client Sample Name: ROUX01-20231114-D, 11/14/2023 2:43:00PM, Peter Grimm						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.8	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.033	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.48	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.079	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.92	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.48	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.66	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-10	Client Sample Name: ROUX01-20231114-D, 11/14/2023 2:43:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23 21:11		BEP	MS-A2	1	B178484	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321654-11		Client Sample Name: ROUXB02-20231114-D, 11/14/2023 1:21:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.83	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.24	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.057	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.16	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.4	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.26	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.061	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.89	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321654-11	Client Sample Name: ROUXB02-20231114-D, 11/14/2023 1:21:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/16/23 08:39	11/16/23 21:55		BEP	MS-A2	1	B178484	EPA TO-15

DCN = Data Continuation Number

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178396							
Benzene	B178396-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B178396-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B178396-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B178396-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B178396-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B178396-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B178396-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B178396-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B178396-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B178396-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B178396-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B178396-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B178396-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B178396-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B178396-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B178396-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B178396-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B178396-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B178396-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B178396-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B178396-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B178396-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B178396-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B178396-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B178396-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B178396-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B178396-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B178396-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B178396-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B178396-BLK1	83.1	%	50 - 150 (LCL - UCL)			1

QC Batch ID: B178484							
Benzene	B178484-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B178484-BLK1	ND	ug/m3	0.50	0.0052		2

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Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178484							
Carbon tetrachloride	B178484-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B178484-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B178484-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B178484-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B178484-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B178484-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B178484-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B178484-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B178484-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B178484-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B178484-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B178484-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B178484-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B178484-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B178484-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B178484-BLK1	ND	ug/m3	0.050	0.017		2
Tetrachloroethene	B178484-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B178484-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B178484-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B178484-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B178484-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B178484-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B178484-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B178484-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B178484-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B178484-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B178484-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B178484-BLK1	78.0	%	50 - 150 (LCL - UCL)			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B178396-BLK1	PB	EPA-TO-15-SIM	11/15/23	11/15/23 14:42	BEP	MS-A2	1
2	B178484-BLK1	PB	EPA-TO-15-SIM	11/16/23	11/16/23 14:42	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B178396											
Benzene	B178396-BS1	LCS	0.29603	0.31948	ug/m3	92.7		70 - 130			1
	B178396-BSD1	LCSD	0.29603	0.31948	ug/m3	92.7	0	70 - 130	30		2
Benzyl chloride	B178396-BS1	LCS	0.54169	0.51772	ug/m3	105		70 - 130			1
	B178396-BSD1	LCSD	0.50799	0.51772	ug/m3	98.1	6.4	70 - 130	30		2
Carbon tetrachloride	B178396-BS1	LCS	0.67644	0.62913	ug/m3	108		70 - 130			1
	B178396-BSD1	LCSD	0.67707	0.62913	ug/m3	108	0.1	70 - 130	30		2
Chlorobenzene	B178396-BS1	LCS	0.47228	0.46036	ug/m3	103		70 - 130			1
	B178396-BSD1	LCSD	0.47665	0.46036	ug/m3	104	0.9	70 - 130	30		2
Chloroform	B178396-BS1	LCS	0.49826	0.48825	ug/m3	102		70 - 130			1
	B178396-BSD1	LCSD	0.51203	0.48825	ug/m3	105	2.7	70 - 130	30		2
1,2-Dibromoethane	B178396-BS1	LCS	0.82582	0.76835	ug/m3	107		70 - 130			1
	B178396-BSD1	LCSD	0.80876	0.76835	ug/m3	105	2.1	70 - 130	30		2
1,2-Dichlorobenzene	B178396-BS1	LCS	0.62709	0.60124	ug/m3	104		70 - 130			1
	B178396-BSD1	LCSD	0.62769	0.60124	ug/m3	104	0.1	70 - 130	30		2
1,3-Dichlorobenzene	B178396-BS1	LCS	0.66683	0.60124	ug/m3	111		70 - 130			1
	B178396-BSD1	LCSD	0.65517	0.60124	ug/m3	109	1.8	70 - 130	30		2
1,4-Dichlorobenzene	B178396-BS1	LCS	0.61104	0.60124	ug/m3	102		70 - 130			1
	B178396-BSD1	LCSD	0.63881	0.60124	ug/m3	106	4.4	70 - 130	30		2
1,1-Dichloroethane	B178396-BS1	LCS	0.38406	0.40474	ug/m3	94.9		70 - 130			1
	B178396-BSD1	LCSD	0.39414	0.40474	ug/m3	97.4	2.6	70 - 130	30		2
1,2-Dichloroethane	B178396-BS1	LCS	0.43376	0.40474	ug/m3	107		70 - 130			1
	B178396-BSD1	LCSD	0.43319	0.40474	ug/m3	107	0.1	70 - 130	30		2
1,1-Dichloroethene	B178396-BS1	LCS	0.35942	0.39649	ug/m3	90.6		70 - 130			1
	B178396-BSD1	LCSD	0.36359	0.39649	ug/m3	91.7	1.2	70 - 130	30		2
cis-1,2-Dichloroethene	B178396-BS1	LCS	0.36707	0.39649	ug/m3	92.6		70 - 130			1
	B178396-BSD1	LCSD	0.35954	0.39649	ug/m3	90.7	2.1	70 - 130	30		2
Tetrachloroethene	B178396-BS1	LCS	0.72919	0.67825	ug/m3	108		70 - 130			1
	B178396-BSD1	LCSD	0.73123	0.67825	ug/m3	108	0.3	70 - 130	30		2
Toluene	B178396-BS1	LCS	0.36999	0.37684	ug/m3	98.2		70 - 130			1
	B178396-BSD1	LCSD	0.37326	0.37684	ug/m3	99.0	0.9	70 - 130	30		2
1,1,1-Trichloroethane	B178396-BS1	LCS	0.56974	0.54562	ug/m3	104		70 - 130			1
	B178396-BSD1	LCSD	0.57377	0.54562	ug/m3	105	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B178396-BS1	LCS	0.57230	0.54562	ug/m3	105		70 - 130			1
	B178396-BSD1	LCSD	0.58212	0.54562	ug/m3	107	1.7	70 - 130	30		2
Trichloroethene	B178396-BS1	LCS	0.56193	0.53737	ug/m3	105		70 - 130			1
	B178396-BSD1	LCSD	0.55656	0.53737	ug/m3	104	1.0	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B178396											
Vinyl chloride	B178396-BS1	LCS	0.25625	0.25562	ug/m3	100		70 - 130			1
	B178396-BSD1	LCSD	0.25032	0.25562	ug/m3	97.9	2.3	70 - 130	30		2
p- & m-Xylenes	B178396-BS1	LCS	0.80989	0.86843	ug/m3	93.3		70 - 130			1
	B178396-BSD1	LCSD	0.84615	0.86843	ug/m3	97.4	4.4	70 - 130	30		2
o-Xylene	B178396-BS1	LCS	0.41233	0.43421	ug/m3	95.0		70 - 130			1
	B178396-BSD1	LCSD	0.43130	0.43421	ug/m3	99.3	4.5	70 - 130	30		2
Total Xylenes	B178396-BS1	LCS	1.2222	1.3026	ug/m3	93.8		70 - 130			1
	B178396-BSD1	LCSD	1.2775	1.3026	ug/m3	98.1	4.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B178396-BS1	LCS	3.62	3.58	ug/m3	101		50 - 150			1
	B178396-BSD1	LCSD	3.52	3.58	ug/m3	98.3	2.8	50 - 150			2
QC Batch ID: B178484											
Benzene	B178484-BS1	LCS	0.30698	0.31948	ug/m3	96.1		70 - 130			3
	B178484-BSD1	LCSD	0.30404	0.31948	ug/m3	95.2	1.0	70 - 130	30		4
Benzyl chloride	B178484-BS1	LCS	0.43892	0.51772	ug/m3	84.8		70 - 130		J	3
	B178484-BSD1	LCSD	0.53812	0.51772	ug/m3	104	20.3	70 - 130	30		4
Carbon tetrachloride	B178484-BS1	LCS	0.75043	0.62913	ug/m3	119		70 - 130			3
	B178484-BSD1	LCSD	0.75106	0.62913	ug/m3	119	0.1	70 - 130	30		4
Chlorobenzene	B178484-BS1	LCS	0.52273	0.46036	ug/m3	114		70 - 130			3
	B178484-BSD1	LCSD	0.52227	0.46036	ug/m3	113	0.1	70 - 130	30		4
Chloroform	B178484-BS1	LCS	0.55021	0.48825	ug/m3	113		70 - 130			3
	B178484-BSD1	LCSD	0.54548	0.48825	ug/m3	112	0.9	70 - 130	30		4
1,2-Dibromoethane	B178484-BS1	LCS	0.87653	0.76835	ug/m3	114		70 - 130			3
	B178484-BSD1	LCSD	0.88675	0.76835	ug/m3	115	1.2	70 - 130	30		4
1,2-Dichlorobenzene	B178484-BS1	LCS	0.63947	0.60124	ug/m3	106		70 - 130			3
	B178484-BSD1	LCSD	0.67242	0.60124	ug/m3	112	5.0	70 - 130	30		4
1,3-Dichlorobenzene	B178484-BS1	LCS	0.62775	0.60124	ug/m3	104		70 - 130			3
	B178484-BSD1	LCSD	0.68276	0.60124	ug/m3	114	8.4	70 - 130	30		4
1,4-Dichlorobenzene	B178484-BS1	LCS	0.63027	0.60124	ug/m3	105		70 - 130			3
	B178484-BSD1	LCSD	0.68685	0.60124	ug/m3	114	8.6	70 - 130	30		4
1,1-Dichloroethane	B178484-BS1	LCS	0.42546	0.40474	ug/m3	105		70 - 130			3
	B178484-BSD1	LCSD	0.42801	0.40474	ug/m3	106	0.6	70 - 130	30		4
1,2-Dichloroethane	B178484-BS1	LCS	0.47067	0.40474	ug/m3	116		70 - 130			3
	B178484-BSD1	LCSD	0.46946	0.40474	ug/m3	116	0.3	70 - 130	30		4
1,1-Dichloroethene	B178484-BS1	LCS	0.37247	0.39649	ug/m3	93.9		70 - 130			3
	B178484-BSD1	LCSD	0.37358	0.39649	ug/m3	94.2	0.3	70 - 130	30		4
cis-1,2-Dichloroethene	B178484-BS1	LCS	0.38642	0.39649	ug/m3	97.5		70 - 130			3
	B178484-BSD1	LCSD	0.38242	0.39649	ug/m3	96.5	1.0	70 - 130	30		4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/21/2023 15:14
 Project: Chaquita Canyon Air
 Project Number: 2471.00001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178484											
Tetrachloroethene	B178484-BS1	LCS	0.82537	0.67825	ug/m3	122		70 - 130			3
	B178484-BSD1	LCSD	0.82299	0.67825	ug/m3	121	0.3	70 - 130	30		4
Toluene	B178484-BS1	LCS	0.40360	0.37684	ug/m3	107		70 - 130			3
	B178484-BSD1	LCSD	0.39018	0.37684	ug/m3	104	3.4	70 - 130	30		4
1,1,1-Trichloroethane	B178484-BS1	LCS	0.64007	0.54562	ug/m3	117		70 - 130			3
	B178484-BSD1	LCSD	0.63379	0.54562	ug/m3	116	1.0	70 - 130	30		4
1,1,2-Trichloroethane	B178484-BS1	LCS	0.64132	0.54562	ug/m3	118		70 - 130			3
	B178484-BSD1	LCSD	0.63619	0.54562	ug/m3	117	0.8	70 - 130	30		4
Trichloroethene	B178484-BS1	LCS	0.63668	0.53737	ug/m3	118		70 - 130			3
	B178484-BSD1	LCSD	0.61965	0.53737	ug/m3	115	2.7	70 - 130	30		4
Vinyl chloride	B178484-BS1	LCS	0.27491	0.25562	ug/m3	108		70 - 130			3
	B178484-BSD1	LCSD	0.27558	0.25562	ug/m3	108	0.2	70 - 130	30		4
p- & m-Xylenes	B178484-BS1	LCS	0.84124	0.86843	ug/m3	96.9		70 - 130			3
	B178484-BSD1	LCSD	0.83147	0.86843	ug/m3	95.7	1.2	70 - 130	30		4
o-Xylene	B178484-BS1	LCS	0.43408	0.43421	ug/m3	100		70 - 130			3
	B178484-BSD1	LCSD	0.43226	0.43421	ug/m3	99.6	0.4	70 - 130	30		4
Total Xylenes	B178484-BS1	LCS	1.2753	1.3026	ug/m3	97.9		70 - 130			3
	B178484-BSD1	LCSD	1.2637	1.3026	ug/m3	97.0	0.9	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B178484-BS1	LCS	3.35	3.58	ug/m3	93.7		50 - 150			3
	B178484-BSD1	LCSD	3.46	3.58	ug/m3	96.7	3.1	50 - 150			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B178396-BS1	LCS	EPA-TO-15-SIM	11/15/23	11/15/23	13:26	BEP	MS-A2	1
2	B178396-BSD1	LCSD	EPA-TO-15-SIM	11/15/23	11/15/23	14:07	BEP	MS-A2	1
3	B178484-BS1	LCS	EPA-TO-15-SIM	11/16/23	11/16/23	13:25	BEP	MS-A2	1
4	B178484-BSD1	LCSD	EPA-TO-15-SIM	11/16/23	11/16/23	14:05	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/21/2023 15:14
Project: Chaquita Canyon Air
Project Number: 2471.00001L003
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 11/29/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2321842
Invoice ID: B487382

Enclosed are the results of analyses for samples received by the laboratory on 11/17/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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WSS 11-17-23
2A 6 Boxes
AIR: CHAIN-OF-CUSTODY / Analytical Req
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed as 2321842



2321842

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Required Client Information								
Company: ROUX	Report To: A. MCCLURE	Address: 5150 E PCH, STE 450	Company Name: ROUX	Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)	Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act	Flow Control Number	Method: <input type="checkbox"/> TO-15 SIM (NOCA)							
Address: 5150 E PCH, STE 450	Copy To:	LONG BEACH, CA 90804	Address: 5150 E PCH #450, LONG BEACH, CA 90804		<input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	Summa Can Number	Pace Lab ID							
Email To: AMCCCLURE@ROUXINC.COM	Purchase Order No.:		Pace Quota Reference: 00148152		Location of Sampling by State	Control Field - (psi)								
Phone: 562-448-8824 Fax:	Project Name: CHIQUITA CANYON		Pace Project Manager/Sales Rep: Brianna Schulte		Report Level: I II III IV	Control Field - (psi)								
Requested Due Date (TAT):	Project Number: 2471.0001L003													
ITEM #	Sample ID	Media Code	Container	DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice	Sealed Cooler	Custody	Samples Intact
1	ROUX07-2023 1116	ELC	ELC	11-16-23	1333	11-17-23	1152	11-16-23	1333	11-17-23	11023	1303	11-17-23	1900
2	ROUX06-2023 1116	ELC	ELC	11-16-23	1521	11-17-23	0916	11-16-23	1521	11-17-23	0916	24		
3	ROUXB02-2023 1116	ELC	ELC	11-16-23	1333	11-17-23	1237	11-16-23	1333	11-17-23	1237	29		
4	ROUX05-2023 1116	ELC	ELC	11-16-23	1341	11-17-23	1141	11-16-23	1341	11-17-23	1141	29		
5	ROUXB01-2023 1116	ELC	ELC	11-16-23	1353	11-17-23	1219	11-16-23	1353	11-17-23	1219	29		
6	ROUX04-2023 1116	ELC	ELC	11-16-23	1415	11-17-23	0936	11-16-23	1415	11-17-23	0936	29		
7	ROUX02-2023 1116	ELC	ELC	11-16-23	1420	11-17-23	1017	11-16-23	1420	11-17-23	1017	28		
8	ROUX03-2023 1116	ELC	ELC	11-16-23	1434	11-17-23	1028	11-16-23	1434	11-17-23	1028	28		
9	ROUX01-2023 1116	ELC	ELC	11-16-23	1456	11-17-23	1058	11-16-23	1456	11-17-23	1058	29		
10	ROUX0 2-2023 1116 -0	ELC	ELC	11-16-23	1461	11-17-23	1129	11-16-23	1461	11-17-23	1129	29		
11	ROUXB0 1-2023 1116 -0	ELC	ELC	11-16-23	1354	11-17-23	1220	11-16-23	1354	11-17-23	1220	30		
12														

FC048Rev.01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.8388

Comments: ROUX04 and ROUXB01-0
summas came without tags

SAMPLER NAME AND SIGNATURE
FIRST Name of SAMPLER: Peter Grinnett
SIGNATURE of SAMPLER: [Signature]
DATE of Sample: 11/17/23

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2	
Submission #: <u>2321842</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Containers <u>Small</u> Thermometer ID: _____		Date/Time <u>11/12/23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C		Analyst Init <u>MPI 1900</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
P/A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

CHK BY MPI
 DISTRIBUTION
 SUB-OUT

Comments: _____
 Sample Numbering Completed By: MPI Date/Time: 11/12/23 1932
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 2 Of 2	
Submission #: <u>2321842</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container <u>Summa</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>11/17/23</u> Analyst Init <u>MPL1900</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.38081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A									

Comments: _____ Date/Time: 11/17/23 19:52 Rev 23 06/20/22
 Sample Numbering Completed By: MPL
 A = Actual / C = Corrected [S:\WPDoc\Word\ref\LAB_DOC\CFOR\USAHREC\rev 23]



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
2321842-01	COC Number:	---		Receive Date:	11/17/2023 19:00
	Project Number:	---		Sampling Date:	11/16/2023 13:13
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX07-2023 1116		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
	<hr/>				
2321842-02	COC Number:	---		Receive Date:	11/17/2023 19:00
	Project Number:	---		Sampling Date:	11/16/2023 13:21
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX06-2023 1116		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
	<hr/>				
2321842-03	COC Number:	---		Receive Date:	11/17/2023 19:00
	Project Number:	---		Sampling Date:	11/16/2023 13:31
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB02-2023 1116		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
	<hr/>				
2321842-04	COC Number:	---		Receive Date:	11/17/2023 19:00
	Project Number:	---		Sampling Date:	11/16/2023 13:41
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX05-2023 1116		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
	<hr/>				
2321842-05	COC Number:	---		Receive Date:	11/17/2023 19:00
	Project Number:	---		Sampling Date:	11/16/2023 13:53
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB01-2023 1116		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
	<hr/>				
2321842-06	COC Number:	---		Receive Date:	11/17/2023 19:00
	Project Number:	---		Sampling Date:	11/16/2023 14:13
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX04-2023 1116		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
	<hr/>				
2321842-07	COC Number:	---		Receive Date:	11/17/2023 19:00
	Project Number:	---		Sampling Date:	11/16/2023 14:20
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX02-2023 1116		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
	<hr/>				

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2321842-08	COC Number:	---	Receive Date:	11/17/2023 19:00
	Project Number:	---	Sampling Date:	11/16/2023 14:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-2023 1116	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2321842-09	COC Number:	---	Receive Date:	11/17/2023 19:00
	Project Number:	---	Sampling Date:	11/16/2023 14:36
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-2023 1116	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2321842-10	COC Number:	---	Receive Date:	11/17/2023 19:00
	Project Number:	---	Sampling Date:	11/16/2023 14:21
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-2023 1116-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2321842-11	COC Number:	---	Receive Date:	11/17/2023 19:00
	Project Number:	---	Sampling Date:	11/16/2023 13:54
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-2023 1116-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2321842-01		Client Sample Name:	ROUX07-2023 1116, 11/16/2023 1:13:00PM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.74	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.59	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.22	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.65	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.90	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-01	Client Sample Name: ROUX07-2023 1116, 11/16/2023 1:13:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 16:08	BEP	MS-A2	1	B178631 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-02		Client Sample Name: ROUX06-2023 1116, 11/16/2023 1:21:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.76	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	2.4	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.27	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.79	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.31	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	107	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-02	Client Sample Name: ROUX06-2023 1116, 11/16/2023 1:21:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23	16:52	BEP	MS-A2	1	B178631	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-03		Client Sample Name: ROUXB02-2023 1116, 11/16/2023 1:31:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.90	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.96	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.22	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.62	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.23	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.86	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-03	Client Sample Name: ROUXB02-2023 1116, 11/16/2023 1:31:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 17:36		BEP	MS-A2	1	B178631	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-04		Client Sample Name: ROUX05-2023 1116, 11/16/2023 1:41:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.81	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.64	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.71	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	99.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-04	Client Sample Name: ROUX05-2023 1116, 11/16/2023 1:41:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 18:20	BEP	MS-A2	1	B178631 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-05		Client Sample Name: ROUXB01-2023 1116, 11/16/2023 1:53:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.32	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.19	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.93	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.56	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.22	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.78	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-05	Client Sample Name: ROUXB01-2023 1116, 11/16/2023 1:53:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23	19:05	BEP	MS-A2	1	B178631	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-06		Client Sample Name: ROUX04-2023 1116, 11/16/2023 2:13:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.71	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.7	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.6	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.35	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.7	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.43	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-06	Client Sample Name: ROUX04-2023 1116, 11/16/2023 2:13:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 19:49		BEP	MS-A2	1	B178631	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-07		Client Sample Name: ROUX02-2023 1116, 11/16/2023 2:20:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.88	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.33	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	110	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-07	Client Sample Name: ROUX02-2023 1116, 11/16/2023 2:20:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 20:34		BEP	MS-A2	1	B178631	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-08		Client Sample Name: ROUX03-2023 1116, 11/16/2023 2:30:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.57	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.78	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-08	Client Sample Name: ROUX03-2023 1116, 11/16/2023 2:30:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 21:18	BEP	MS-A2	1	B178631 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-09		Client Sample Name: ROUX01-2023 1116, 11/16/2023 2:36:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.54	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.39	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.74	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.41	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.16	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.57	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-09	Client Sample Name: ROUX01-2023 1116, 11/16/2023 2:36:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 22:02		BEP	MS-A2	1	B178631	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-10		Client Sample Name: ROUX02-2023 1116-D, 11/16/2023 2:21:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.54	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.77	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	96.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-10	Client Sample Name: ROUX02-2023 1116-D, 11/16/2023 2:21:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 22:46	BEP	MS-A2	1	B178631 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2321842-11		Client Sample Name: ROUXB01-2023 1116-D, 11/16/2023 1:54:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.53	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.33	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.97	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.66	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.91	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2321842-11	Client Sample Name: ROUXB01-2023 1116-D, 11/16/2023 1:54:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/18/23 08:44	11/18/23 23:31	BEP	MS-A2	1	B178631 EPA TO-15

DCN = Data Continuation Number

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Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178631							
Benzene	B178631-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B178631-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B178631-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B178631-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B178631-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B178631-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B178631-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B178631-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B178631-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B178631-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B178631-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B178631-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B178631-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B178631-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B178631-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B178631-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B178631-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B178631-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B178631-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B178631-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B178631-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B178631-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B178631-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B178631-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B178631-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B178631-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B178631-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B178631-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B178631-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B178631-BLK1	79.5	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B178631-BLK1	PB	EPA-TO-15-SIM	11/18/23	11/18/23 15:24	BEP	MS-A2	1

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Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B178631											
Benzene	B178631-BS1	LCS	0.31229	0.31948	ug/m3	97.7		70 - 130			1
	B178631-BSD1	LCSD	0.31184	0.31948	ug/m3	97.6	0.1	70 - 130	30		2
Benzyl chloride	B178631-BS1	LCS	0.59372	0.51772	ug/m3	115		70 - 130			1
	B178631-BSD1	LCSD	0.46212	0.51772	ug/m3	89.3	24.9	70 - 130	30	J	2
Carbon tetrachloride	B178631-BS1	LCS	0.73829	0.62913	ug/m3	117		70 - 130			1
	B178631-BSD1	LCSD	0.73338	0.62913	ug/m3	117	0.7	70 - 130	30		2
Chlorobenzene	B178631-BS1	LCS	0.52255	0.46036	ug/m3	114		70 - 130			1
	B178631-BSD1	LCSD	0.50782	0.46036	ug/m3	110	2.9	70 - 130	30		2
Chloroform	B178631-BS1	LCS	0.55016	0.48825	ug/m3	113		70 - 130			1
	B178631-BSD1	LCSD	0.54294	0.48825	ug/m3	111	1.3	70 - 130	30		2
1,2-Dibromoethane	B178631-BS1	LCS	0.87507	0.76835	ug/m3	114		70 - 130			1
	B178631-BSD1	LCSD	0.84664	0.76835	ug/m3	110	3.3	70 - 130	30		2
1,2-Dichlorobenzene	B178631-BS1	LCS	0.66346	0.60124	ug/m3	110		70 - 130			1
	B178631-BSD1	LCSD	0.62835	0.60124	ug/m3	105	5.4	70 - 130	30		2
1,3-Dichlorobenzene	B178631-BS1	LCS	0.69713	0.60124	ug/m3	116		70 - 130			1
	B178631-BSD1	LCSD	0.64927	0.60124	ug/m3	108	7.1	70 - 130	30		2
1,4-Dichlorobenzene	B178631-BS1	LCS	0.70513	0.60124	ug/m3	117		70 - 130			1
	B178631-BSD1	LCSD	0.62029	0.60124	ug/m3	103	12.8	70 - 130	30		2
1,1-Dichloroethane	B178631-BS1	LCS	0.41636	0.40474	ug/m3	103		70 - 130			1
	B178631-BSD1	LCSD	0.42550	0.40474	ug/m3	105	2.2	70 - 130	30		2
1,2-Dichloroethane	B178631-BS1	LCS	0.47096	0.40474	ug/m3	116		70 - 130			1
	B178631-BSD1	LCSD	0.46238	0.40474	ug/m3	114	1.8	70 - 130	30		2
1,1-Dichloroethene	B178631-BS1	LCS	0.38956	0.39649	ug/m3	98.3		70 - 130			1
	B178631-BSD1	LCSD	0.37627	0.39649	ug/m3	94.9	3.5	70 - 130	30		2
cis-1,2-Dichloroethene	B178631-BS1	LCS	0.38048	0.39649	ug/m3	96.0		70 - 130			1
	B178631-BSD1	LCSD	0.38488	0.39649	ug/m3	97.1	1.2	70 - 130	30		2
Tetrachloroethene	B178631-BS1	LCS	0.77619	0.67825	ug/m3	114		70 - 130			1
	B178631-BSD1	LCSD	0.78833	0.67825	ug/m3	116	1.6	70 - 130	30		2
Toluene	B178631-BS1	LCS	0.39765	0.37684	ug/m3	106		70 - 130			1
	B178631-BSD1	LCSD	0.39802	0.37684	ug/m3	106	0.1	70 - 130	30		2
1,1,1-Trichloroethane	B178631-BS1	LCS	0.63374	0.54562	ug/m3	116		70 - 130			1
	B178631-BSD1	LCSD	0.62424	0.54562	ug/m3	114	1.5	70 - 130	30		2
1,1,2-Trichloroethane	B178631-BS1	LCS	0.61377	0.54562	ug/m3	112		70 - 130			1
	B178631-BSD1	LCSD	0.61066	0.54562	ug/m3	112	0.5	70 - 130	30		2
Trichloroethene	B178631-BS1	LCS	0.60519	0.53737	ug/m3	113		70 - 130			1
	B178631-BSD1	LCSD	0.59837	0.53737	ug/m3	111	1.1	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/29/2023 17:37
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178631											
Vinyl chloride	B178631-BS1	LCS	0.27811	0.25562	ug/m3	109		70 - 130			1
	B178631-BSD1	LCSD	0.27560	0.25562	ug/m3	108	0.9	70 - 130	30		2
p- & m-Xylenes	B178631-BS1	LCS	0.87307	0.86843	ug/m3	101		70 - 130			1
	B178631-BSD1	LCSD	0.87272	0.86843	ug/m3	100	0.0	70 - 130	30		2
o-Xylene	B178631-BS1	LCS	0.43743	0.43421	ug/m3	101		70 - 130			1
	B178631-BSD1	LCSD	0.44876	0.43421	ug/m3	103	2.6	70 - 130	30		2
Total Xylenes	B178631-BS1	LCS	1.3105	1.3026	ug/m3	101		70 - 130			1
	B178631-BSD1	LCSD	1.3215	1.3026	ug/m3	101	0.8	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B178631-BS1	LCS	3.53	3.58	ug/m3	98.6		50 - 150			1
	B178631-BSD1	LCSD	3.38	3.58	ug/m3	94.4	4.3	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B178631-BS1	LCS	EPA-TO-15-SIM	11/18/23	11/18/23	14:06	BEP	MS-A2	1
2	B178631-BSD1	LCSD	EPA-TO-15-SIM	11/18/23	11/18/23	14:47	BEP	MS-A2	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/29/2023 17:37
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/06/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2322026
Invoice ID: B487637

Enclosed are the results of analyses for samples received by the laboratory on 11/21/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Quality Control Reports

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2322026

AIR: CHAIN-OF-CUSTODY / A
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant information should be included.



23-22026

Section A Required Client Information: Company: ROUX Address: 5150 E POH, STE 450 LONG BEACH, CA 90804 Email To: AMCGUIRE@ROUXINC.COM Phone: 562-446-8024 Fax: Requested Due Date/TIME:		Section B Project Information: Report To: A. MCGUIRE Copy To: Purchase Order No.: Project Name: CHOLUITA CANYON Project Number: 2471.0001L003		Section C Invoice Information: Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM) Company Name: ROUX Address: 5150 E POH #450, LONG BEACH, CA 90804 POC Name: AMCGUIRE POC Phone: 562-446-8024 POC Email: AMCGUIRE@ROUXINC.COM Pace Project Manager/Sales Rep: Brianna Schultz Pace Profile #:		Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State: _____ Reporting Method: <input type="checkbox"/> Other <input type="checkbox"/> Other										
Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE		COLLECTED MEDIA CODE DATE TIME DATE TIME 11/18/23 12:22 11/18/23 08:09 11/18/23 12:30 11/18/23 10:06 11/18/23 12:40 11/18/23 08:42 11/18/23 12:50 11/18/23 10:28 11/18/23 12:58 11/18/23 10:17 11/18/23 13:10 11/18/23 11:27 11/18/23 13:15 11/18/23 09:10 11/18/23 13:20 11/18/23 09:17 11/18/23 13:25 11/18/23 09:51 11/18/23 12:23 11/18/23 08:08 11/18/23 12:59 11/18/23 08:59		RELINQUISHED BY / AFFILIATION DATE TIME DATE TIME 11/18/23 12:24 11/18/23 12:24 11/18/23 12:30 11/18/23 12:30 11/18/23 12:40 11/18/23 12:40 11/18/23 12:50 11/18/23 12:50 11/18/23 12:58 11/18/23 12:58 11/18/23 13:10 11/18/23 13:10 11/18/23 13:15 11/18/23 13:15 11/18/23 13:20 11/18/23 13:20 11/18/23 13:25 11/18/23 13:25		ACCEPTED BY / AFFILIATION DATE TIME DATE TIME 11/18/23 12:24 11/18/23 12:24 11/18/23 12:30 11/18/23 12:30 11/18/23 12:40 11/18/23 12:40 11/18/23 12:50 11/18/23 12:50 11/18/23 12:58 11/18/23 12:58 11/18/23 13:10 11/18/23 13:10 11/18/23 13:15 11/18/23 13:15 11/18/23 13:20 11/18/23 13:20 11/18/23 13:25 11/18/23 13:25										
ITEM #	ROUX07-2023 1118	ROUX08-2023 1118	ROUX09-2023 1118	ROUX10-2023 1118	ROUX11-2023 1118	ROUX12-2023 1118	ROUX13-2023 1118	ROUX14-2023 1118	ROUX15-2023 1118	ROUX16-2023 1118	ROUX17-2023 1118	ROUX18-2023 1118	ROUX19-2023 1118	ROUX20-2023 1118	ROUX21-2023 1118	ROUX22-2023 1118
Media Code	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
Summa Can Number	0425	43535	43531	435-	384-	42972	43003	4585	23810	43527	43878	45180	43664			
Control Number	03804	13900	03875	13899	13898	13896	03803	03805	05982	03878	03664					
Center Pressure (Initial Field - psig)	-30	-29	-29	-30	-30	-30	-30	-30	-26	-30	-30	-30	-30			
Center Pressure (Final Field - psig)	-6	-5	-4	-6	-5	-6	-5	-6	-1	-6	-6	-6	-6			
Flow Control Number																
Temp in °C																
Received on	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Custody Sealed Cooler	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
Temp in °C																

Comments:

CHK BY: [Signature] DISTRIBUTION [Signature] SUB OUT [Signature]

SAMPLER NAME AND SIGNATURE: Peter Grimmerett
 DATE SIGNATURE OBTAINED: 11/18/23

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2							
Submission #: <u>23-22026</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>11/2/23</u> 1930 Analyst Init <u>PRE</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PTA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 518/518.3/518.1A											
QT EPA 515.1/515.1A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8915M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: RPZ Date/Time: 11/2/23 1935
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>						
Submission #: <u>13-22026</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments:										
All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>11/21/23 1930</u>						
Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C				Analyst Init <u>PRE</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/605.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz ZAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 11/21/23 1935
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2322026-01	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 08:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-02	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 10:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-03	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 08:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-04	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 10:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-05	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 10:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXBO1-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-06	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 11:27
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-07	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 09:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2322026-08	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 09:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-09	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 09:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231118	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-10	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 08:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231118-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322026-11	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/19/2023 08:59
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231118-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-01		Client Sample Name: ROUX07-20231118, 11/19/2023 8:09:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.49	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.44	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.098	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.079	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.24	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.079	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.037	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.56	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.22	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.082	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.31	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	85.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-01	Client Sample Name: ROUX07-20231118, 11/19/2023 8:09:00AM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/22/23 08:03	11/22/23 19:58	BEP	MS-A1	1	B178937 EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-02		Client Sample Name: ROUX06-20231118, 11/19/2023 10:06:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.66	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.095	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.079	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.35	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.53	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.33	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.45	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-02	Client Sample Name: ROUX06-20231118, 11/19/2023 10:06:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:03	11/22/23 20:36		BEP	MS-A1	1	B178937	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-03		Client Sample Name: ROUXB02-20231118, 11/19/2023 8:42:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.48	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.10	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.081	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.75	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.069	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.42	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.19	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.071	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.26	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-03	Client Sample Name: ROUXB02-20231118, 11/19/2023 8:42:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:03	11/22/23	21:14	BEP	MS-A1	1	B178937	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-04		Client Sample Name: ROUX05-20231118, 11/19/2023 10:28:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.90	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.097	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.079	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.22	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.092	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.32	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.20	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.070	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.27	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-04	Client Sample Name: ROUX05-20231118, 11/19/2023 10:28:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:03	11/22/23	21:51	BEP	MS-A1	1	B178937	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-05		Client Sample Name: ROUXBO1-20231118, 11/19/2023 10:17:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.54	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.077	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.076	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.19	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.062	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.33	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.16	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.058	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.22	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-05	Client Sample Name: ROUXBO1-20231118, 11/19/2023 10:17:00AM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/22/23 08:03	11/22/23 22:29	BEP	MS-A1	1	B178937 EPA TO-15

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-06		Client Sample Name: ROUX04-20231118, 11/19/2023 11:27:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.47	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.44	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.078	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.077	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.25	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.070	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.30	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.19	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.070	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.26	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-06	Client Sample Name: ROUX04-20231118, 11/19/2023 11:27:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:03	11/22/23	23:07	BEP	MS-A1	1	B178937	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-07		Client Sample Name: ROUX02-20231118, 11/19/2023 9:10:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.077	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.078	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.17	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.087	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.35	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.23	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.082	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.31	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-07	Client Sample Name: ROUX02-20231118, 11/19/2023 9:10:00AM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/22/23 08:03	11/22/23 23:44	BEP	MS-A1	1	B178937 EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-08		Client Sample Name: ROUX03-20231118, 11/19/2023 9:17:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.36	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.094	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.077	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.19	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.055	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.092	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.30	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.13	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.053	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.19	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-08	Client Sample Name: ROUX03-20231118, 11/19/2023 9:17:00AM, Client							
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:03	11/23/23 00:22	BEP	MS-A1	1	B178937	EPA TO-15

DCN = Data Continuation Number



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-09		Client Sample Name: ROUX01-20231118, 11/19/2023 9:51:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.51	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.45	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.075	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.076	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.11	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.18	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.29	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.26	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.050	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.31	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-09	Client Sample Name: ROUX01-20231118, 11/19/2023 9:51:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:03	11/23/23 01:00		BEP	MS-A1	1	B178937	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-10		Client Sample Name: ROUX07-20231118-D, 11/19/2023 8:08:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.55	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.45	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.45	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.083	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	4.1	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	2
Ethylbenzene	0.10	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.077	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.94	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.29	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.11	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.40	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	85.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-10	Client Sample Name: ROUX07-20231118-D, 11/19/2023 8:08:00AM, Client								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	11/22/23 08:03	11/23/23 01:37	BEP	MS-A1	1	B178937	EPA TO-15	
2	EPA-TO-15-SIM	12/01/23 08:13	12/02/23 01:23	BEP	MS-A1	10	B179281	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322026-11		Client Sample Name: ROUXB01-20231118-D, 11/19/2023 8:59:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.45	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.079	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.078	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.22	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.038	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.74	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.43	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.57	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322026-11	Client Sample Name: ROUXB01-20231118-D, 11/19/2023 8:59:00AM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:03	11/23/23 02:15		BEP	MS-A1	1	B178937	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178937							
Benzene	B178937-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B178937-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B178937-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B178937-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B178937-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B178937-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B178937-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B178937-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B178937-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B178937-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B178937-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B178937-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B178937-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B178937-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B178937-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B178937-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B178937-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B178937-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B178937-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B178937-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B178937-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B178937-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B178937-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B178937-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B178937-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B178937-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B178937-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B178937-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B178937-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B178937-BLK1	83.5	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B179281							
1,1-Difluoroethane	B179281-BLK1	ND	ug/m3	5.0	0.0027		2
4-Bromofluorobenzene (Surrogate)	B179281-BLK1	84.7	%	50 - 150 (LCL - UCL)			2

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B178937-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/22/23	19:21	BEP	MS-A1	1
2	B179281-BLK1	PB	EPA-TO-15-SIM	12/01/23	12/01/23	15:17	BEP	MS-A1	1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B178937											
Benzene	B178937-BS1	LCS	0.28526	0.31948	ug/m3	89.3		70 - 130			1
	B178937-BSD1	LCSD	0.29101	0.31948	ug/m3	91.1	2.0	70 - 130	30		2
Benzyl chloride	B178937-BS1	LCS	0.61790	0.51772	ug/m3	119		70 - 130			1
	B178937-BSD1	LCSD	0.63861	0.51772	ug/m3	123	3.3	70 - 130	30		2
Carbon tetrachloride	B178937-BS1	LCS	0.64700	0.62913	ug/m3	103		70 - 130			1
	B178937-BSD1	LCSD	0.64788	0.62913	ug/m3	103	0.1	70 - 130	30		2
Chlorobenzene	B178937-BS1	LCS	0.50478	0.46036	ug/m3	110		70 - 130			1
	B178937-BSD1	LCSD	0.50699	0.46036	ug/m3	110	0.4	70 - 130	30		2
Chloroform	B178937-BS1	LCS	0.48630	0.48825	ug/m3	99.6		70 - 130			1
	B178937-BSD1	LCSD	0.49475	0.48825	ug/m3	101	1.7	70 - 130	30		2
1,2-Dibromoethane	B178937-BS1	LCS	0.86616	0.76835	ug/m3	113		70 - 130			1
	B178937-BSD1	LCSD	0.86685	0.76835	ug/m3	113	0.1	70 - 130	30		2
1,2-Dichlorobenzene	B178937-BS1	LCS	0.69449	0.60124	ug/m3	116		70 - 130			1
	B178937-BSD1	LCSD	0.69845	0.60124	ug/m3	116	0.6	70 - 130	30		2
1,3-Dichlorobenzene	B178937-BS1	LCS	0.72184	0.60124	ug/m3	120		70 - 130			1
	B178937-BSD1	LCSD	0.74024	0.60124	ug/m3	123	2.5	70 - 130	30		2
1,4-Dichlorobenzene	B178937-BS1	LCS	0.73880	0.60124	ug/m3	123		70 - 130			1
	B178937-BSD1	LCSD	0.73261	0.60124	ug/m3	122	0.8	70 - 130	30		2
1,1-Dichloroethane	B178937-BS1	LCS	0.40041	0.40474	ug/m3	98.9		70 - 130			1
	B178937-BSD1	LCSD	0.40150	0.40474	ug/m3	99.2	0.3	70 - 130	30		2
1,2-Dichloroethane	B178937-BS1	LCS	0.39373	0.40474	ug/m3	97.3		70 - 130			1
	B178937-BSD1	LCSD	0.40114	0.40474	ug/m3	99.1	1.9	70 - 130	30		2
1,1-Dichloroethene	B178937-BS1	LCS	0.36089	0.39649	ug/m3	91.0		70 - 130			1
	B178937-BSD1	LCSD	0.36220	0.39649	ug/m3	91.4	0.4	70 - 130	30		2
cis-1,2-Dichloroethene	B178937-BS1	LCS	0.35685	0.39649	ug/m3	90.0		70 - 130			1
	B178937-BSD1	LCSD	0.35237	0.39649	ug/m3	88.9	1.3	70 - 130	30		2
Tetrachloroethene	B178937-BS1	LCS	0.76744	0.67825	ug/m3	113		70 - 130			1
	B178937-BSD1	LCSD	0.76724	0.67825	ug/m3	113	0.0	70 - 130	30		2
Toluene	B178937-BS1	LCS	0.37289	0.37684	ug/m3	99.0		70 - 130			1
	B178937-BSD1	LCSD	0.37730	0.37684	ug/m3	100	1.2	70 - 130	30		2
1,1,1-Trichloroethane	B178937-BS1	LCS	0.55359	0.54562	ug/m3	101		70 - 130			1
	B178937-BSD1	LCSD	0.55080	0.54562	ug/m3	101	0.5	70 - 130	30		2
1,1,2-Trichloroethane	B178937-BS1	LCS	0.63390	0.54562	ug/m3	116		70 - 130			1
	B178937-BSD1	LCSD	0.63543	0.54562	ug/m3	116	0.2	70 - 130	30		2
Trichloroethene	B178937-BS1	LCS	0.57338	0.53737	ug/m3	107		70 - 130			1
	B178937-BSD1	LCSD	0.57897	0.53737	ug/m3	108	1.0	70 - 130	30		2

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 Long Beach, CA 90804

Reported: 12/06/2023 10:41
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178937											
Vinyl chloride	B178937-BS1	LCS	0.25572	0.25562	ug/m3	100		70 - 130			1
	B178937-BSD1	LCSD	0.25694	0.25562	ug/m3	101	0.5	70 - 130	30		2
p- & m-Xylenes	B178937-BS1	LCS	0.84524	0.86843	ug/m3	97.3		70 - 130			1
	B178937-BSD1	LCSD	0.85735	0.86843	ug/m3	98.7	1.4	70 - 130	30		2
o-Xylene	B178937-BS1	LCS	0.42049	0.43421	ug/m3	96.8		70 - 130			1
	B178937-BSD1	LCSD	0.42670	0.43421	ug/m3	98.3	1.5	70 - 130	30		2
Total Xylenes	B178937-BS1	LCS	1.2657	1.3026	ug/m3	97.2		70 - 130			1
	B178937-BSD1	LCSD	1.2841	1.3026	ug/m3	98.6	1.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B178937-BS1	LCS	3.64	3.58	ug/m3	102		50 - 150			1
	B178937-BSD1	LCSD	3.62	3.58	ug/m3	101	0.6	50 - 150			2
QC Batch ID: B179281											
4-Bromofluorobenzene (Surrogate)	B179281-BS1	LCS	3.60	3.58	ug/m3	101		50 - 150			3
	B179281-BSD1	LCSD	3.63	3.58	ug/m3	101	0.8	50 - 150			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B178937-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/22/23	18:12	BEP	MS-A1	1
2	B178937-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/22/23	18:44	BEP	MS-A1	1
3	B179281-BS1	LCS	EPA-TO-15-SIM	12/01/23	12/01/23	14:08	BEP	MS-A1	1
4	B179281-BSD1	LCSD	EPA-TO-15-SIM	12/01/23	12/01/23	14:41	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:41
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 11/27/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2322027
Invoice ID: B487638

Enclosed are the results of analyses for samples received by the laboratory on 11/21/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / AN
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant field

2322027

Page: 1 of 1

Section A Required Client Information:
Company: ROUX
Address: 5150 E PCH, STE 450
LONG BEACH, CA 90804
Email To: AMCGUIRE@ROUXINC.COM
Phone: 562-446-8624 Fax:
(Requested Date Data/AT):

Section B Required Project Information:
Report To: A. MCCLURE
Copy To:
Purchase Order No.:
Project Name: CHILQUITA CANYON
Project Number: 2471.0001L003

Section C Invoice Information:
Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)
Company Name: ROUX
Address: 5150 E PCH #450, LONG BEACH, CA 90804
Pace Quote Reference: 00148152
Pace Project Manager/Sales Rep: Brianna Schute
Pace Profile #:

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	AIR SAMPLE ID	Media Code	Flow Control Number	COLLECTED		RELINQUISHED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS					
				Initial Field - (psi)	Final Field - (psi)	Summa Can Number	Control Number	DATE	TIME	DATE	TIME	Temp in °C	Received on Ice	Custody	Sealed Cooler	Samples Intact	
1	ROUX07-2023 1120	SLC	553607631	-30	-5	11/20/23 12:36	11/21/23 10:14	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
2	ROUX06-2023 1120	SLC	3467513678	-30	-6	11/20/23 12:37	11/21/23 11:18	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
3	ROUXB02-2023 1120	SLC	55155981	-29	-6	11/20/23 13:02	11/21/23 09:34	WAIVER SNEATH	WAIVER SNEATH	11-21-23	09:50						
4	ROUX05-2023 1120 -4	SLC	553313689	-30	-6	11/20/23 13:17	11/21/23 11:33	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
5	ROUXB01-2023 1120	SLC	551907886	-30	-4	11/20/23 13:29	11/21/23 10:29	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
6	ROUX04-2023 1120	SLC	38955274	-29	-6	11/20/23 13:40	11/21/23 10:41	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
7	ROUX02-2023 1120 -1	SLC	3467617512	-30	-5	11/20/23 13:48	11/21/23 10:51	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
8	ROUX03-2023 1120	SLC	553403874	-30	-5	11/20/23 13:56	11/21/23 10:51	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
9	ROUX01-2023 1120	SLC	552913686	-30	-6	11/20/23 14:02	11/21/23 10:56	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
10	ROUX0 5 -2023 1120 -0 -10	SLC	3458703802	-29	-5	11/20/23 13:18	11/21/23 11:34	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						
11	ROUXB0 2 -2023 1120 -0	SLC	44203881	-29	-5	11/20/23 13:03	11/21/23 09:35	WAIVER SNEATH	WAIVER SNEATH	11-21-23	12:25						

Method: TO-15 SIM (ROUX)
Pace Lab ID

Program: UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: Alaska Arizona California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Minnesota Missouri Montana Nebraska Nevada New Hampshire New Jersey New Mexico New York North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia Washington West Virginia Wisconsin Wyoming

Comments:

CHK BY: [Signature]
DISTRIBUTION: [Signature]
SUB OUT: [Signature]

SAMPLER NAME AND SIGNATURE: Peter Grimmer
PRINT Name of SAMPLER: Peter Grimmer
SIGNATURE of SAMPLER: [Signature]
DATE Signed (MM/DD/YYYY): 11/20/23

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6385 FC048Rev.01, 03Feb2010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2	
Submission #: <u>13-22027</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <input checked="" type="checkbox"/> Container: <u>Jumbo</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>11/2/23</u> 1930 Analyst Init <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / Box / 16oz PE UNPRES										
2oz C ¹⁵										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / Box / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/608.3/8051A										
QT EPA-515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 5015M										
QT EPA 3270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: RPZ Date/Time: 11/2/23 1935
 A = Actual ! C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> of <u>2</u>	
Submission #: <u>23-22027</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Synma</u> Thermometer ID: _____		Date/Time: <u>11/2/23</u> 1930	
		Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C		Analyst Init: <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/605.3/0081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 11/2/23 1930
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information						
2322027-01	COC Number:	---		Receive Date:	11/21/2023 19:30		
	Project Number:	---		Sampling Date:	11/21/2023 10:14		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX07-20231120		Lab Matrix:	Air		
	Sampled By:	Client		Sample Type:	Vapor or Air		
	<hr/>						
2322027-02	COC Number:	---		Receive Date:	11/21/2023 19:30		
	Project Number:	---		Sampling Date:	11/21/2023 11:18		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX06-20231120		Lab Matrix:	Air		
	Sampled By:	Client		Sample Type:	Vapor or Air		
	<hr/>						
2322027-03	COC Number:	---		Receive Date:	11/21/2023 19:30		
	Project Number:	---		Sampling Date:	11/21/2023 09:34		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUXB02-20231120		Lab Matrix:	Air		
	Sampled By:	Client		Sample Type:	Vapor or Air		
	<hr/>						
2322027-04	COC Number:	---		Receive Date:	11/21/2023 19:30		
	Project Number:	---		Sampling Date:	11/21/2023 11:33		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX05-20231120		Lab Matrix:	Air		
	Sampled By:	Client		Sample Type:	Vapor or Air		
	<hr/>						
2322027-05	COC Number:	---		Receive Date:	11/21/2023 19:30		
	Project Number:	---		Sampling Date:	11/21/2023 10:29		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUXB01-20231120		Lab Matrix:	Air		
	Sampled By:	Client		Sample Type:	Vapor or Air		
	<hr/>						
2322027-06	COC Number:	---		Receive Date:	11/21/2023 19:30		
	Project Number:	---		Sampling Date:	11/21/2023 10:41		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX04-20231120		Lab Matrix:	Air		
	Sampled By:	Client		Sample Type:	Vapor or Air		
	<hr/>						
2322027-07	COC Number:	---		Receive Date:	11/21/2023 19:30		
	Project Number:	---		Sampling Date:	11/21/2023 11:51		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX02-20231120		Lab Matrix:	Air		
	Sampled By:	Client		Sample Type:	Vapor or Air		
	<hr/>						

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2322027-08	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/21/2023 10:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231120	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322027-09	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/21/2023 10:56
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231120	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322027-10	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/21/2023 11:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231120-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2322027-11	COC Number:	---	Receive Date:	11/21/2023 19:30
	Project Number:	---	Sampling Date:	11/21/2023 09:35
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231120-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-01		Client Sample Name: ROUX07-20231120, 11/21/2023 10:14:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.33	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.44	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.089	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.064	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.079	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.092	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.53	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.42	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.10	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.52	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-01	Client Sample Name: ROUX07-20231120, 11/21/2023 10:14:00AM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 02:52		BEP	MS-A1	1	B178943	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-02		Client Sample Name: ROUX06-20231120, 11/21/2023 11:18:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.21	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.093	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.062	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.11	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.043	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	0.049	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.35	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.47	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.13	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.051	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.18	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-02	Client Sample Name: ROUX06-20231120, 11/21/2023 11:18:00AM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 03:30	BEP	MS-A1	1	B178943 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322027-03	Client Sample Name:	ROUXB02-20231120, 11/21/2023 9:34:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.20	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.44	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.070	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.063	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.061	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.045	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.40	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.14	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.051	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.19	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-03	Client Sample Name: ROUXB02-20231120, 11/21/2023 9:34:00AM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 04:08	BEP	MS-A1	1	B178943 EPA TO-15

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Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-04		Client Sample Name: ROUX05-20231120, 11/21/2023 11:33:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.20	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.45	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.071	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.065	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.091	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.092	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.37	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.31	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.43	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-04	Client Sample Name: ROUX05-20231120, 11/21/2023 11:33:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 04:45		BEP	MS-A1	1	B178943	EPA TO-15

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Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-05		Client Sample Name: ROUXB01-20231120, 11/21/2023 10:29:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.17	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.44	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.068	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.065	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.023	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.21	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.48	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.067	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.028	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.095	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	86.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-05	Client Sample Name: ROUXB01-20231120, 11/21/2023 10:29:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 05:23		BEP	MS-A1	1	B178943	EPA TO-15

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Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-06		Client Sample Name: ROUX04-20231120, 11/21/2023 10:41:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.20	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.068	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.065	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.16	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.041	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	0.14	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.27	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.13	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.047	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.18	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	85.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-06	Client Sample Name: ROUX04-20231120, 11/21/2023 10:41:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 06:00		BEP	MS-A1	1	B178943	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-07		Client Sample Name: ROUX02-20231120, 11/21/2023 11:51:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.44	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.070	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.063	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.13	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.031	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.27	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.096	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.037	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.13	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-07	Client Sample Name: ROUX02-20231120, 11/21/2023 11:51:00AM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 06:38	BEP	MS-A1	1	B178943 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-08		Client Sample Name: ROUX03-20231120, 11/21/2023 10:51:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.18	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.066	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.062	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.078	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.026	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.17	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.074	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.028	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.10	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	85.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-08	Client Sample Name: ROUX03-20231120, 11/21/2023 10:51:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 07:16		BEP	MS-A1	1	B178943	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-09		Client Sample Name: ROUX01-20231120, 11/21/2023 10:56:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.18	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.064	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	1.9	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.060	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.059	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.024	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.17	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.065	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.027	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.092	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	88.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-09	Client Sample Name: ROUX01-20231120, 11/21/2023 10:56:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 07:53		BEP	MS-A1	1	B178943	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-10		Client Sample Name: ROUX05-20231120-D, 11/21/2023 11:34:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.19	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.065	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.061	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.087	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.098	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.49	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.32	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.45	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-10	Client Sample Name: ROUX05-20231120-D, 11/21/2023 11:34:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 08:31		BEP	MS-A1	1	B178943	EPA TO-15

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322027-11		Client Sample Name: ROUXB02-20231120-D, 11/21/2023 9:35:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.18	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND	L07	1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.066	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.061	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.070	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.025	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.16	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.068	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.027	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.095	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	84.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322027-11	Client Sample Name: ROUXB02-20231120-D, 11/21/2023 9:35:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/22/23 08:04	11/23/23 09:09		BEP	MS-A1	1	B178943	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B178943							
Benzene	B178943-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B178943-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B178943-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B178943-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B178943-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B178943-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B178943-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B178943-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B178943-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B178943-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B178943-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B178943-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B178943-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B178943-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B178943-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B178943-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B178943-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B178943-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B178943-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B178943-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B178943-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B178943-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B178943-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B178943-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B178943-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B178943-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B178943-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B178943-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B178943-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B178943-BLK1	85.1	%	50 - 150 (LCL - UCL)			1

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Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1
1	B178943-BLK1	PB	EPA-TO-15-SIM	11/22/23	11/23/23 10:50	BEP	MS-A1	1



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 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178943											
Benzene	B178943-BS1	LCS	0.30091	0.31948	ug/m3	94.2		70 - 130			1
	B178943-BSD1	LCSD	0.30254	0.31948	ug/m3	94.7	0.5	70 - 130	30		2
Benzyl chloride	B178943-BS1	LCS	0.70871	0.51772	ug/m3	137		70 - 130		L07	1
	B178943-BSD1	LCSD	0.70462	0.51772	ug/m3	136	0.6	70 - 130	30	L07	2
Carbon tetrachloride	B178943-BS1	LCS	0.64706	0.62913	ug/m3	103		70 - 130			1
	B178943-BSD1	LCSD	0.64253	0.62913	ug/m3	102	0.7	70 - 130	30		2
Chlorobenzene	B178943-BS1	LCS	0.52085	0.46036	ug/m3	113		70 - 130			1
	B178943-BSD1	LCSD	0.51739	0.46036	ug/m3	112	0.7	70 - 130	30		2
Chloroform	B178943-BS1	LCS	0.48767	0.48825	ug/m3	99.9		70 - 130			1
	B178943-BSD1	LCSD	0.48757	0.48825	ug/m3	99.9	0.0	70 - 130	30		2
1,2-Dibromoethane	B178943-BS1	LCS	0.87830	0.76835	ug/m3	114		70 - 130			1
	B178943-BSD1	LCSD	0.87999	0.76835	ug/m3	115	0.2	70 - 130	30		2
1,2-Dichlorobenzene	B178943-BS1	LCS	0.72022	0.60124	ug/m3	120		70 - 130			1
	B178943-BSD1	LCSD	0.70296	0.60124	ug/m3	117	2.4	70 - 130	30		2
1,3-Dichlorobenzene	B178943-BS1	LCS	0.73224	0.60124	ug/m3	122		70 - 130			1
	B178943-BSD1	LCSD	0.72792	0.60124	ug/m3	121	0.6	70 - 130	30		2
1,4-Dichlorobenzene	B178943-BS1	LCS	0.77553	0.60124	ug/m3	129		70 - 130			1
	B178943-BSD1	LCSD	0.76002	0.60124	ug/m3	126	2.0	70 - 130	30		2
1,1-Dichloroethane	B178943-BS1	LCS	0.40879	0.40474	ug/m3	101		70 - 130			1
	B178943-BSD1	LCSD	0.40903	0.40474	ug/m3	101	0.1	70 - 130	30		2
1,2-Dichloroethane	B178943-BS1	LCS	0.39895	0.40474	ug/m3	98.6		70 - 130			1
	B178943-BSD1	LCSD	0.39414	0.40474	ug/m3	97.4	1.2	70 - 130	30		2
1,1-Dichloroethene	B178943-BS1	LCS	0.36501	0.39649	ug/m3	92.1		70 - 130			1
	B178943-BSD1	LCSD	0.36807	0.39649	ug/m3	92.8	0.8	70 - 130	30		2
cis-1,2-Dichloroethene	B178943-BS1	LCS	0.36283	0.39649	ug/m3	91.5		70 - 130			1
	B178943-BSD1	LCSD	0.36926	0.39649	ug/m3	93.1	1.8	70 - 130	30		2
Tetrachloroethene	B178943-BS1	LCS	0.77050	0.67825	ug/m3	114		70 - 130			1
	B178943-BSD1	LCSD	0.75829	0.67825	ug/m3	112	1.6	70 - 130	30		2
Toluene	B178943-BS1	LCS	0.39467	0.37684	ug/m3	105		70 - 130			1
	B178943-BSD1	LCSD	0.38902	0.37684	ug/m3	103	1.4	70 - 130	30		2
1,1,1-Trichloroethane	B178943-BS1	LCS	0.54955	0.54562	ug/m3	101		70 - 130			1
	B178943-BSD1	LCSD	0.55157	0.54562	ug/m3	101	0.4	70 - 130	30		2
1,1,2-Trichloroethane	B178943-BS1	LCS	0.64094	0.54562	ug/m3	117		70 - 130			1
	B178943-BSD1	LCSD	0.63177	0.54562	ug/m3	116	1.4	70 - 130	30		2
Trichloroethene	B178943-BS1	LCS	0.58955	0.53737	ug/m3	110		70 - 130			1
	B178943-BSD1	LCSD	0.58267	0.53737	ug/m3	108	1.2	70 - 130	30		2

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 Long Beach, CA 90804

Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B178943											
Vinyl chloride	B178943-BS1	LCS	0.23238	0.25562	ug/m3	90.9		70 - 130			1
	B178943-BSD1	LCSD	0.23051	0.25562	ug/m3	90.2	0.8	70 - 130	30		2
p- & m-Xylenes	B178943-BS1	LCS	0.90451	0.86843	ug/m3	104		70 - 130			1
	B178943-BSD1	LCSD	0.89621	0.86843	ug/m3	103	0.9	70 - 130	30		2
o-Xylene	B178943-BS1	LCS	0.44867	0.43421	ug/m3	103		70 - 130			1
	B178943-BSD1	LCSD	0.44928	0.43421	ug/m3	103	0.1	70 - 130	30		2
Total Xylenes	B178943-BS1	LCS	1.3532	1.3026	ug/m3	104		70 - 130			1
	B178943-BSD1	LCSD	1.3455	1.3026	ug/m3	103	0.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B178943-BS1	LCS	3.68	3.58	ug/m3	103		50 - 150			1
	B178943-BSD1	LCSD	3.69	3.58	ug/m3	103	0.4	50 - 150			2

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 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
1	B178943-BS1	LCS	EPA-TO-15-SIM	11/22/23	11/23/23 09:41	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1

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Reported: 11/27/2023 16:48
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1
2	B178943-BSD1	LCSD	EPA-TO-15-SIM	11/22/23	11/23/23 10:14	BEP	MS-A1	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 11/27/2023 16:48
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- L07 The Laboratory Control Sample (LCS) recovery is not within laboratory established control limits.



Date of Report: 12/06/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2322159
Invoice ID: B487853, B487866

Enclosed are the results of analyses for samples received by the laboratory on 11/28/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY
The Chain-of-Custody is a LEGAL DOCUMENT

2322159



23-22159

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Section D Required Client Information		COLLECTED		RELINQUISHED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		
ITEM #	AIR SAMPLE ID	Report To:	Copy To:	Company Name:	Address:	Invoice Number:	Media Code	Media Code	Media Code	Media Code	Media Code	Media Code	Media Code	Media Code	Media Code	Media Code	Media Code	Media Code
1	ROUX07-2023 1127	ROUX	A. McGUIRE	ROUX	5150 E PCH, STE 450 LONG BEACH, CA 90804	2471.00011003	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
2	ROUX06-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
3	ROUX02-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
4	ROUX05-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
5	ROUX01-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
6	ROUX04-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
7	ROUX02-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
8	ROUX03-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
9	ROUX01-2023 1127						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
10	ROUX00-2023 1127-D-08						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
11	ROUX00-2023 1127-D-09						6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC	6LC
12																		

CHK BY
[Signature]
DISTRIBUTION
SUB OUT

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev.01_03Feb2010

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-22159</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____		Date/Time <u>11/28/23</u>	
		Temperature: (A) <u>ROOM</u> °C / (C) <u>TEMP</u> °C		Analyst Init <u>MPI 1900</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / Box / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / Box / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 518/518.1/8051A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	

Comments: _____
 Sample Numbering Completed By: RPZ Date/Time: 11/28/23 1954 Rev 23 06/20/22
 A = Actual / C = Corrected [S:\WP\Doc\Word\Protect_LAB_DOCS\FORUSISAMREC\hw 20]



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2322159-01	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 09:16
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231127	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322159-02	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 08:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231127	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322159-03	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 09:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231127	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322159-04	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 10:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231127	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322159-05	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 09:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231127	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322159-06	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 10:09
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231127	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322159-07	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 10:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231127	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2322159-08	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 08:55
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231127-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322159-09	COC Number:	---	Receive Date:	11/28/2023 19:00
	Project Number:	---	Sampling Date:	11/28/2023 09:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231127-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-01		Client Sample Name: ROUX07-20231127, 11/28/2023 9:16:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.43	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.16	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	1.9	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.069	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.26	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.82	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.46	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.16	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.62	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-01	Client Sample Name: ROUX07-20231127, 11/28/2023 9:16:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/28/23 19:30	11/28/23	23:53	BEP	MS-A1	1	B179055	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-02		Client Sample Name: ROUX06-20231127, 11/28/2023 8:52:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.38	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.069	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.31	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.036	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.78	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.46	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.61	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-02	Client Sample Name: ROUX06-20231127, 11/28/2023 8:52:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 00:31		BEP	MS-A1	1	B179055	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-03		Client Sample Name: ROUXB02-20231127, 11/28/2023 9:32:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.071	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.093	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.038	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.54	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.29	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.10	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.39	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-03	Client Sample Name: ROUXB02-20231127, 11/28/2023 9:32:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 01:08	BEP	MS-A1	1	B179055 EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-04		Client Sample Name: ROUX05-20231127, 11/28/2023 10:39:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.31	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.089	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	1.9	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.068	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.21	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.037	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.59	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.81	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	98.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-04	Client Sample Name: ROUX05-20231127, 11/28/2023 10:39:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 01:46		BEP	MS-A1	1	B179055	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-05		Client Sample Name: ROUXB01-20231127, 11/28/2023 9:50:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.086	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.066	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.13	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.075	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.038	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.46	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.24	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.083	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.32	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-05	Client Sample Name: ROUXB01-20231127, 11/28/2023 9:50:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 02:23		BEP	MS-A1	1	B179055	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-06		Client Sample Name: ROUX04-20231127, 11/28/2023 10:09:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.82	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.43	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.076	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.070	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.50	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.71	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.24	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.95	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-06	Client Sample Name: ROUX04-20231127, 11/28/2023 10:09:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 03:01		BEP	MS-A1	1	B179055	EPA TO-15

DCN = Data Continuation Number



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Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-07		Client Sample Name: ROUX01-20231127, 11/28/2023 10:25:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.18	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.41	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.067	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.061	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.078	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.027	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.16	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.073	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.027	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.10	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-07	Client Sample Name: ROUX01-20231127, 11/28/2023 10:25:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 03:38	BEP	MS-A1	1	B179055 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-08		Client Sample Name: ROUX06-20231127-D, 11/28/2023 8:55:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.37	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.068	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.31	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.036	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.77	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.51	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.17	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.67	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-08	Client Sample Name: ROUX06-20231127-D, 11/28/2023 8:55:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 04:16		BEP	MS-A1	1	B179055	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322159-09		Client Sample Name: ROUXB01-20231127-D, 11/28/2023 9:51:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.25	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.42	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.091	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.065	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.13	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.069	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.086	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.46	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.23	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.079	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.31	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322159-09	Client Sample Name: ROUXB01-20231127-D, 11/28/2023 9:51:00AM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	11/28/23 19:30	11/29/23 04:54		BEP	MS-A1	1	B179055	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179055							
Benzene	B179055-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B179055-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B179055-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B179055-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B179055-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B179055-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B179055-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B179055-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B179055-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B179055-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B179055-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B179055-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B179055-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B179055-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B179055-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B179055-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B179055-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B179055-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B179055-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B179055-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B179055-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B179055-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B179055-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B179055-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B179055-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B179055-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B179055-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B179055-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B179055-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B179055-BLK1	81.9	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179055-BLK1	PB	EPA-TO-15-SIM	11/28/23	11/28/23 19:08	BEP	MS-A1	1

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Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B179055											
Benzene	B179055-BS1	LCS	0.26370	0.31948	ug/m3	82.5		70 - 130			1
	B179055-BSD1	LCSD	0.26612	0.31948	ug/m3	83.3	0.9	70 - 130	30		2
Benzyl chloride	B179055-BS1	LCS	0.61443	0.51772	ug/m3	119		70 - 130			1
	B179055-BSD1	LCSD	0.61832	0.51772	ug/m3	119	0.6	70 - 130	30		2
Carbon tetrachloride	B179055-BS1	LCS	0.58283	0.62913	ug/m3	92.6		70 - 130			1
	B179055-BSD1	LCSD	0.58038	0.62913	ug/m3	92.3	0.4	70 - 130	30		2
Chlorobenzene	B179055-BS1	LCS	0.49433	0.46036	ug/m3	107		70 - 130			1
	B179055-BSD1	LCSD	0.48669	0.46036	ug/m3	106	1.6	70 - 130	30		2
Chloroform	B179055-BS1	LCS	0.44724	0.48825	ug/m3	91.6		70 - 130			1
	B179055-BSD1	LCSD	0.43806	0.48825	ug/m3	89.7	2.1	70 - 130	30		2
1,2-Dibromoethane	B179055-BS1	LCS	0.84149	0.76835	ug/m3	110		70 - 130			1
	B179055-BSD1	LCSD	0.82974	0.76835	ug/m3	108	1.4	70 - 130	30		2
1,2-Dichlorobenzene	B179055-BS1	LCS	0.68535	0.60124	ug/m3	114		70 - 130			1
	B179055-BSD1	LCSD	0.67206	0.60124	ug/m3	112	2.0	70 - 130	30		2
1,3-Dichlorobenzene	B179055-BS1	LCS	0.70621	0.60124	ug/m3	117		70 - 130			1
	B179055-BSD1	LCSD	0.69930	0.60124	ug/m3	116	1.0	70 - 130	30		2
1,4-Dichlorobenzene	B179055-BS1	LCS	0.69743	0.60124	ug/m3	116		70 - 130			1
	B179055-BSD1	LCSD	0.70212	0.60124	ug/m3	117	0.7	70 - 130	30		2
1,1-Dichloroethane	B179055-BS1	LCS	0.37054	0.40474	ug/m3	91.5		70 - 130			1
	B179055-BSD1	LCSD	0.37414	0.40474	ug/m3	92.4	1.0	70 - 130	30		2
1,2-Dichloroethane	B179055-BS1	LCS	0.36018	0.40474	ug/m3	89.0		70 - 130			1
	B179055-BSD1	LCSD	0.35524	0.40474	ug/m3	87.8	1.4	70 - 130	30		2
1,1-Dichloroethene	B179055-BS1	LCS	0.32564	0.39649	ug/m3	82.1		70 - 130			1
	B179055-BSD1	LCSD	0.32532	0.39649	ug/m3	82.1	0.1	70 - 130	30		2
cis-1,2-Dichloroethene	B179055-BS1	LCS	0.31446	0.39649	ug/m3	79.3		70 - 130			1
	B179055-BSD1	LCSD	0.31545	0.39649	ug/m3	79.6	0.3	70 - 130	30		2
Tetrachloroethene	B179055-BS1	LCS	0.72783	0.67825	ug/m3	107		70 - 130			1
	B179055-BSD1	LCSD	0.72763	0.67825	ug/m3	107	0.0	70 - 130	30		2
Toluene	B179055-BS1	LCS	0.35796	0.37684	ug/m3	95.0		70 - 130			1
	B179055-BSD1	LCSD	0.35996	0.37684	ug/m3	95.5	0.6	70 - 130	30		2
1,1,1-Trichloroethane	B179055-BS1	LCS	0.50006	0.54562	ug/m3	91.7		70 - 130			1
	B179055-BSD1	LCSD	0.49979	0.54562	ug/m3	91.6	0.1	70 - 130	30		2
1,1,2-Trichloroethane	B179055-BS1	LCS	0.62015	0.54562	ug/m3	114		70 - 130			1
	B179055-BSD1	LCSD	0.61508	0.54562	ug/m3	113	0.8	70 - 130	30		2
Trichloroethene	B179055-BS1	LCS	0.55242	0.53737	ug/m3	103		70 - 130			1
	B179055-BSD1	LCSD	0.55280	0.53737	ug/m3	103	0.1	70 - 130	30		2

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Reported: 12/06/2023 10:42
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179055											
Vinyl chloride	B179055-BS1	LCS	0.20646	0.25562	ug/m3	80.8		70 - 130			1
	B179055-BSD1	LCSD	0.20554	0.25562	ug/m3	80.4	0.4	70 - 130	30		2
p- & m-Xylenes	B179055-BS1	LCS	0.79739	0.86843	ug/m3	91.8		70 - 130			1
	B179055-BSD1	LCSD	0.80017	0.86843	ug/m3	92.1	0.3	70 - 130	30		2
o-Xylene	B179055-BS1	LCS	0.39922	0.43421	ug/m3	91.9		70 - 130			1
	B179055-BSD1	LCSD	0.39761	0.43421	ug/m3	91.6	0.4	70 - 130	30		2
Total Xylenes	B179055-BS1	LCS	1.1966	1.3026	ug/m3	91.9		70 - 130			1
	B179055-BSD1	LCSD	1.1978	1.3026	ug/m3	92.0	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B179055-BS1	LCS	3.63	3.58	ug/m3	101		50 - 150			1
	B179055-BSD1	LCSD	3.56	3.58	ug/m3	99.6	1.7	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B179055-BS1	LCS	EPA-TO-15-SIM	11/28/23	11/28/23	17:59	BEP	MS-A1	1
2	B179055-BSD1	LCSD	EPA-TO-15-SIM	11/28/23	11/28/23	18:31	BEP	MS-A1	1

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Reported: 12/06/2023 10:42
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/06/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2322303
Invoice ID: B488077

Enclosed are the results of analyses for samples received by the laboratory on 11/30/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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----------------------------	----

document

AIR: CHAIN-OF-CUST
The Chain-of-Custody is a LEGAL DOCUMENT.



23-22303

Page: 1 of 1

2322303

Section A Required Client Information:
 Company: ROUX
 Address: 9190 E PCH, SITE 450
 LONG BEACH, CA 90804
 Email To: AMCGUIRE@ROUXINC.COM
 Phone: 562-446-8624 Fax:
 Requested Date/Time/AT:

Section B Required Project Information:
 Report To: A. MCGUIRE
 Copy To:
 Purchase Order No.:
 Project Name: CHOLUITA CANYON
 Project Number: 2471.0001L003

Section C Invoice Information:
 Advertiser: ROUX ACCOUNTS PAYABLE (ROUXAR@ROUXINC.COM)
 Company Name: ROUX
 Address: 9190 E PCH #450, LONG BEACH, CA 90804
 POC Name: 001-48102
 Pace Project Manager/Sales Rep: Jherina Schulte
 Pace Profile #:

Section D Required Client Information
AIR SAMPLE ID
 Sample ID# MUST BE UNIQUE

ITEM #	MEDIA CODE	COLLECTED		Flow Control Number	Summa Can Number	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS						
		DATE	TIME					DATE	TIME	Temp in °C	Received on Ice			Custody	Sealed Cooler	Samples Intact				
1	6LC	11-29-23	12:43	11-30-23	1001	-29	-5	08103	05981	X										
2	6LC	11-29-23	12:55	11-30-23	1011	-30	-6	09070	03805	X										
3	6LC	11-29-23	13:04	11-30-23	1023	-30	-5	08344	03874	X										
4	6LC	11-29-23	13:18	11-30-23	1034	-30	-5	27752	05272	X										
5	6LC	11-29-23	13:30	11-30-23	1044	-29	-6	07622	17512	X										
6	6LC	11-29-23	13:40	11-30-23	1106	-29	-5	06800	03802	X										
7	6LC	11-29-23	13:45	11-30-23	1057	-29	-5	3022	07631	X										
8	6LC	11-29-23	13:54	11-30-23	1116	-30	-6	06777	13689	X										
9	6LC	11-29-23	14:00	11-30-23	1213	-30	-6	27754	13686	X										
10	6LC	11-29-23	13:58	11-30-23	1220	-30	-6	27759	13678	X										
11	6LC	11-29-23	13:31	11-30-23	0922	-29	-5	01700	03881	X										
12																				

Method: TO-15 SIM (NOCA)

Program: UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: AK HI IL IN MI MN NY OH PA RI VA WI WY

Report Level: I, II, III, IV, Other

Comments:

RELINQUISHED BY: CAW, ROUX
 DATE: 11-30-23
 TIME: 12:33

ACCEPTED BY: MCGUIRE
 DATE: 11-30-23
 TIME: 18:50

SAMPLER NAME AND SIGNATURE: Cassandra Walker
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED (MM/DD/YYYY): 11-30-2023

CHK BY: [Signature]

DISTRIBUTION: [Signature]

SUB-OUT: [Signature]

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.9386

FC048Rev.01, 03F#62010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>3</u>						
Submission #: <u>23-22303</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>---</u> Container: <u>Sulphur</u> Thermometer ID: <u>---</u> Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Date/Time <u>11/30/23</u> <u>1850</u> Analyst Init <u>PRE</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/608.3/808.1A										
QT EPA 515.1/815.1A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 545.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCR VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A						

Comments: Sample Numbering Completed By: RPZ Date/Time: 11/30/23 1950
 A = Actual / C = Corrected

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> of <u>3</u>	
Submission #: <u>23-22303</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals		Ice Chest <input type="checkbox"/>		Containers <input type="checkbox"/>	
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		None <input checked="" type="checkbox"/> Comments: _____	
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>11/30/23</u> <u>1850</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz C ⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- SM										
QT EPA 508/608 3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8915M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: RPZ Date/Time: 11/30/23 1950
 A = Actual / C = Corrected

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>3</u> Of <u>3</u>	
Submission #: <u>23-22303</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals		Ice Chest <input type="checkbox"/>		Containers <input type="checkbox"/>	
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		None <input checked="" type="checkbox"/> Comments: _____	
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>507mm</u> Thermometer ID: _____		Date/Time <u>11/30/23</u> <u>1850</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
3oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/508.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 3015M										
QT EPA 327C										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A								A	A

Comments: _____
 Sample Numbering Completed By: RPL Date/Time: 11/30/23 1950 Rev 23 05/20/22
 A = Actual / C = Corrected 02:50:00:WordPerfect:LAB_DOCMFR0015AUSREG14 201



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2322303-01	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 10:01
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322303-02	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 10:11
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322303-03	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 10:23
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322303-04	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 10:34
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322303-05	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 10:44
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322303-06	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 11:06
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322303-07	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 10:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2322303-08	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 11:16
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322303-09	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 12:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231129	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322303-10	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231129-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322303-11	COC Number:	---	Receive Date:	11/30/2023 18:50
	Project Number:	---	Sampling Date:	11/30/2023 09:22
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231129-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-01		Client Sample Name: ROUX07-20231129, 11/30/2023 10:01:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.74	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.14	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.35	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.19	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.041	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.59	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.80	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-01	Client Sample Name: ROUX07-20231129, 11/30/2023 10:01:00AM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 18:39		BEP	MS-A1	1	B179281	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-02		Client Sample Name: ROUX06-20231129, 11/30/2023 10:11:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.089	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.57	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.84	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-02	Client Sample Name: ROUX06-20231129, 11/30/2023 10:11:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 19:16		BEP	MS-A1	1	B179281	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-03		Client Sample Name: ROUXB02-20231129, 11/30/2023 10:23:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.75	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.18	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.093	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.59	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.91	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.47	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.16	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.62	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-03	Client Sample Name: ROUXB02-20231129, 11/30/2023 10:23:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 19:53		BEP	MS-A1	1	B179281	EPA TO-15

DCN = Data Continuation Number



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Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-04		Client Sample Name: ROUX05-20231129, 11/30/2023 10:34:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.47	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.10	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.093	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.34	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.44	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.046	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.9	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.56	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	94.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-04	Client Sample Name: ROUX05-20231129, 11/30/2023 10:34:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 20:30		BEP	MS-A1	1	B179281	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-05		Client Sample Name: ROUXB01-20231129, 11/30/2023 10:44:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.46	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.48	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.084	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.25	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.083	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.084	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.51	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.26	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.096	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.35	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-05	Client Sample Name: ROUXB01-20231129, 11/30/2023 10:44:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23	21:07	BEP	MS-A1	1	B179281	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-06		Client Sample Name: ROUX04-20231129, 11/30/2023 11:06:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.61	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.48	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.093	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.093	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.98	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.84	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.55	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.74	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-06	Client Sample Name: ROUX04-20231129, 11/30/2023 11:06:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 21:45	BEP	MS-A1	1	B179281 EPA TO-15

DCN = Data Continuation Number

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Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-07		Client Sample Name: ROUX02-20231129, 11/30/2023 10:57:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.68	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.49	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.093	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.13	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.084	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.77	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.53	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.19	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.72	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-07	Client Sample Name: ROUX02-20231129, 11/30/2023 10:57:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 22:22	BEP	MS-A1	1	B179281 EPA TO-15

DCN = Data Continuation Number

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 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-08		Client Sample Name: ROUX03-20231129, 11/30/2023 11:16:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.74	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.48	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.68	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.037	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.80	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.64	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.22	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.87	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-08	Client Sample Name: ROUX03-20231129, 11/30/2023 11:16:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 23:00		BEP	MS-A1	1	B179281	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-09		Client Sample Name: ROUX01-20231129, 11/30/2023 12:13:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.72	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.48	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.088	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.085	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.47	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.44	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.28	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.10	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.38	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-09	Client Sample Name: ROUX01-20231129, 11/30/2023 12:13:00PM, Cassandra Walker						
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/01/23 08:13	12/01/23 23:37	BEP	MS-A1	1	B179281 EPA TO-15

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Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-10		Client Sample Name: ROUX03-20231129-D, 11/30/2023 12:20:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.72	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.48	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.096	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.61	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.034	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.83	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.63	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.22	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.86	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-10	Client Sample Name: ROUX03-20231129-D, 11/30/2023 12:20:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/01/23 08:13	12/02/23 00:15	BEP	MS-A1	1	B179281 EPA TO-15

DCN = Data Continuation Number

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Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322303-11		Client Sample Name: ROUXB01-20231129-D, 11/30/2023 9:22:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.35	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.47	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.082	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.29	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.081	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.096	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.46	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.25	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.087	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.34	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322303-11	Client Sample Name: ROUXB01-20231129-D, 11/30/2023 9:22:00AM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/01/23 08:13	12/02/23 00:52		BEP	MS-A1	1	B179281	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179281							
Benzene	B179281-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B179281-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B179281-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B179281-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B179281-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B179281-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B179281-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B179281-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B179281-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B179281-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B179281-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B179281-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B179281-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B179281-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B179281-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B179281-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B179281-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B179281-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B179281-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B179281-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B179281-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B179281-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B179281-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B179281-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B179281-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B179281-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B179281-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B179281-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B179281-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B179281-BLK1	84.7	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179281-BLK1	PB	EPA-TO-15-SIM	12/01/23	12/01/23 15:17	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B179281											
Benzene	B179281-BS1	LCS	0.30107	0.31948	ug/m3	94.2		70 - 130			1
	B179281-BSD1	LCSD	0.30130	0.31948	ug/m3	94.3	0.1	70 - 130	30		2
Benzyl chloride	B179281-BS1	LCS	0.50286	0.51772	ug/m3	97.1		70 - 130			1
	B179281-BSD1	LCSD	0.52637	0.51772	ug/m3	102	4.6	70 - 130	30		2
Carbon tetrachloride	B179281-BS1	LCS	0.58774	0.62913	ug/m3	93.4		70 - 130			1
	B179281-BSD1	LCSD	0.58925	0.62913	ug/m3	93.7	0.3	70 - 130	30		2
Chlorobenzene	B179281-BS1	LCS	0.44581	0.46036	ug/m3	96.8		70 - 130			1
	B179281-BSD1	LCSD	0.44535	0.46036	ug/m3	96.7	0.1	70 - 130	30		2
Chloroform	B179281-BS1	LCS	0.45627	0.48825	ug/m3	93.4		70 - 130			1
	B179281-BSD1	LCSD	0.45803	0.48825	ug/m3	93.8	0.4	70 - 130	30		2
1,2-Dibromoethane	B179281-BS1	LCS	0.73016	0.76835	ug/m3	95.0		70 - 130			1
	B179281-BSD1	LCSD	0.71917	0.76835	ug/m3	93.6	1.5	70 - 130	30		2
1,2-Dichlorobenzene	B179281-BS1	LCS	0.61825	0.60124	ug/m3	103		70 - 130			1
	B179281-BSD1	LCSD	0.60520	0.60124	ug/m3	101	2.1	70 - 130	30		2
1,3-Dichlorobenzene	B179281-BS1	LCS	0.64651	0.60124	ug/m3	108		70 - 130			1
	B179281-BSD1	LCSD	0.64001	0.60124	ug/m3	106	1.0	70 - 130	30		2
1,4-Dichlorobenzene	B179281-BS1	LCS	0.65775	0.60124	ug/m3	109		70 - 130			1
	B179281-BSD1	LCSD	0.66857	0.60124	ug/m3	111	1.6	70 - 130	30		2
1,1-Dichloroethane	B179281-BS1	LCS	0.38256	0.40474	ug/m3	94.5		70 - 130			1
	B179281-BSD1	LCSD	0.37787	0.40474	ug/m3	93.4	1.2	70 - 130	30		2
1,2-Dichloroethane	B179281-BS1	LCS	0.38195	0.40474	ug/m3	94.4		70 - 130			1
	B179281-BSD1	LCSD	0.37888	0.40474	ug/m3	93.6	0.8	70 - 130	30		2
1,1-Dichloroethene	B179281-BS1	LCS	0.37128	0.39649	ug/m3	93.6		70 - 130			1
	B179281-BSD1	LCSD	0.36719	0.39649	ug/m3	92.6	1.1	70 - 130	30		2
cis-1,2-Dichloroethene	B179281-BS1	LCS	0.38135	0.39649	ug/m3	96.2		70 - 130			1
	B179281-BSD1	LCSD	0.37802	0.39649	ug/m3	95.3	0.9	70 - 130	30		2
Tetrachloroethene	B179281-BS1	LCS	0.63661	0.67825	ug/m3	93.9		70 - 130			1
	B179281-BSD1	LCSD	0.63145	0.67825	ug/m3	93.1	0.8	70 - 130	30		2
Toluene	B179281-BS1	LCS	0.33799	0.37684	ug/m3	89.7		70 - 130			1
	B179281-BSD1	LCSD	0.33679	0.37684	ug/m3	89.4	0.4	70 - 130	30		2
1,1,1-Trichloroethane	B179281-BS1	LCS	0.51348	0.54562	ug/m3	94.1		70 - 130			1
	B179281-BSD1	LCSD	0.50846	0.54562	ug/m3	93.2	1.0	70 - 130	30		2
1,1,2-Trichloroethane	B179281-BS1	LCS	0.50748	0.54562	ug/m3	93.0		70 - 130			1
	B179281-BSD1	LCSD	0.50088	0.54562	ug/m3	91.8	1.3	70 - 130	30		2
Trichloroethene	B179281-BS1	LCS	0.50110	0.53737	ug/m3	93.3		70 - 130			1
	B179281-BSD1	LCSD	0.49369	0.53737	ug/m3	91.9	1.5	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/06/2023 10:43
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179281											
Vinyl chloride	B179281-BS1	LCS	0.24917	0.25562	ug/m3	97.5		70 - 130			1
	B179281-BSD1	LCSD	0.24761	0.25562	ug/m3	96.9	0.6	70 - 130	30		2
p- & m-Xylenes	B179281-BS1	LCS	0.82344	0.86843	ug/m3	94.8		70 - 130			1
	B179281-BSD1	LCSD	0.82170	0.86843	ug/m3	94.6	0.2	70 - 130	30		2
o-Xylene	B179281-BS1	LCS	0.40638	0.43421	ug/m3	93.6		70 - 130			1
	B179281-BSD1	LCSD	0.40720	0.43421	ug/m3	93.8	0.2	70 - 130	30		2
Total Xylenes	B179281-BS1	LCS	1.2298	1.3026	ug/m3	94.4		70 - 130			1
	B179281-BSD1	LCSD	1.2289	1.3026	ug/m3	94.3	0.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B179281-BS1	LCS	3.60	3.58	ug/m3	101		50 - 150			1
	B179281-BSD1	LCSD	3.63	3.58	ug/m3	101	0.8	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B179281-BS1	LCS	EPA-TO-15-SIM	12/01/23	12/01/23	14:08	BEP	MS-A1	1
2	B179281-BSD1	LCSD	EPA-TO-15-SIM	12/01/23	12/01/23	14:41	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/06/2023 10:43
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/07/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2322386
Invoice ID: B488224

Enclosed are the results of analyses for samples received by the laboratory on 12/4/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Reque
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accu

2322386

Page: 1 of 1

Section A
Required Client Information:
Company: ROUX
Address: 5150 E PCH, STE 450
LONG BEACH, CA 90804
Email To: AMCGUIRE@ROUXINC.COM
Phone: 902-446-8624 Fax:
Requested Due Date(TAT):

Section B
Required Project Information:
Report To: A. MCGUIRE
Copy To:
Purchase Order No.:
Project Name: CHILQUITA CANYON
Project Number: 2471.0001L003

Section C
Invoice Information:
Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)
Company Name: ROUX
Address: 5150 E PCH #450, LONG BEACH, CA 90804
Price Quote Reference: 00148192
Face Project Manager/Sales Rep: Brianna Schulte
Face Profile #:

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	AIR SAMPLE ID	VIAL MEDIA CODE	MEDIA CODE	PD Reading (Client only)	COLLECTED		MEDIA CODE	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
					DATE	TIME										DATE
1	ROUX07-2023 1203	-1	ELC		12-3-23	12:18	ELC	12-4-23	09:08							
2	ROUX06-2023 1203	-2	ELC		12-3-23	12:24	ELC	12-4-23	09:58							
3	ROUX02-2023 1203	-3	ELC		12-3-23	12:41	ELC	12-4-23	10:45							
4	ROUX05-2023 1203	-4	ELC		12-3-23	12:56	ELC	12-4-23	09:30							
5	ROUX01-2023 1203	-5	ELC		12-3-23	13:04	ELC	12-4-23	09:44							
6	ROUX04-2023 1203	-6	ELC		12-3-23	13:17	ELC	12-4-23	10:11							
7	ROUX02-2023 1203	-7	ELC		12-3-23	13:27	ELC	12-4-23	10:18							
8	ROUX03-2023 1203	-8	ELC		12-3-23	13:33	ELC	12-4-23	10:27							
9	ROUX01-2023 1203	-9	ELC		12-3-23	13:38	ELC	12-4-23	09:59							
10	ROUX06-2023 1203	-9	ELC		12-3-23	13:30	ELC	12-4-23	09:59							
11	ROUX01-2023 1203	-10	ELC		12-3-23	13:58	ELC	12-4-23	09:43							

Comments:

REINQUISHED BY / AFFILIATION: [Signature] ROUX 12-4-23 13:23
ACCEPTED BY / AFFILIATION: [Signature] ROUX 12-4-23 15:30

TEMPERATURE
Temp in °C: [Blank]

SAMPLE CONDITIONS
Received on Ice: Y/N
Custody Sealed Cooler: Y/N
Samples Intact: Y/N

Signature and Date:
SAMPLER NAME AND SIGNATURE: Cassandra Walker
DATE SIGNED (MM/DD/YYYY): 12-4-23



FC046Rev.01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>23-22386</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u> </u> Container: <u>Summa</u> Thermometer ID: <u> </u>		Date/Time: <u>2/4/23 15:30</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init: <u>PPG</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
FT CYANIDE										
FT NITROGEN FORMS										
FT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
FT TOTAL ORGANIC CARBON										
FT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
FT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 502/08.3/0081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: PPG Date/Time: 2/4/23 15:40
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2322386-01	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 12:18
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322386-02	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 12:29
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322386-03	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 12:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322386-04	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 12:52
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322386-05	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 13:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322386-06	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 13:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322386-07	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 13:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2322386-08	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 13:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-2023 1203	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322386-09	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-2023 1203-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			
2322386-10	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/03/2023 13:05
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-2023 1203-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
	<hr/>			

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322386-01	Client Sample Name:	ROUX07-2023 1203, 12/3/2023 12:18:00PM, Cassandra Walker					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.77	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.45	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.19	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.55	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.046	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.65	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.23	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.88	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-01	Client Sample Name: ROUX07-2023 1203, 12/3/2023 12:18:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/04/23 20:20		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-02		Client Sample Name: ROUX06-2023 1203, 12/3/2023 12:29:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.94	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.16	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.55	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.26	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.042	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.81	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-02	Client Sample Name: ROUX06-2023 1203, 12/3/2023 12:29:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/04/23 16:33	12/04/23 20:58	BEP	MS-A1	1	B179438 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-03		Client Sample Name: ROUXB02-2023 1203, 12/3/2023 12:41:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.54	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.13	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.097	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.29	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.091	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.51	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.28	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.098	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.38	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-03	Client Sample Name: ROUXB02-2023 1203, 12/3/2023 12:41:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/04/23 21:35		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-04		Client Sample Name: ROUX05-2023 1203, 12/3/2023 12:52:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.14	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.47	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.089	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.62	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.90	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-04	Client Sample Name: ROUX05-2023 1203, 12/3/2023 12:52:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/04/23 22:12		BEP	MS-A1	1	B179438	EPA TO-15

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Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-05		Client Sample Name: ROUXB01-2023 1203, 12/3/2023 1:04:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.49	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.094	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.29	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.086	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.76	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.47	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.16	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.63	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-05	Client Sample Name: ROUXB01-2023 1203, 12/3/2023 1:04:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/04/23	22:50	BEP	MS-A1	1	B179438	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-06		Client Sample Name: ROUX04-2023 1203, 12/3/2023 1:17:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.47	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.12	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.10	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.71	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.31	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.039	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.7	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.99	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.33	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-06	Client Sample Name: ROUX04-2023 1203, 12/3/2023 1:17:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/04/23	23:27	BEP	MS-A1	1	B179438	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-07		Client Sample Name: ROUX02-2023 1203, 12/3/2023 1:24:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.20	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.79	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.35	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.041	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	2.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.40	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-07	Client Sample Name: ROUX02-2023 1203, 12/3/2023 1:24:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 00:04	BEP	MS-A1	1	B179438 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-08		Client Sample Name: ROUX01-2023 1203, 12/3/2023 1:38:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.3	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.094	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.097	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.30	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.58	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.34	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.47	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-08	Client Sample Name: ROUX01-2023 1203, 12/3/2023 1:38:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 00:42		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-09		Client Sample Name: ROUX06-2023 1203-D, 12/3/2023 12:30:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.99	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.45	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.16	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.10	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.59	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.037	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.89	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.31	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-09	Client Sample Name: ROUX06-2023 1203-D, 12/3/2023 12:30:00PM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 01:19	BEP	MS-A1	1	B179438 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322386-10		Client Sample Name: ROUXB01-2023 1203-D, 12/3/2023 1:05:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.56	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.095	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.29	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.078	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.64	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.48	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.17	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.65	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	92.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322386-10	Client Sample Name: ROUXB01-2023 1203-D, 12/3/2023 1:05:00PM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 01:56		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179438							
Benzene	B179438-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B179438-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B179438-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B179438-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B179438-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B179438-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B179438-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B179438-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B179438-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B179438-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B179438-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B179438-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B179438-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B179438-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B179438-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B179438-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B179438-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B179438-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B179438-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B179438-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B179438-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B179438-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B179438-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B179438-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B179438-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B179438-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B179438-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B179438-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B179438-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B179438-BLK1	83.2	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179438-BLK1	PB	EPA-TO-15-SIM	12/04/23	12/04/23 18:45	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B179438											
Benzene	B179438-BS1	LCS	0.31810	0.31948	ug/m3	99.6		70 - 130			1
	B179438-BSD1	LCSD	0.32190	0.31948	ug/m3	101	1.2	70 - 130	30		2
Benzyl chloride	B179438-BS1	LCS	0.49463	0.51772	ug/m3	95.5		70 - 130		J	1
	B179438-BSD1	LCSD	0.48319	0.51772	ug/m3	93.3	2.3	70 - 130	30	J	2
Carbon tetrachloride	B179438-BS1	LCS	0.61580	0.62913	ug/m3	97.9		70 - 130			1
	B179438-BSD1	LCSD	0.62045	0.62913	ug/m3	98.6	0.8	70 - 130	30		2
Chlorobenzene	B179438-BS1	LCS	0.47256	0.46036	ug/m3	103		70 - 130			1
	B179438-BSD1	LCSD	0.47794	0.46036	ug/m3	104	1.1	70 - 130	30		2
Chloroform	B179438-BS1	LCS	0.48366	0.48825	ug/m3	99.1		70 - 130			1
	B179438-BSD1	LCSD	0.48469	0.48825	ug/m3	99.3	0.2	70 - 130	30		2
1,2-Dibromoethane	B179438-BS1	LCS	0.76635	0.76835	ug/m3	99.7		70 - 130			1
	B179438-BSD1	LCSD	0.77234	0.76835	ug/m3	101	0.8	70 - 130	30		2
1,2-Dichlorobenzene	B179438-BS1	LCS	0.67807	0.60124	ug/m3	113		70 - 130			1
	B179438-BSD1	LCSD	0.68896	0.60124	ug/m3	115	1.6	70 - 130	30		2
1,3-Dichlorobenzene	B179438-BS1	LCS	0.72491	0.60124	ug/m3	121		70 - 130			1
	B179438-BSD1	LCSD	0.74210	0.60124	ug/m3	123	2.3	70 - 130	30		2
1,4-Dichlorobenzene	B179438-BS1	LCS	0.73717	0.60124	ug/m3	123		70 - 130			1
	B179438-BSD1	LCSD	0.73976	0.60124	ug/m3	123	0.4	70 - 130	30		2
1,1-Dichloroethane	B179438-BS1	LCS	0.39924	0.40474	ug/m3	98.6		70 - 130			1
	B179438-BSD1	LCSD	0.40320	0.40474	ug/m3	99.6	1.0	70 - 130	30		2
1,2-Dichloroethane	B179438-BS1	LCS	0.40466	0.40474	ug/m3	100		70 - 130			1
	B179438-BSD1	LCSD	0.40486	0.40474	ug/m3	100	0.0	70 - 130	30		2
1,1-Dichloroethene	B179438-BS1	LCS	0.38258	0.39649	ug/m3	96.5		70 - 130			1
	B179438-BSD1	LCSD	0.39170	0.39649	ug/m3	98.8	2.4	70 - 130	30		2
cis-1,2-Dichloroethene	B179438-BS1	LCS	0.39090	0.39649	ug/m3	98.6		70 - 130			1
	B179438-BSD1	LCSD	0.39427	0.39649	ug/m3	99.4	0.9	70 - 130	30		2
Tetrachloroethene	B179438-BS1	LCS	0.67927	0.67825	ug/m3	100		70 - 130			1
	B179438-BSD1	LCSD	0.67771	0.67825	ug/m3	99.9	0.2	70 - 130	30		2
Toluene	B179438-BS1	LCS	0.36215	0.37684	ug/m3	96.1		70 - 130			1
	B179438-BSD1	LCSD	0.36102	0.37684	ug/m3	95.8	0.3	70 - 130	30		2
1,1,1-Trichloroethane	B179438-BS1	LCS	0.53547	0.54562	ug/m3	98.1		70 - 130			1
	B179438-BSD1	LCSD	0.53924	0.54562	ug/m3	98.8	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B179438-BS1	LCS	0.53940	0.54562	ug/m3	98.9		70 - 130			1
	B179438-BSD1	LCSD	0.53962	0.54562	ug/m3	98.9	0.0	70 - 130	30		2
Trichloroethene	B179438-BS1	LCS	0.53141	0.53737	ug/m3	98.9		70 - 130			1
	B179438-BSD1	LCSD	0.52233	0.53737	ug/m3	97.2	1.7	70 - 130	30		2

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 Long Beach, CA 90804

Reported: 12/07/2023 8:55
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179438											
Vinyl chloride	B179438-BS1	LCS	0.26226	0.25562	ug/m3	103		70 - 130			1
	B179438-BSD1	LCSD	0.26883	0.25562	ug/m3	105	2.5	70 - 130	30		2
p- & m-Xylenes	B179438-BS1	LCS	0.87824	0.86843	ug/m3	101		70 - 130			1
	B179438-BSD1	LCSD	0.88679	0.86843	ug/m3	102	1.0	70 - 130	30		2
o-Xylene	B179438-BS1	LCS	0.43057	0.43421	ug/m3	99.2		70 - 130			1
	B179438-BSD1	LCSD	0.43751	0.43421	ug/m3	101	1.6	70 - 130	30		2
Total Xylenes	B179438-BS1	LCS	1.3088	1.3026	ug/m3	100		70 - 130			1
	B179438-BSD1	LCSD	1.3243	1.3026	ug/m3	102	1.2	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B179438-BS1	LCS	3.65	3.58	ug/m3	102		50 - 150			1
	B179438-BSD1	LCSD	3.64	3.58	ug/m3	102	0.2	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B179438-BS1	LCS	EPA-TO-15-SIM	12/04/23	12/04/23	17:36	BEP	MS-A1	1
2	B179438-BSD1	LCSD	EPA-TO-15-SIM	12/04/23	12/04/23	18:08	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/07/2023 8:55
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/15/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chiquita Canyon Air
Pace Work Order: 2322387
Invoice ID: B488225

Enclosed are the results of analyses for samples received by the laboratory on 12/4/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2322387

AIR: CHAIN-OF-CUSTODY / Analytical Request:
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:
Company: ROUX
Address: 0150 E PCH, STE 400
LONG BEACH, CA 90804
Email To: AMCQUIRE@ROUXINC.COM
Phone: 562-446-8624 Fax:
Requested Due Date/TIME:

Section B Required Project Information:
Report To: A. MCQUIRE
Copy To:
Purchase Order No.:
Project Name: CHOCUITA CANYON
Project Number: 2471.0001L003

Section C Invoice Information:
Material: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)
Company Name: ROUX
Address: 5150 E PCH #450, LONG BEACH, CA 90804
Pace Quote Reference: 00148192
Pace Project Manager/Sales Rep: Brianna Schulte
Pace Profile #:

Section D Required Client Information:
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	VIAL MEDIA CODE	MEDIA CODE	TUBING	CONCENTRATOR	COLLECTED		MEDIA CODE	PFD Reading (Clear only)	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS		
					DATE	TIME			DATE	TIME	DATE	TIME	DATE	TIME	
1	ROUX07-2023	1201	-1	ELC	12-23-2023	12:10	ELC	-24	12-23-2023	10:10	X				
2	ROUX06-2023	1201	-2	ELC	12-23-2023	10:41	ELC	-30	12-23-2023	13:04	X				
3	ROUXB02-2023	1201	-3	ELC	12-23-2023	09:27	ELC	-29	12-23-2023	09:27	X				
4	ROUX05-2023	1201	-4	ELC	12-23-2023	09:42	ELC	-30	12-23-2023	09:42	X				
5	ROUXB01-2023	1201	-5	ELC	12-23-2023	09:59	ELC	-29	12-23-2023	09:59	X				
6	ROUX04-2023	1201	-6	ELC	12-23-2023	10:10	ELC	-30	12-23-2023	10:18	X				
7	ROUX02-2023	1201	-7	ELC	12-23-2023	10:18	ELC	-30	12-23-2023	10:18	X				
8	ROUX03-2023	1201	-8	ELC	12-23-2023	10:24	ELC	-28	12-23-2023	10:24	X				
9	ROUX01-2023	1201	-9	ELC	12-23-2023	10:30	ELC	-29	12-23-2023	10:30	X				
10	ROUX04-2023	1201	-10	ELC	12-23-2023	10:04	ELC	-29	12-23-2023	10:04	X				
11	ROUXB02-2023	1201	-11	ELC	12-23-2023	09:28	ELC	-30	12-23-2023	09:28	X				
12															

Comments:

RELINQUISHED BY / AFFILIATION:
 12-23-2023 10:40 J. Pace
 12-23-2023 15:30 J. Pace
 12-23-2023 15:30 J. Pace

ACCEPTED BY / AFFILIATION:
 12-23-2023 10:10 [Signature]
 12-23-2023 13:04 [Signature]
 12-23-2023 09:27 [Signature]
 12-23-2023 09:42 [Signature]
 12-23-2023 09:59 [Signature]
 12-23-2023 10:18 [Signature]
 12-23-2023 10:18 [Signature]
 12-23-2023 10:24 [Signature]
 12-23-2023 10:30 [Signature]
 12-23-2023 10:04 [Signature]
 12-23-2023 09:28 [Signature]

SAMPLE CONDITIONS:
 Temp in °C: Y/N
 Received on Ice: Y/N
 Custody Sealed Cooler: Y/N
 Samples Intact: Y/N

Method: TO-15 SM (VOCs)

Program: UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: CA HI IL IN MI MN NY OH PA RI VA WI WY

Report Level: I, II, III, IV, Other

SAMPLER NAME AND SIGNATURE:
 Cassandra Walker
 DATE SIGNED (MM/DD/YYYY): 12-23-23

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6398

FC045Rev.01_03F4E02010

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PAGE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>2</u>	
Submission #: <u>23-22387</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ <small>Intact? Yes <input type="checkbox"/> No <input type="checkbox"/></small> <small>Intact? Yes <input type="checkbox"/> No <input type="checkbox"/></small>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>—</u> Container: <u>Summa</u> Thermometer ID: <u>—</u> Temperature: (A) <u>ROOM</u> °C / (C) <u>TEMP</u> °C		Date/Time: <u>12/4/23 1530</u> Analyst Init: <u>PPE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cu ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- SM										
QT EPA 503/608, 38081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: PPE Date/Time: 12/4/23 1540
 A = Actual / C = Corrected

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>	
Submission #: <u>23-22387</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>—</u> Container: <u>Summa</u> Thermometer ID: <u>—</u>		Date/Time <u>12/4/23 1530</u>	
Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C				Analyst Init: <u>PRB</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/608.3/6081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543.1										
QT EPA 549.2										
QT EPA 801SM										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: PRB Date/Time: 12/4/23 1540
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
2322387-01	COC Number:	---		Receive Date:	12/04/2023 15:30
	Project Number:	---		Sampling Date:	12/01/2023 12:17
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX07-2023 1201		Lab Matrix:	Air
	Sampled By:	Cassandra Walker		Sample Type:	Vapor or Air
2322387-02	COC Number:	---		Receive Date:	12/04/2023 15:30
	Project Number:	---		Sampling Date:	12/01/2023 12:28
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX06-2023 1201		Lab Matrix:	Air
	Sampled By:	Cassandra Walker		Sample Type:	Vapor or Air
2322387-03	COC Number:	---		Receive Date:	12/04/2023 15:30
	Project Number:	---		Sampling Date:	12/01/2023 12:45
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB02-2023 1201		Lab Matrix:	Air
	Sampled By:	Cassandra Walker		Sample Type:	Vapor or Air
2322387-04	COC Number:	---		Receive Date:	12/04/2023 15:30
	Project Number:	---		Sampling Date:	12/01/2023 13:00
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX05-2023 1201		Lab Matrix:	Air
	Sampled By:	Cassandra Walker		Sample Type:	Vapor or Air
2322387-05	COC Number:	---		Receive Date:	12/04/2023 15:30
	Project Number:	---		Sampling Date:	12/01/2023 13:10
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB01-2023 1201		Lab Matrix:	Air
	Sampled By:	Cassandra Walker		Sample Type:	Vapor or Air
2322387-06	COC Number:	---		Receive Date:	12/04/2023 15:30
	Project Number:	---		Sampling Date:	12/01/2023 13:25
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX04-2023 1201		Lab Matrix:	Air
	Sampled By:	Cassandra Walker		Sample Type:	Vapor or Air
2322387-07	COC Number:	---		Receive Date:	12/04/2023 15:30
	Project Number:	---		Sampling Date:	12/01/2023 13:34
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX02-2023 1201		Lab Matrix:	Air
	Sampled By:	Cassandra Walker		Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2322387-08	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/01/2023 13:40
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-2023 1201	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322387-09	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/01/2023 13:50
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-2023 1201	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322387-10	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/01/2023 13:26
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-2023 1201-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322387-11	COC Number:	---	Receive Date:	12/04/2023 15:30
	Project Number:	---	Sampling Date:	12/01/2023 12:46
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-2023 1201-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-01		Client Sample Name: ROUX07-2023 1201, 12/1/2023 12:17:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.52	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.47	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.18	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.083	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.41	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.24	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.086	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.33	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-01	Client Sample Name: ROUX07-2023 1201, 12/1/2023 12:17:00PM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 02:33	BEP	MS-A1	1	B179438 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322387-02		Client Sample Name:	ROUX06-2023 1201, 12/1/2023 12:28:00PM, Cassandra Walker				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.48	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.20	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.093	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.42	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.26	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.099	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.36	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-02	Client Sample Name: ROUX06-2023 1201, 12/1/2023 12:28:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 03:11		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-03		Client Sample Name: ROUXB02-2023 1201, 12/1/2023 12:45:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.45	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.097	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.13	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.061	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.31	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.15	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.055	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.21	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-03	Client Sample Name: ROUXB02-2023 1201, 12/1/2023 12:45:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 03:49		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-04		Client Sample Name: ROUX05-2023 1201, 12/1/2023 1:00:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.16	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.081	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.038	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.40	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.22	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.083	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.30	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-04	Client Sample Name: ROUX05-2023 1201, 12/1/2023 1:00:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 04:27		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number



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Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-05		Client Sample Name: ROUXB01-2023 1201, 12/1/2023 1:10:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.41	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.11	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.095	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.062	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.060	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.29	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.17	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.066	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.24	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-05	Client Sample Name: ROUXB01-2023 1201, 12/1/2023 1:10:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 05:05		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-06		Client Sample Name: ROUX04-2023 1201, 12/1/2023 1:25:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.72	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.098	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.17	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.037	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.53	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.33	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.45	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-06	Client Sample Name: ROUX04-2023 1201, 12/1/2023 1:25:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 05:43		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number



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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-07		Client Sample Name: ROUX02-2023 1201, 12/1/2023 1:34:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.47	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.093	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.084	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.24	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	0.036	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.63	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.42	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.57	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	85.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-07	Client Sample Name: ROUX02-2023 1201, 12/1/2023 1:34:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 06:21		BEP	MS-A1	1	B179438	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-08		Client Sample Name: ROUX03-2023 1201, 12/1/2023 1:40:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.73	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.091	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.15	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.12	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.43	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.35	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.48	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-08	Client Sample Name: ROUX03-2023 1201, 12/1/2023 1:40:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 06:59		BEP	MS-A1	1	B179438	EPA TO-15

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Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-09		Client Sample Name: ROUX01-2023 1201, 12/1/2023 1:50:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.82	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.46	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.087	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.14	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.080	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.29	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.49	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.16	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.061	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.23	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-09	Client Sample Name: ROUX01-2023 1201, 12/1/2023 1:50:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 07:36		BEP	MS-A1	1	B179438	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-10		Client Sample Name: ROUX04-2023 1201-D, 12/1/2023 1:26:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.68	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.47	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.091	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.11	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.18	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.13	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.54	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.35	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.48	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-10	Client Sample Name: ROUX04-2023 1201-D, 12/1/2023 1:26:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/04/23 16:33	12/05/23 08:14	BEP	MS-A1	1	B179438 EPA TO-15

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322387-11		Client Sample Name: ROUXB02-2023 1201-D, 12/1/2023 12:46:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.43	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.18	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.087	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.44	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.27	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.11	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.38	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	82.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322387-11	Client Sample Name: ROUXB02-2023 1201-D, 12/1/2023 12:46:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/07/23	19:10	BEP	MS-A1	1	B179691	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179438							
Benzene	B179438-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B179438-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B179438-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B179438-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B179438-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B179438-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B179438-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B179438-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B179438-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B179438-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B179438-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B179438-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B179438-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B179438-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B179438-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B179438-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B179438-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B179438-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B179438-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B179438-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B179438-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B179438-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B179438-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B179438-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B179438-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B179438-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B179438-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B179438-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B179438-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B179438-BLK1	83.2	%	50 - 150 (LCL - UCL)			1

QC Batch ID: B179691							
Benzene	B179691-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B179691-BLK1	ND	ug/m3	0.50	0.0052		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179691							
Carbon tetrachloride	B179691-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B179691-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B179691-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B179691-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B179691-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B179691-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B179691-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B179691-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B179691-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B179691-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B179691-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B179691-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B179691-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B179691-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B179691-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B179691-BLK1	ND	ug/m3	0.050	0.017		2
Tetrachloroethene	B179691-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B179691-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B179691-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B179691-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B179691-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B179691-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B179691-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B179691-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B179691-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B179691-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B179691-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B179691-BLK1	79.6	%	50 - 150 (LCL - UCL)			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179438-BLK1	PB	EPA-TO-15-SIM	12/04/23	12/04/23 18:45	BEP	MS-A1	1
2	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B179438											
Benzene	B179438-BS1	LCS	0.31810	0.31948	ug/m3	99.6		70 - 130			1
	B179438-BSD1	LCSD	0.32190	0.31948	ug/m3	101	1.2	70 - 130	30		2
Benzyl chloride	B179438-BS1	LCS	0.49463	0.51772	ug/m3	95.5		70 - 130		J	1
	B179438-BSD1	LCSD	0.48319	0.51772	ug/m3	93.3	2.3	70 - 130	30	J	2
Carbon tetrachloride	B179438-BS1	LCS	0.61580	0.62913	ug/m3	97.9		70 - 130			1
	B179438-BSD1	LCSD	0.62045	0.62913	ug/m3	98.6	0.8	70 - 130	30		2
Chlorobenzene	B179438-BS1	LCS	0.47256	0.46036	ug/m3	103		70 - 130			1
	B179438-BSD1	LCSD	0.47794	0.46036	ug/m3	104	1.1	70 - 130	30		2
Chloroform	B179438-BS1	LCS	0.48366	0.48825	ug/m3	99.1		70 - 130			1
	B179438-BSD1	LCSD	0.48469	0.48825	ug/m3	99.3	0.2	70 - 130	30		2
1,2-Dibromoethane	B179438-BS1	LCS	0.76635	0.76835	ug/m3	99.7		70 - 130			1
	B179438-BSD1	LCSD	0.77234	0.76835	ug/m3	101	0.8	70 - 130	30		2
1,2-Dichlorobenzene	B179438-BS1	LCS	0.67807	0.60124	ug/m3	113		70 - 130			1
	B179438-BSD1	LCSD	0.68896	0.60124	ug/m3	115	1.6	70 - 130	30		2
1,3-Dichlorobenzene	B179438-BS1	LCS	0.72491	0.60124	ug/m3	121		70 - 130			1
	B179438-BSD1	LCSD	0.74210	0.60124	ug/m3	123	2.3	70 - 130	30		2
1,4-Dichlorobenzene	B179438-BS1	LCS	0.73717	0.60124	ug/m3	123		70 - 130			1
	B179438-BSD1	LCSD	0.73976	0.60124	ug/m3	123	0.4	70 - 130	30		2
1,1-Dichloroethane	B179438-BS1	LCS	0.39924	0.40474	ug/m3	98.6		70 - 130			1
	B179438-BSD1	LCSD	0.40320	0.40474	ug/m3	99.6	1.0	70 - 130	30		2
1,2-Dichloroethane	B179438-BS1	LCS	0.40466	0.40474	ug/m3	100		70 - 130			1
	B179438-BSD1	LCSD	0.40486	0.40474	ug/m3	100	0.0	70 - 130	30		2
1,1-Dichloroethene	B179438-BS1	LCS	0.38258	0.39649	ug/m3	96.5		70 - 130			1
	B179438-BSD1	LCSD	0.39170	0.39649	ug/m3	98.8	2.4	70 - 130	30		2
cis-1,2-Dichloroethene	B179438-BS1	LCS	0.39090	0.39649	ug/m3	98.6		70 - 130			1
	B179438-BSD1	LCSD	0.39427	0.39649	ug/m3	99.4	0.9	70 - 130	30		2
Tetrachloroethene	B179438-BS1	LCS	0.67927	0.67825	ug/m3	100		70 - 130			1
	B179438-BSD1	LCSD	0.67771	0.67825	ug/m3	99.9	0.2	70 - 130	30		2
Toluene	B179438-BS1	LCS	0.36215	0.37684	ug/m3	96.1		70 - 130			1
	B179438-BSD1	LCSD	0.36102	0.37684	ug/m3	95.8	0.3	70 - 130	30		2
1,1,1-Trichloroethane	B179438-BS1	LCS	0.53547	0.54562	ug/m3	98.1		70 - 130			1
	B179438-BSD1	LCSD	0.53924	0.54562	ug/m3	98.8	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B179438-BS1	LCS	0.53940	0.54562	ug/m3	98.9		70 - 130			1
	B179438-BSD1	LCSD	0.53962	0.54562	ug/m3	98.9	0.0	70 - 130	30		2
Trichloroethene	B179438-BS1	LCS	0.53141	0.53737	ug/m3	98.9		70 - 130			1
	B179438-BSD1	LCSD	0.52233	0.53737	ug/m3	97.2	1.7	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals	Run #
								Percent Recovery	RPD		
QC Batch ID: B179438											
Vinyl chloride	B179438-BS1	LCS	0.26226	0.25562	ug/m3	103		70 - 130			1
	B179438-BSD1	LCSD	0.26883	0.25562	ug/m3	105	2.5	70 - 130	30		2
p- & m-Xylenes	B179438-BS1	LCS	0.87824	0.86843	ug/m3	101		70 - 130			1
	B179438-BSD1	LCSD	0.88679	0.86843	ug/m3	102	1.0	70 - 130	30		2
o-Xylene	B179438-BS1	LCS	0.43057	0.43421	ug/m3	99.2		70 - 130			1
	B179438-BSD1	LCSD	0.43751	0.43421	ug/m3	101	1.6	70 - 130	30		2
Total Xylenes	B179438-BS1	LCS	1.3088	1.3026	ug/m3	100		70 - 130			1
	B179438-BSD1	LCSD	1.3243	1.3026	ug/m3	102	1.2	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B179438-BS1	LCS	3.65	3.58	ug/m3	102		50 - 150			1
	B179438-BSD1	LCSD	3.64	3.58	ug/m3	102	0.2	50 - 150			2
QC Batch ID: B179691											
Benzene	B179691-BS1	LCS	0.27881	0.31948	ug/m3	87.3		70 - 130			3
	B179691-BSD1	LCSD	0.28053	0.31948	ug/m3	87.8	0.6	70 - 130	30		4
Benzyl chloride	B179691-BS1	LCS	0.45565	0.51772	ug/m3	88.0		70 - 130		J	3
	B179691-BSD1	LCSD	0.46667	0.51772	ug/m3	90.1	2.4	70 - 130	30	J	4
Carbon tetrachloride	B179691-BS1	LCS	0.57144	0.62913	ug/m3	90.8		70 - 130			3
	B179691-BSD1	LCSD	0.59849	0.62913	ug/m3	95.1	4.6	70 - 130	30		4
Chlorobenzene	B179691-BS1	LCS	0.43826	0.46036	ug/m3	95.2		70 - 130			3
	B179691-BSD1	LCSD	0.43877	0.46036	ug/m3	95.3	0.1	70 - 130	30		4
Chloroform	B179691-BS1	LCS	0.43884	0.48825	ug/m3	89.9		70 - 130			3
	B179691-BSD1	LCSD	0.44377	0.48825	ug/m3	90.9	1.1	70 - 130	30		4
1,2-Dibromoethane	B179691-BS1	LCS	0.72532	0.76835	ug/m3	94.4		70 - 130			3
	B179691-BSD1	LCSD	0.73078	0.76835	ug/m3	95.1	0.7	70 - 130	30		4
1,2-Dichlorobenzene	B179691-BS1	LCS	0.60039	0.60124	ug/m3	99.9		70 - 130			3
	B179691-BSD1	LCSD	0.60412	0.60124	ug/m3	100	0.6	70 - 130	30		4
1,3-Dichlorobenzene	B179691-BS1	LCS	0.62751	0.60124	ug/m3	104		70 - 130			3
	B179691-BSD1	LCSD	0.62348	0.60124	ug/m3	104	0.6	70 - 130	30		4
1,4-Dichlorobenzene	B179691-BS1	LCS	0.62859	0.60124	ug/m3	105		70 - 130			3
	B179691-BSD1	LCSD	0.63238	0.60124	ug/m3	105	0.6	70 - 130	30		4
1,1-Dichloroethane	B179691-BS1	LCS	0.36176	0.40474	ug/m3	89.4		70 - 130			3
	B179691-BSD1	LCSD	0.36961	0.40474	ug/m3	91.3	2.1	70 - 130	30		4
1,2-Dichloroethane	B179691-BS1	LCS	0.36548	0.40474	ug/m3	90.3		70 - 130			3
	B179691-BSD1	LCSD	0.37143	0.40474	ug/m3	91.8	1.6	70 - 130	30		4
1,1-Dichloroethene	B179691-BS1	LCS	0.34059	0.39649	ug/m3	85.9		70 - 130			3
	B179691-BSD1	LCSD	0.34689	0.39649	ug/m3	87.5	1.8	70 - 130	30		4
cis-1,2-Dichloroethene	B179691-BS1	LCS	0.34459	0.39649	ug/m3	86.9		70 - 130			3
	B179691-BSD1	LCSD	0.34725	0.39649	ug/m3	87.6	0.8	70 - 130	30		4

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 Long Beach, CA 90804

Reported: 12/15/2023 11:58
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179691											
Tetrachloroethene	B179691-BS1	LCS	0.64088	0.67825	ug/m3	94.5		70 - 130			3
	B179691-BSD1	LCSD	0.63566	0.67825	ug/m3	93.7	0.8	70 - 130	30		4
Toluene	B179691-BS1	LCS	0.32819	0.37684	ug/m3	87.1		70 - 130			3
	B179691-BSD1	LCSD	0.32657	0.37684	ug/m3	86.7	0.5	70 - 130	30		4
1,1,1-Trichloroethane	B179691-BS1	LCS	0.49520	0.54562	ug/m3	90.8		70 - 130			3
	B179691-BSD1	LCSD	0.50595	0.54562	ug/m3	92.7	2.1	70 - 130	30		4
1,1,2-Trichloroethane	B179691-BS1	LCS	0.51774	0.54562	ug/m3	94.9		70 - 130			3
	B179691-BSD1	LCSD	0.51888	0.54562	ug/m3	95.1	0.2	70 - 130	30		4
Trichloroethene	B179691-BS1	LCS	0.49734	0.53737	ug/m3	92.6		70 - 130			3
	B179691-BSD1	LCSD	0.49670	0.53737	ug/m3	92.4	0.1	70 - 130	30		4
Vinyl chloride	B179691-BS1	LCS	0.23862	0.25562	ug/m3	93.4		70 - 130			3
	B179691-BSD1	LCSD	0.24340	0.25562	ug/m3	95.2	2.0	70 - 130	30		4
p- & m-Xylenes	B179691-BS1	LCS	0.77207	0.86843	ug/m3	88.9		70 - 130			3
	B179691-BSD1	LCSD	0.77889	0.86843	ug/m3	89.7	0.9	70 - 130	30		4
o-Xylene	B179691-BS1	LCS	0.38758	0.43421	ug/m3	89.3		70 - 130			3
	B179691-BSD1	LCSD	0.38849	0.43421	ug/m3	89.5	0.2	70 - 130	30		4
Total Xylenes	B179691-BS1	LCS	1.1597	1.3026	ug/m3	89.0		70 - 130			3
	B179691-BSD1	LCSD	1.1674	1.3026	ug/m3	89.6	0.7	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B179691-BS1	LCS	3.43	3.58	ug/m3	95.8		50 - 150			3
	B179691-BSD1	LCSD	3.40	3.58	ug/m3	95.1	0.8	50 - 150			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B179438-BS1	LCS	EPA-TO-15-SIM	12/04/23	12/04/23	17:36	BEP	MS-A1	1
2	B179438-BSD1	LCSD	EPA-TO-15-SIM	12/04/23	12/04/23	18:08	BEP	MS-A1	1
3	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23	17:23	BEP	MS-A1	1
4	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23	17:56	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/15/2023 11:58
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/18/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chiquita Canyon Air
Pace Work Order: 2322612
Invoice ID: B488498

Enclosed are the results of analyses for samples received by the laboratory on 12/6/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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WSS 12-6-23
2A 3 BOXES

23-2-2612

AIR: CHAIN-OF-CUSTODY / Analytic

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

2322612

Section A: Required Client Information:

Company: ROUX
Address: 5150 E PCH, STE 450
LONG BEACH, CA 90804
Email To: AMCGUIRE@ROUXINC.COM
Phone: 562-446-8624 Fax:
Requested Due Date(ZAT):

Section B: Required Project Information:

Report To: A. MCGUIRE
Copy To:
Purchase Order No.:
Project Name: CHIQUITA CANYON
Project Number: 2471.0001L003

Section C: Invoice Information:

Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)
Company Name: ROUX
Address: 5150 E PCH #450, LONG BEACH, CA 90804
Pace Quote Reference: 00148102
Pace Project Manager/Sales Rep: Bessara Schulte
Pace Profile #:

Section D: Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	AIR SAMPLE ID	COLLECTED		MEDIA CODE	FD Reading (Client only)	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS						
		DATE	TIME			DATE	TIME	DATE	TIME	Received on Ice	Custody	Sealed Cooler	Samples Intact			
1	ROUX07-2023 1205	12-5-23	1352	ELC		12-6-23	1113	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
2	ROUX08-2023 1205	12-5-23	1403	ELC		12-6-23	1212	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
3	ROUX02-2023 1205	12-5-23	1416	ELC		12-6-23	1130	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
4	ROUX05-2023 1205	12-5-23	1428	ELC		12-6-23	1012	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
5	ROUX01-2023 1205	12-5-23	1508	ELC		12-6-23	1031	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
6	ROUX04-2023 1205	12-5-23	1517	ELC		12-6-23	1054	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
7	ROUX02-2023 1205	12-5-23	1533	ELC		12-6-23	1045	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
8	ROUX03-2023 1205	12-5-23	1537	ELC		12-6-23	1224	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
9	ROUX01-2023 1205	12-5-23	1518	ELC		12-6-23	1038	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
10	ROUX02-2023 1205-D	12-5-23	1451	ELC		12-6-23	1237	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
11	ROUX01-2023 1205-D	12-5-23	1482	ELC		12-6-23	1523	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N
12	ROUX03-2023 1204	12-5-23	1482	ELC		12-6-23	1523	12-6-23	12:51	White Smith	12-6-23	12:51	Y/N	Y/N	Y/N	Y/N

Comments:

Page: 1 of 1

Method: TO-15 SIM (VOCs)

Flow Control Number:

Summa Can Number:

Canister Pressure (psi):

Canister Pressure (psi):

Sampler Name and Signature: Bessara Schulte
Print Name of Sampler
Signature of Sampler

Temp in °C:

CHK BY: [Signature] **DISTRIBUTION**

SUB OUT: [Signature]

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6366

FC046Rev.01.03F#62010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2	
Submission #: <u>23-22612</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments:					
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUNCO</u> Thermometer ID: _____		Date/Time <u>12/6/23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C		Analyst Init <u>MP1</u> 1900	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 5M										
QT EPA 508/609.38081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

DISTRIBUTION
 SUB-OUT
 CHK BY

Comments: _____ Date/Time: 12/6/23 2109 Rev 2.3 05/2022
 Sample Numbering Completed By: MP1 (S:\WP\Doc\Word\Perfect\45_0400303\SIGAMRECrev 10)

A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 2 Of 2						
Submission #: <u>23-22612</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S					
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____										
Custody Seals Ice Chest <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Containers <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		None <input checked="" type="checkbox"/> Comments: _____						
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) <u>TEMP</u> °C		Date/Time <u>12/6/23</u> Analyst Init <u>MPI 1906</u>						
SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz C ⁺										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCE VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A								

Comments: _____ Date/Time: 12/6/23 2109 Rev 23 05/20/22
 Sample Numbering Completed By: MPI
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2322612-01	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 11:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-02	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 12:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-03	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 11:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-04	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 10:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-05	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 12:03
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-06	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 10:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-07	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 10:54
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2322612-08	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 10:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-09	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 12:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231205	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-10	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 10:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231205-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-11	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/06/2023 12:37
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231205-D	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air
2322612-12	COC Number:	---	12/06/2023	19:00
	Project Number:	---	Sampling Date:	12/04/2023 15:23
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231204	Lab Matrix:	Air
	Sampled By:	Cassandra Walker	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322612-01		Client Sample Name: ROUX07-20231205, 12/6/2023 11:13:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.78	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.64	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.88	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.31	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-01	Client Sample Name: ROUX07-20231205, 12/6/2023 11:13:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/07/23 08:15	12/07/23 19:47	BEP	MS-A1	1	B179691 EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322612-02		Client Sample Name: ROUX06-20231205, 12/6/2023 12:12:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.54	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.63	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.83	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	84.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-02	Client Sample Name: ROUX06-20231205, 12/6/2023 12:12:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/07/23 20:25		BEP	MS-A1	1	B179691	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322612-03		Client Sample Name: ROUXB02-20231205, 12/6/2023 11:30:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.48	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.98	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.87	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.49	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.16	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.65	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	78.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-03	Client Sample Name: ROUXB02-20231205, 12/6/2023 11:30:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 05:11		BEP	MS-A1	1	B179691	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322612-04							
Client Sample Name:	ROUX05-20231205, 12/6/2023 10:12:00AM, Cassandra Walker							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.56	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	0.062	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.46	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.24	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.7	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.86	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-04	Client Sample Name: ROUX05-20231205, 12/6/2023 10:12:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/07/23	23:22	BEP	MS-A1	1	B179691	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322612-05		Client Sample Name: ROUXB01-20231205, 12/6/2023 12:03:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.28	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.15	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.079	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.44	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.27	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.094	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.36	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	79.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-05 **Client Sample Name:** ROUXB01-20231205, 12/6/2023 12:03:00PM, Cassandra Walker

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 00:01	BEP	MS-A1	1	B179691	EPA TO-15	

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322612-06	Client Sample Name:	ROUX04-20231205, 12/6/2023 10:31:00AM, Cassandra Walker					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	3.5	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.30	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.8	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.37	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	75.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			2

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Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-06	Client Sample Name: ROUX04-20231205, 12/6/2023 10:31:00AM, Cassandra Walker								
DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID		
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 00:39	BEP	MS-A1	1	B179691	EPA TO-15	
2	EPA-TO-15-SIM	12/07/23 08:15	12/13/23 20:12	BEP	MS-A1	10	B180066	EPA TO-15	

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322612-07	Client Sample Name:	ROUX02-20231205, 12/6/2023 10:54:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Benzene	0.48	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1	
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1	
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1	
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1	
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1	
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1	
1,1-Difluoroethane	0.48	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1	
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1	
Toluene	0.92	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1	
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1	
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1	
p- & m-Xylenes	0.59	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1	
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1	
Total Xylenes	0.80	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1	
4-Bromofluorobenzene (Surrogate)	88.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1	

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-07	Client Sample Name: ROUX02-20231205, 12/6/2023 10:54:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 01:18	BEP	MS-A1	1	B179691 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322612-08							
Client Sample Name:	ROUX03-20231205, 12/6/2023 10:45:00AM, Cassandra Walker							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.88	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.77	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.96	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-08	Client Sample Name: ROUX03-20231205, 12/6/2023 10:45:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 01:56		BEP	MS-A1	1	B179691	EPA TO-15

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322612-09		Client Sample Name: ROUX01-20231205, 12/6/2023 12:24:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.23	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.087	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.45	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.24	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.085	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.33	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	84.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-09	Client Sample Name: ROUX01-20231205, 12/6/2023 12:24:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 02:35		BEP	MS-A1	1	B179691	EPA TO-15

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322612-10		Client Sample Name: ROUX02-20231205-D, 12/6/2023 10:38:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.40	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.50	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.88	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.52	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.57	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.19	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.76	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-10 Client Sample Name: ROUX02-20231205-D, 12/6/2023 10:38:00AM, Cassandra Walker

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 03:13		BEP	MS-A1	1	B179691	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322612-11		Client Sample Name:	ROUX01-20231205-D, 12/6/2023 12:37:00PM, Cassandra Walker				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.30	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.15	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.094	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.70	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.35	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.48	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-11	Client Sample Name: ROUX01-20231205-D, 12/6/2023 12:37:00PM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 03:52		BEP	MS-A1	1	B179691	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322612-12		Client Sample Name: ROUX03-20231204, 12/4/2023 3:23:00PM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.49	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.80	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.27	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	83.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322612-12	Client Sample Name: ROUX03-20231204, 12/4/2023 3:23:00PM, Cassandra Walker
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/07/23 08:15	12/08/23 04:32		BEP	MS-A1	1	B179691	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179691							
Benzene	B179691-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B179691-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B179691-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B179691-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B179691-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B179691-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B179691-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B179691-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B179691-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B179691-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B179691-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B179691-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B179691-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B179691-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B179691-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B179691-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B179691-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B179691-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B179691-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B179691-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B179691-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B179691-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B179691-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B179691-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B179691-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B179691-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B179691-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B179691-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B179691-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B179691-BLK1	79.6	%	50 - 150 (LCL - UCL)			1
QC Batch ID: B180066							
1,1-Difluoroethane	B180066-BLK1	ND	ug/m3	5.0	0.0027		2
4-Bromofluorobenzene (Surrogate)	B180066-BLK1	75.3	%	50 - 150 (LCL - UCL)			2

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Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
1	B179691-BLK1	PB	EPA-TO-15-SIM	12/07/23	12/07/23 18:32	BEP	MS-A1	1
2	B180066-BLK1	PB	EPA-TO-15-SIM	12/13/23	12/13/23 19:41	BEP	MS-A1	1
2	B180066-BLK1	PB	EPA-TO-15-SIM	12/13/23	12/13/23 19:41	BEP	MS-A1	1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179691											
Benzene	B179691-BS1	LCS	0.27881	0.31948	ug/m3	87.3		70 - 130			1
	B179691-BSD1	LCSD	0.28053	0.31948	ug/m3	87.8	0.6	70 - 130	30		2
Benzyl chloride	B179691-BS1	LCS	0.45565	0.51772	ug/m3	88.0		70 - 130		J	1
	B179691-BSD1	LCSD	0.46667	0.51772	ug/m3	90.1	2.4	70 - 130	30	J	2
Carbon tetrachloride	B179691-BS1	LCS	0.57144	0.62913	ug/m3	90.8		70 - 130			1
	B179691-BSD1	LCSD	0.59849	0.62913	ug/m3	95.1	4.6	70 - 130	30		2
Chlorobenzene	B179691-BS1	LCS	0.43826	0.46036	ug/m3	95.2		70 - 130			1
	B179691-BSD1	LCSD	0.43877	0.46036	ug/m3	95.3	0.1	70 - 130	30		2
Chloroform	B179691-BS1	LCS	0.43884	0.48825	ug/m3	89.9		70 - 130			1
	B179691-BSD1	LCSD	0.44377	0.48825	ug/m3	90.9	1.1	70 - 130	30		2
1,2-Dibromoethane	B179691-BS1	LCS	0.72532	0.76835	ug/m3	94.4		70 - 130			1
	B179691-BSD1	LCSD	0.73078	0.76835	ug/m3	95.1	0.7	70 - 130	30		2
1,2-Dichlorobenzene	B179691-BS1	LCS	0.60039	0.60124	ug/m3	99.9		70 - 130			1
	B179691-BSD1	LCSD	0.60412	0.60124	ug/m3	100	0.6	70 - 130	30		2
1,3-Dichlorobenzene	B179691-BS1	LCS	0.62751	0.60124	ug/m3	104		70 - 130			1
	B179691-BSD1	LCSD	0.62348	0.60124	ug/m3	104	0.6	70 - 130	30		2
1,4-Dichlorobenzene	B179691-BS1	LCS	0.62859	0.60124	ug/m3	105		70 - 130			1
	B179691-BSD1	LCSD	0.63238	0.60124	ug/m3	105	0.6	70 - 130	30		2
1,1-Dichloroethane	B179691-BS1	LCS	0.36176	0.40474	ug/m3	89.4		70 - 130			1
	B179691-BSD1	LCSD	0.36961	0.40474	ug/m3	91.3	2.1	70 - 130	30		2
1,2-Dichloroethane	B179691-BS1	LCS	0.36548	0.40474	ug/m3	90.3		70 - 130			1
	B179691-BSD1	LCSD	0.37143	0.40474	ug/m3	91.8	1.6	70 - 130	30		2
1,1-Dichloroethene	B179691-BS1	LCS	0.34059	0.39649	ug/m3	85.9		70 - 130			1
	B179691-BSD1	LCSD	0.34689	0.39649	ug/m3	87.5	1.8	70 - 130	30		2
cis-1,2-Dichloroethene	B179691-BS1	LCS	0.34459	0.39649	ug/m3	86.9		70 - 130			1
	B179691-BSD1	LCSD	0.34725	0.39649	ug/m3	87.6	0.8	70 - 130	30		2
Tetrachloroethene	B179691-BS1	LCS	0.64088	0.67825	ug/m3	94.5		70 - 130			1
	B179691-BSD1	LCSD	0.63566	0.67825	ug/m3	93.7	0.8	70 - 130	30		2
Toluene	B179691-BS1	LCS	0.32819	0.37684	ug/m3	87.1		70 - 130			1
	B179691-BSD1	LCSD	0.32657	0.37684	ug/m3	86.7	0.5	70 - 130	30		2
1,1,1-Trichloroethane	B179691-BS1	LCS	0.49520	0.54562	ug/m3	90.8		70 - 130			1
	B179691-BSD1	LCSD	0.50595	0.54562	ug/m3	92.7	2.1	70 - 130	30		2
1,1,2-Trichloroethane	B179691-BS1	LCS	0.51774	0.54562	ug/m3	94.9		70 - 130			1
	B179691-BSD1	LCSD	0.51888	0.54562	ug/m3	95.1	0.2	70 - 130	30		2
Trichloroethene	B179691-BS1	LCS	0.49734	0.53737	ug/m3	92.6		70 - 130			1
	B179691-BSD1	LCSD	0.49670	0.53737	ug/m3	92.4	0.1	70 - 130	30		2

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179691											
Vinyl chloride	B179691-BS1	LCS	0.23862	0.25562	ug/m3	93.4		70 - 130			1
	B179691-BSD1	LCSD	0.24340	0.25562	ug/m3	95.2	2.0	70 - 130	30		2
p- & m-Xylenes	B179691-BS1	LCS	0.77207	0.86843	ug/m3	88.9		70 - 130			1
	B179691-BSD1	LCSD	0.77889	0.86843	ug/m3	89.7	0.9	70 - 130	30		2
o-Xylene	B179691-BS1	LCS	0.38758	0.43421	ug/m3	89.3		70 - 130			1
	B179691-BSD1	LCSD	0.38849	0.43421	ug/m3	89.5	0.2	70 - 130	30		2
Total Xylenes	B179691-BS1	LCS	1.1597	1.3026	ug/m3	89.0		70 - 130			1
	B179691-BSD1	LCSD	1.1674	1.3026	ug/m3	89.6	0.7	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B179691-BS1	LCS	3.43	3.58	ug/m3	95.8		50 - 150			1
	B179691-BSD1	LCSD	3.40	3.58	ug/m3	95.1	0.8	50 - 150			2
QC Batch ID: B180066											
4-Bromofluorobenzene (Surrogate)	B180066-BS1	LCS	3.37	3.58	ug/m3	94.1		50 - 150			3
	B180066-BSD1	LCSD	3.21	3.58	ug/m3	89.6	4.9	50 - 150			4

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
1	B179691-BS1	LCS	EPA-TO-15-SIM	12/07/23	12/07/23 17:23	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
2	B179691-BSD1	LCSD	EPA-TO-15-SIM	12/07/23	12/07/23 17:56	BEP	MS-A1	1
3	B180066-BS1	LCS	EPA-TO-15-SIM	12/13/23	12/13/23 18:31	BEP	MS-A1	1
4	B180066-BSD1	LCSD	EPA-TO-15-SIM	12/13/23	12/13/23 19:05	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/14/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2322806
Invoice ID: B488708

Enclosed are the results of analyses for samples received by the laboratory on 12/8/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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23-22806

WSS 12-8-23
3A 3 boxes

AIR: CHAIN-OF-CUSTODY / Analytical
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be com

23-22806

12-8-23

Page: 1 of 1

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State
 AL AR CA CO CT DE FL GA HI IL IN IA KS KY LA MA MD MI MN MO MS MT NC ND NE NH NJ NM NV NY OH OK OR PA RI SC SD TN TX VA VT WA WI WY

Method: TO-15 SIM (VOCs)

Pace Lab ID

Section A Required Client Information:
 Company: ROUX
 Address: 5150 E PCH, STE 450
LONG BEACH, CA 90804
 Email To: AMC@ROUX.COM
 Phone: 562-446-8024 Fax:
 Requested Due Date(TAT):

Section B Required Project Information:
 Report To: A. MCGUIRE
 Copy To:
 Purchase Order No.:
 Project Name: CHOCUITA CANYON
 Project Number: 2471 0001L003

Section C Invoice Information:
 Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUX.COM)
 Company Name: ROUX
 Address: 5150 E PCH #450, LONG BEACH, CA 90804
 Pace Quote Reference: 00148192
 Pace Project Management/Sales Rep: Estimote Schulte
 Pace Profile #:

ITEM #	COLLECTED		Summa Can Number	Flow Control Number	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		
	DATE	TIME			DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on	Isob	Cooled	Sealed
1	12-7-23	12:50	12-8-23	109	-29	-6	12-8-23	12:22	12-8-23	12:22					
2	12-7-23	13:00	12-8-23	1101	-30	-6	12-8-23	12:22	12-8-23	12:22					
3	12-7-23	13:15	12-8-23	1049	-30	-5	12-8-23	12:22	12-8-23	12:22					
4	12-7-23	13:25	12-8-23	0947	-29	-5	12-8-23	12:22	12-8-23	12:22					
5	12-7-23	13:35	12-8-23	0956	-30	-6	12-8-23	12:22	12-8-23	12:22					
6	12-7-23	13:46	12-8-23	1005	-29	-6	12-8-23	12:22	12-8-23	12:22					
7	12-7-23	13:54	12-8-23	1035	-29	-6	12-8-23	12:22	12-8-23	12:22					
8	12-7-23	14:01	12-8-23	1035	-29	-6	12-8-23	12:22	12-8-23	12:22					
9	12-7-23	14:08	12-8-23	1020	-30	-4	12-8-23	12:22	12-8-23	12:22					
10	12-7-23	14:09	12-8-23	1021	-30	-6	12-8-23	12:22	12-8-23	12:22					
11	12-7-23	13:16	12-8-23	0941	-30	-5	12-8-23	12:22	12-8-23	12:22					
12															

Section D Required Client Information:
AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE

Comments:

Check BY AMC DISTRIBUTION AMC SUB OUT AMC

SAMPLER NAME AND SIGNATURE
 NAME: Walter Sneath
 SIGNATURE: Walter Sneath
 DATE: 12/8/23

SAMPLER NAME AND SIGNATURE
 NAME: Assandra Walker
 SIGNATURE: Assandra Walker
 DATE: 12/08/23

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 2	
Submission #: <u>23-22806</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>—</u> Container: <u>Summa</u> Thermometer ID: <u>—</u>		Date/Time <u>12/8/23 1830</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/08.3/081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 3015M										
QT EPA 3270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 12/8/23 1910
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>	
Submission #: <u>23-22806</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>12/8/23 1830</u>	
Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C				Analyst Init <u>PPE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PR UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PCA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
49 ml VOA VIAL-504										
QT EPA 505/05.3/0081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: PPE Date/Time: 12/8/23 1900
 A = Actual / C = Corrected



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2322806-01	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX07-20231207 Sampled By: Cassandra Walker	Receive Date: 12/08/2023 18:30 Sampling Date: 12/08/2023 11:09 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2322806-02	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX06-20231207 Sampled By: Cassandra Walker	Receive Date: 12/08/2023 18:30 Sampling Date: 12/08/2023 11:01 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2322806-03	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUXB02-20231207 Sampled By: Cassandra Walker	Receive Date: 12/08/2023 18:30 Sampling Date: 12/08/2023 10:49 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2322806-04	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX05-20231207 Sampled By: Cassandra Walker	Receive Date: 12/08/2023 18:30 Sampling Date: 12/08/2023 09:47 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2322806-05	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUXB01-20231207 Sampled By: Cassandra Walker	Receive Date: 12/08/2023 18:30 Sampling Date: 12/08/2023 09:56 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2322806-06	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX04-20231207 Sampled By: Cassandra Walker	Receive Date: 12/08/2023 18:30 Sampling Date: 12/08/2023 10:05 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	
2322806-07	COC Number: --- Project Number: --- Sampling Location: --- Sampling Point: ROUX02-20231207 Sampled By: Cassandra Walker	Receive Date: 12/08/2023 18:30 Sampling Date: 12/08/2023 10:35 Sample Depth: --- Lab Matrix: Air Sample Type: Vapor or Air	

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	
2322806-08	COC Number: ---	Receive Date: 12/08/2023 18:30
	Project Number: ---	Sampling Date: 12/08/2023 10:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: ROUX03-20231207	Lab Matrix: Air
	Sampled By: Cassandra Walker	Sample Type: Vapor or Air
2322806-09	COC Number: ---	Receive Date: 12/08/2023 18:30
	Project Number: ---	Sampling Date: 12/08/2023 10:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: ROUX01-20231207	Lab Matrix: Air
	Sampled By: Cassandra Walker	Sample Type: Vapor or Air
2322806-10	COC Number: ---	Receive Date: 12/08/2023 18:30
	Project Number: ---	Sampling Date: 12/08/2023 10:21
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: ROUX01-20231207-D	Lab Matrix: Air
	Sampled By: Cassandra Walker	Sample Type: Vapor or Air
2322806-11	COC Number: ---	Receive Date: 12/08/2023 18:30
	Project Number: ---	Sampling Date: 12/08/2023 09:41
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: ROUXB02-20231207-D	Lab Matrix: Air
	Sampled By: Cassandra Walker	Sample Type: Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-01		Client Sample Name: ROUX07-20231207, 12/8/2023 11:09:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.26	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.099	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.034	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.17	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.53	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.084	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.034	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.12	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	79.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-01	Client Sample Name: ROUX07-20231207, 12/8/2023 11:09:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/11/23 08:57	12/11/23 22:59	BEP	MS-A1	1	B179831 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-02		Client Sample Name: ROUX06-20231207, 12/8/2023 11:01:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.17	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.037	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.19	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.098	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.037	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.13	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	78.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-02	Client Sample Name: ROUX06-20231207, 12/8/2023 11:01:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/11/23 08:57	12/11/23 23:36		BEP	MS-A1	1	B179831	EPA TO-15

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-03		Client Sample Name: ROUXB02-20231207, 12/8/2023 10:49:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.10	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.039	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.17	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.088	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.034	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.12	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	80.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-03	Client Sample Name: ROUXB02-20231207, 12/8/2023 10:49:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 00:13	BEP	MS-A1	1	B179831 EPA TO-15

DCN = Data Continuation Number

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-04		Client Sample Name: ROUX05-20231207, 12/8/2023 9:47:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.23	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.082	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.039	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.16	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.10	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.039	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.14	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	79.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-04	Client Sample Name: ROUX05-20231207, 12/8/2023 9:47:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 00:50		BEP	MS-A1	1	B179831	EPA TO-15

DCN = Data Continuation Number



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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-05		Client Sample Name: ROUXB01-20231207, 12/8/2023 9:56:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.25	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.10	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.061	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.31	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.22	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.088	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.31	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	81.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-05	Client Sample Name: ROUXB01-20231207, 12/8/2023 9:56:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 01:27	BEP	MS-A1	1	B179831 EPA TO-15

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 Long Beach, CA 90804

Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322806-06		Client Sample Name:	ROUX04-20231207, 12/8/2023 10:05:00AM, Cassandra Walker				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.26	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.72	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.062	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.27	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.18	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.068	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.25	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	78.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-06	Client Sample Name: ROUX04-20231207, 12/8/2023 10:05:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 02:06		BEP	MS-A1	1	B179831	EPA TO-15

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-07		Client Sample Name: ROUX02-20231207, 12/8/2023 10:35:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.27	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.32	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.055	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.24	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.16	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.063	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.23	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	76.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-07	Client Sample Name: ROUX02-20231207, 12/8/2023 10:35:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 02:44	BEP	MS-A1	1	B179831 EPA TO-15

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 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-08		Client Sample Name: ROUX03-20231207, 12/8/2023 10:15:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.29	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.22	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.40	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.32	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.44	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	84.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-08	Client Sample Name: ROUX03-20231207, 12/8/2023 10:15:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 03:22		BEP	MS-A1	1	B179831	EPA TO-15

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-09		Client Sample Name: ROUX01-20231207, 12/8/2023 10:20:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.27	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.16	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.048	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.28	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.12	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.043	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.16	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	79.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-09	Client Sample Name: ROUX01-20231207, 12/8/2023 10:20:00AM, Cassandra Walker
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 04:00	BEP	MS-A1	1	B179831 EPA TO-15

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2322806-10		Client Sample Name: ROUX01-20231207-D, 12/8/2023 10:21:00AM, Cassandra Walker						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.077	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.028	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.14	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.073	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.031	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.10	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	75.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-10	Client Sample Name: ROUX01-20231207-D, 12/8/2023 10:21:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 04:39		BEP	MS-A1	1	B179831	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2322806-11		Client Sample Name:	ROUXB02-20231207-D, 12/8/2023 9:41:00AM, Cassandra Walker				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.12	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.054	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.32	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.19	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.069	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.26	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	73.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2322806-11	Client Sample Name: ROUXB02-20231207-D, 12/8/2023 9:41:00AM, Cassandra Walker
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/11/23 08:57	12/12/23 05:17		BEP	MS-A1	1	B179831	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179831							
Benzene	B179831-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B179831-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B179831-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B179831-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B179831-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B179831-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B179831-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B179831-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B179831-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B179831-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B179831-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B179831-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B179831-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B179831-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B179831-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B179831-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B179831-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B179831-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B179831-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B179831-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B179831-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B179831-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B179831-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B179831-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B179831-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B179831-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B179831-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B179831-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B179831-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B179831-BLK1	77.1	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179831-BLK1	PB	EPA-TO-15-SIM	12/11/23	12/11/23 13:13	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179831											
Benzene	B179831-BS1	LCS	0.26453	0.31948	ug/m3	82.8		70 - 130			1
	B179831-BSD1	LCSD	0.27060	0.31948	ug/m3	84.7	2.3	70 - 130	30		2
Benzyl chloride	B179831-BS1	LCS	0.46833	0.51772	ug/m3	90.5		70 - 130		J	1
	B179831-BSD1	LCSD	0.45927	0.51772	ug/m3	88.7	2.0	70 - 130	30	J	2
Carbon tetrachloride	B179831-BS1	LCS	0.60032	0.62913	ug/m3	95.4		70 - 130			1
	B179831-BSD1	LCSD	0.60183	0.62913	ug/m3	95.7	0.3	70 - 130	30		2
Chlorobenzene	B179831-BS1	LCS	0.44885	0.46036	ug/m3	97.5		70 - 130			1
	B179831-BSD1	LCSD	0.45492	0.46036	ug/m3	98.8	1.3	70 - 130	30		2
Chloroform	B179831-BS1	LCS	0.44734	0.48825	ug/m3	91.6		70 - 130			1
	B179831-BSD1	LCSD	0.44900	0.48825	ug/m3	92.0	0.4	70 - 130	30		2
1,2-Dibromoethane	B179831-BS1	LCS	0.77257	0.76835	ug/m3	101		70 - 130			1
	B179831-BSD1	LCSD	0.77918	0.76835	ug/m3	101	0.9	70 - 130	30		2
1,2-Dichlorobenzene	B179831-BS1	LCS	0.61350	0.60124	ug/m3	102		70 - 130			1
	B179831-BSD1	LCSD	0.60454	0.60124	ug/m3	101	1.5	70 - 130	30		2
1,3-Dichlorobenzene	B179831-BS1	LCS	0.63316	0.60124	ug/m3	105		70 - 130			1
	B179831-BSD1	LCSD	0.63454	0.60124	ug/m3	106	0.2	70 - 130	30		2
1,4-Dichlorobenzene	B179831-BS1	LCS	0.65673	0.60124	ug/m3	109		70 - 130			1
	B179831-BSD1	LCSD	0.66052	0.60124	ug/m3	110	0.6	70 - 130	30		2
1,1-Dichloroethane	B179831-BS1	LCS	0.36746	0.40474	ug/m3	90.8		70 - 130			1
	B179831-BSD1	LCSD	0.36257	0.40474	ug/m3	89.6	1.3	70 - 130	30		2
1,2-Dichloroethane	B179831-BS1	LCS	0.36783	0.40474	ug/m3	90.9		70 - 130			1
	B179831-BSD1	LCSD	0.36738	0.40474	ug/m3	90.8	0.1	70 - 130	30		2
1,1-Dichloroethene	B179831-BS1	LCS	0.32980	0.39649	ug/m3	83.2		70 - 130			1
	B179831-BSD1	LCSD	0.33785	0.39649	ug/m3	85.2	2.4	70 - 130	30		2
cis-1,2-Dichloroethene	B179831-BS1	LCS	0.33789	0.39649	ug/m3	85.2		70 - 130			1
	B179831-BSD1	LCSD	0.33524	0.39649	ug/m3	84.6	0.8	70 - 130	30		2
Tetrachloroethene	B179831-BS1	LCS	0.68395	0.67825	ug/m3	101		70 - 130			1
	B179831-BSD1	LCSD	0.68293	0.67825	ug/m3	101	0.1	70 - 130	30		2
Toluene	B179831-BS1	LCS	0.33445	0.37684	ug/m3	88.8		70 - 130			1
	B179831-BSD1	LCSD	0.33705	0.37684	ug/m3	89.4	0.8	70 - 130	30		2
1,1,1-Trichloroethane	B179831-BS1	LCS	0.50972	0.54562	ug/m3	93.4		70 - 130			1
	B179831-BSD1	LCSD	0.51201	0.54562	ug/m3	93.8	0.4	70 - 130	30		2
1,1,2-Trichloroethane	B179831-BS1	LCS	0.57039	0.54562	ug/m3	105		70 - 130			1
	B179831-BSD1	LCSD	0.56761	0.54562	ug/m3	104	0.5	70 - 130	30		2
Trichloroethene	B179831-BS1	LCS	0.52023	0.53737	ug/m3	96.8		70 - 130			1
	B179831-BSD1	LCSD	0.52260	0.53737	ug/m3	97.2	0.5	70 - 130	30		2

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Reported: 12/14/2023 18:27
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179831											
Vinyl chloride	B179831-BS1	LCS	0.24002	0.25562	ug/m3	93.9		70 - 130			1
	B179831-BSD1	LCSD	0.24294	0.25562	ug/m3	95.0	1.2	70 - 130	30		2
p- & m-Xylenes	B179831-BS1	LCS	0.76157	0.86843	ug/m3	87.7		70 - 130			1
	B179831-BSD1	LCSD	0.76356	0.86843	ug/m3	87.9	0.3	70 - 130	30		2
o-Xylene	B179831-BS1	LCS	0.37664	0.43421	ug/m3	86.7		70 - 130			1
	B179831-BSD1	LCSD	0.38740	0.43421	ug/m3	89.2	2.8	70 - 130	30		2
Total Xylenes	B179831-BS1	LCS	1.1382	1.3026	ug/m3	87.4		70 - 130			1
	B179831-BSD1	LCSD	1.1510	1.3026	ug/m3	88.4	1.1	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B179831-BS1	LCS	3.43	3.58	ug/m3	95.8		50 - 150			1
	B179831-BSD1	LCSD	3.45	3.58	ug/m3	96.4	0.5	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B179831-BS1	LCS	EPA-TO-15-SIM	12/11/23	12/11/23	12:04	BEP	MS-A1	1
2	B179831-BSD1	LCSD	EPA-TO-15-SIM	12/11/23	12/11/23	12:36	BEP	MS-A1	1

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Reported: 12/14/2023 18:27
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/18/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chiquita Canyon Air
Pace Work Order: 2323015
Invoice ID: B488858

Enclosed are the results of analyses for samples received by the laboratory on 12/12/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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23-23015



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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed

Barcode
2323015

Section A Required Client Information: Company: ROUX Address: 5150 E PCH, STE 450 LONG BEACH, CA 90804 Email To: AMCGURR@ROUXINC.COM Phone: 562-446-8824 / Fax		Section B Required Project Information: Report To: A. MCGUIRE Copy To: Purchase Order No.: Project Name: CHICOITA CANYON Project Number: 2471.0001L003		Section C Invoice Information: Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM) Company Name: ROUX Address: 5150 E PCH #450, LONG BEACH, CA 90804 Fax/Quote Reference: 00148192 Phase Project Manager/States Rep: Brian Schatz Phase Profile #:		Page: 1 of 1 <input type="checkbox"/> JST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other Location of Sampling by State _____ Report Level: I II III IV _____ Other _____											
ITEM #	*Section D Required Client Information	METHOD CODE	COLLECTED		Summa Can Number	Flow Control Number	Pace Lab ID	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS					
			DATE	TIME				DATE	TIME	DATE	TIME	DATE	TIME	Temp in °C	Received on	Sealed Cooler	Samples Intact
1	ROUX07-2023 12-11	ELC	12/11/23	12:12	1051	74	X										
2	ROUX08-2023 12-11	ELC	12/11/23	12:25	0943	86	X										
3	ROUX02-2023 12-11	ELC	12/11/23	12:40	1030	29	X										
4	ROUX05-2023 12-11	ELC	12/11/23	12:54	1109	59	X										
5	ROUX01-2023 12-11	ELC	12/11/23	13:06	1230	82	X										
6	ROUX04-2023 12-11	ELC	12/11/23	13:16	1120	40	X										
7	ROUX02-2023 12-11	ELC	12/11/23	13:24	1127	89	X										
8	ROUX03-2023 12-11	ELC	12/11/23	13:31	1134	94	X										
9	ROUX01-2023 12-11	ELC	12/11/23	13:36	1016	10	X										
10	ROUX07 -2023 12-11 -0 -10	ELC	12/11/23	12:38	1052	74	X										
11	ROUX08 2 -2023 12-11 -0 -11	ELC	12/11/23	12:41	1031	05	X										

Comments:
 1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6396
 F0046Rev.01, 03F-602010

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page Of 2							
Submission #: <u>23-23015</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> Non <input checked="" type="checkbox"/> Comments: _____ <small>Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/></small>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____		Date/Time <u>12/12/23</u>							
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp</u> °C		Analyst Init <u>MPI 1845</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1 2 3 4 5 6 7 8 9 10									
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 505/05.1/801A											
QT EPA 515.1/8151A											
QT EPA 515.2											
QT EPA 515.3 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLIPEVE											
PCH VIAL											
PLASTIC BAG											
TEFLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER		A	A	A	A	A	A	A	A	A	A

CHIEF
MPL
SUB OUT

Comments: _____
 Sample Numbering Completed By: MPI Date/Time: 12/12/23 1955
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 2 Of 2							
Submission #: <u>23-23015</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ <small>Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/></small>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: (A) <u>Room</u> °C / (C) Temp _____ °C		Date/Time <u>12/12/23</u> Analyst Init <u>MPI 1845</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PCA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL - 504											
QT EPA 503/603.3/8081A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER	A										

Comments: _____
 Sample Numbering Completed By: MPI Date/Time: 12/12/23 1955
 A = Actual / C = Corrected Rev 23 05/20/22
 I:\MPCDoc\WordPerfect\LAB_DOC\SPDR\US\SAMR\REV 20



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	
2323015-01	COC Number:	---		12/12/2023	18:45
	Project Number:	---		Sampling Date:	12/11/2023 12:12
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX07-20231211		Lab Matrix:	Air
	Sampled By:	Peter Grimmatt		Sample Type:	Vapor or Air
2323015-02	COC Number:	---		12/12/2023	18:45
	Project Number:	---		Sampling Date:	12/11/2023 12:25
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX06-20231211		Lab Matrix:	Air
	Sampled By:	Peter Grimmatt		Sample Type:	Vapor or Air
2323015-03	COC Number:	---		12/12/2023	18:45
	Project Number:	---		Sampling Date:	12/11/2023 12:40
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB02-20231211		Lab Matrix:	Air
	Sampled By:	Peter Grimmatt		Sample Type:	Vapor or Air
2323015-04	COC Number:	---		12/12/2023	18:45
	Project Number:	---		Sampling Date:	12/11/2023 12:54
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX05-20231211		Lab Matrix:	Air
	Sampled By:	Peter Grimmatt		Sample Type:	Vapor or Air
2323015-05	COC Number:	---		12/12/2023	18:45
	Project Number:	---		Sampling Date:	12/11/2023 13:06
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB01-20231211		Lab Matrix:	Air
	Sampled By:	Peter Grimmatt		Sample Type:	Vapor or Air
2323015-06	COC Number:	---		12/12/2023	18:45
	Project Number:	---		Sampling Date:	12/11/2023 13:16
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX04-20231211		Lab Matrix:	Air
	Sampled By:	Peter Grimmatt		Sample Type:	Vapor or Air
2323015-07	COC Number:	---		12/12/2023	18:45
	Project Number:	---		Sampling Date:	12/11/2023 13:24
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX02-20231211		Lab Matrix:	Air
	Sampled By:	Peter Grimmatt		Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2323015-08	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/11/2023 13:31
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231211	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2323015-09	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/11/2023 13:36
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231211	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2323015-10	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/11/2023 12:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231211-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air
2323015-11	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/11/2023 12:41
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231211-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmatt	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-01		Client Sample Name: ROUX07-20231211, 12/11/2023 12:12:00PM, Peter Grimmatt						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.57	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.27	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.84	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	80.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-01	Client Sample Name: ROUX07-20231211, 12/11/2023 12:12:00PM, Peter Grimmert
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/13/23 08:05	12/13/23 22:37	BEP	MS-A1	1	B180066 EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-02		Client Sample Name: ROUX06-20231211, 12/11/2023 12:25:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.92	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.65	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.31	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.42	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-02	Client Sample Name: ROUX06-20231211, 12/11/2023 12:25:00PM, Peter Grimmert
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/13/23	23:14	BEP	MS-A1	1	B180066	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-03		Client Sample Name: ROUXB02-20231211, 12/11/2023 12:40:00PM, Peter Grimm						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.98	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.5	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.79	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.27	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	79.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-03	Client Sample Name: ROUXB02-20231211, 12/11/2023 12:40:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/13/23	23:52	BEP	MS-A1	1	B180066	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-04		Client Sample Name: ROUX05-20231211, 12/11/2023 12:54:00PM, Peter Grimmett						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.87	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.32	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.29	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	78.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-04	Client Sample Name: ROUX05-20231211, 12/11/2023 12:54:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23 00:29		BEP	MS-A1	1	B180066	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323015-05	Client Sample Name:	ROUXB01-20231211, 12/11/2023 1:06:00PM, Peter Grimmert					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.46	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.88	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.56	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.20	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.77	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	83.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-05	Client Sample Name: ROUXB01-20231211, 12/11/2023 1:06:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23 01:07		BEP	MS-A1	1	B180066	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-06		Client Sample Name: ROUX04-20231211, 12/11/2023 1:16:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.2	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.79	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.37	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.7	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.42	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	85.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-06	Client Sample Name: ROUX04-20231211, 12/11/2023 1:16:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23	01:44	BEP	MS-A1	1	B180066	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-07		Client Sample Name: ROUX02-20231211, 12/11/2023 1:24:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.45	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.27	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.3	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.84	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.29	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	84.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-07	Client Sample Name: ROUX02-20231211, 12/11/2023 1:24:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23 02:22	BEP	MS-A1	1	B180066 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-08		Client Sample Name: ROUX03-20231211, 12/11/2023 1:31:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.49	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.38	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	1.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.38	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-08	Client Sample Name: ROUX03-20231211, 12/11/2023 1:31:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23 02:59		BEP	MS-A1	1	B180066	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-09		Client Sample Name: ROUX01-20231211, 12/11/2023 1:36:00PM, Peter Grimmert						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.69	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.29	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.58	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.37	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.50	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	79.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-09	Client Sample Name: ROUX01-20231211, 12/11/2023 1:36:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23	03:37	BEP	MS-A1	1	B180066	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-10		Client Sample Name: ROUX07-20231211-D, 12/11/2023 12:13:00PM, Peter Grimm						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.2	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.58	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.90	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.31	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	78.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-10	Client Sample Name: ROUX07-20231211-D, 12/11/2023 12:13:00PM, Peter Grimmatt
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23 04:14		BEP	MS-A1	1	B180066	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323015-11		Client Sample Name: ROUXB02-20231211-D, 12/11/2023 12:41:00PM, Peter Grimmatt						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	1.6	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.4	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.88	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.30	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	82.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323015-11	Client Sample Name: ROUXB02-20231211-D, 12/11/2023 12:41:00PM, Peter Grimmert
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:05	12/14/23 04:51		BEP	MS-A1	1	B180066	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B180066							
Benzene	B180066-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B180066-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B180066-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B180066-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B180066-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B180066-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B180066-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B180066-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B180066-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B180066-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B180066-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B180066-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B180066-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B180066-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B180066-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B180066-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B180066-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B180066-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B180066-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B180066-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B180066-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B180066-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B180066-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B180066-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B180066-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B180066-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B180066-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B180066-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B180066-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B180066-BLK1	75.3	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B180066-BLK1	PB	EPA-TO-15-SIM	12/13/23	12/13/23 19:41	BEP	MS-A1	1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B180066											
Benzene	B180066-BS1	LCS	0.30504	0.31948	ug/m3	95.5		70 - 130			1
	B180066-BSD1	LCSD	0.29794	0.31948	ug/m3	93.3	2.4	70 - 130	30		2
Benzyl chloride	B180066-BS1	LCS	0.44027	0.51772	ug/m3	85.0		70 - 130		J	1
	B180066-BSD1	LCSD	0.41889	0.51772	ug/m3	80.9	5.0	70 - 130	30	J	2
Carbon tetrachloride	B180066-BS1	LCS	0.69135	0.62913	ug/m3	110		70 - 130			1
	B180066-BSD1	LCSD	0.67997	0.62913	ug/m3	108	1.7	70 - 130	30		2
Chlorobenzene	B180066-BS1	LCS	0.50464	0.46036	ug/m3	110		70 - 130			1
	B180066-BSD1	LCSD	0.48190	0.46036	ug/m3	105	4.6	70 - 130	30		2
Chloroform	B180066-BS1	LCS	0.51838	0.48825	ug/m3	106		70 - 130			1
	B180066-BSD1	LCSD	0.50500	0.48825	ug/m3	103	2.6	70 - 130	30		2
1,2-Dibromoethane	B180066-BS1	LCS	0.87861	0.76835	ug/m3	114		70 - 130			1
	B180066-BSD1	LCSD	0.82697	0.76835	ug/m3	108	6.1	70 - 130	30		2
1,2-Dichlorobenzene	B180066-BS1	LCS	0.66250	0.60124	ug/m3	110		70 - 130			1
	B180066-BSD1	LCSD	0.67777	0.60124	ug/m3	113	2.3	70 - 130	30		2
1,3-Dichlorobenzene	B180066-BS1	LCS	0.69984	0.60124	ug/m3	116		70 - 130			1
	B180066-BSD1	LCSD	0.67675	0.60124	ug/m3	113	3.4	70 - 130	30		2
1,4-Dichlorobenzene	B180066-BS1	LCS	0.68487	0.60124	ug/m3	114		70 - 130			1
	B180066-BSD1	LCSD	0.63941	0.60124	ug/m3	106	6.9	70 - 130	30		2
1,1-Dichloroethane	B180066-BS1	LCS	0.41437	0.40474	ug/m3	102		70 - 130			1
	B180066-BSD1	LCSD	0.41142	0.40474	ug/m3	102	0.7	70 - 130	30		2
1,2-Dichloroethane	B180066-BS1	LCS	0.41753	0.40474	ug/m3	103		70 - 130			1
	B180066-BSD1	LCSD	0.40830	0.40474	ug/m3	101	2.2	70 - 130	30		2
1,1-Dichloroethene	B180066-BS1	LCS	0.37675	0.39649	ug/m3	95.0		70 - 130			1
	B180066-BSD1	LCSD	0.37310	0.39649	ug/m3	94.1	1.0	70 - 130	30		2
cis-1,2-Dichloroethene	B180066-BS1	LCS	0.37330	0.39649	ug/m3	94.2		70 - 130			1
	B180066-BSD1	LCSD	0.37167	0.39649	ug/m3	93.7	0.4	70 - 130	30		2
Tetrachloroethene	B180066-BS1	LCS	0.78094	0.67825	ug/m3	115		70 - 130			1
	B180066-BSD1	LCSD	0.75964	0.67825	ug/m3	112	2.8	70 - 130	30		2
Toluene	B180066-BS1	LCS	0.38009	0.37684	ug/m3	101		70 - 130			1
	B180066-BSD1	LCSD	0.37108	0.37684	ug/m3	98.5	2.4	70 - 130	30		2
1,1,1-Trichloroethane	B180066-BS1	LCS	0.58654	0.54562	ug/m3	108		70 - 130			1
	B180066-BSD1	LCSD	0.57219	0.54562	ug/m3	105	2.5	70 - 130	30		2
1,1,2-Trichloroethane	B180066-BS1	LCS	0.65971	0.54562	ug/m3	121		70 - 130			1
	B180066-BSD1	LCSD	0.62457	0.54562	ug/m3	114	5.5	70 - 130	30		2
Trichloroethene	B180066-BS1	LCS	0.60632	0.53737	ug/m3	113		70 - 130			1
	B180066-BSD1	LCSD	0.58160	0.53737	ug/m3	108	4.2	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B180066											
Vinyl chloride	B180066-BS1	LCS	0.28432	0.25562	ug/m3	111		70 - 130			1
	B180066-BSD1	LCSD	0.27568	0.25562	ug/m3	108	3.1	70 - 130		30	2
p- & m-Xylenes	B180066-BS1	LCS	0.83304	0.86843	ug/m3	95.9		70 - 130			1
	B180066-BSD1	LCSD	0.84524	0.86843	ug/m3	97.3	1.5	70 - 130		30	2
o-Xylene	B180066-BS1	LCS	0.41962	0.43421	ug/m3	96.6		70 - 130			1
	B180066-BSD1	LCSD	0.42288	0.43421	ug/m3	97.4	0.8	70 - 130		30	2
Total Xylenes	B180066-BS1	LCS	1.2527	1.3026	ug/m3	96.2		70 - 130			1
	B180066-BSD1	LCSD	1.2681	1.3026	ug/m3	97.4	1.2	70 - 130		30	2
4-Bromofluorobenzene (Surrogate)	B180066-BS1	LCS	3.37	3.58	ug/m3	94.1		50 - 150			1
	B180066-BSD1	LCSD	3.21	3.58	ug/m3	89.6	4.9	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B180066-BS1	LCS	EPA-TO-15-SIM	12/13/23	12/13/23	18:31	BEP	MS-A1	1
2	B180066-BSD1	LCSD	EPA-TO-15-SIM	12/13/23	12/13/23	19:05	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/14/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chaquita Canyon Air
Pace Work Order: 2323016
Invoice ID: B488857

Enclosed are the results of analyses for samples received by the laboratory on 12/12/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "BS", is positioned above a horizontal line.

Contact Person: Brianna Schutte
Client Services Rep

A handwritten signature in black ink, appearing to read "Stuart Buttram", is positioned above a horizontal line.

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2323016

AIR: CHAIN-OF-CUSTODY / Analytical

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

2G-1A



23-23016

Section A
Required Client Information:
Company: ROUX
Address: 6160 E POH, STE 450
LONG BEACH, CA 90804
Email To: AMCGUIRE@ROUXINC.COM
Phone: 562-446-8624 Fax
Responsible Due Diligence: 12/18/23

Section B
Required Project Information:
Report To: A. MCGUIRE
Copy To:
Address: 5150 E POH #450, LONG BEACH, CA 90804
Pace Quota Reference: 00148192
Pace Project Management/Station Rep. Brian Schults
Pace Profile #:

Section C
Invoice Information:
Client Name: ROUX
Company Name: ROUX
Company Address: 5150 E POH #450, LONG BEACH, CA 90804
Pace Quota Reference: 00148192
Pace Project Management/Station Rep. Brian Schults
Pace Profile #:

Section D Required Client Information
AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

ITEM #	ROUX CODE	RELINQUISHED BY / AFFILIATION		DATE		ACCEPTED BY / AFFILIATION		DATE		Summa Can Number	Flow Control Number	Pace Lab ID
		DATE	TIME	DATE	TIME	DATE	TIME					
1	ROUX07-2023 1209											
2	ROUX06-2023 1709											
3	ROUX02-2023 1209											
4	ROUX05-2023 1709											
5	ROUX01-2023 1709											
6	ROUX04-2023 1209											
7	ROUX02-2023 1709											
8	ROUX03-2023 1709											
9	ROUX01-2023 1209											
10	ROUX03-2023 1709											
11	ROUX02-2023 1709											
12												

Method: TO-15 (MO) **Flow Control Number:** 1015007

Sample Conditions: Temp in °C, Recovered on Ice, Sealed Cooler, Samples Intact

Comments: 1/12/24

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>2</u>	
Submission #: <u>23-23016</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments:					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match CDC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____		Date/Time <u>12/12/23</u>	
		Temperature: (A) <u>Room</u> °C / (C) Temp °C		Analyst Init <u>MPI 1845</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PhA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/608.3/6881A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 3015M										
QT EPA 3270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER	A	A	A	A	A	A	A	A	A	A

DISTRIBUTION
 DATE: 12/12/23
 TIME: 14:57
 BY: MPI
 SUBJECT:

Comments: _____
 Sample Numbering Completed By: MPI Date/Time: 12/12/23 1457
 A = Actual / C = Corrected

Rev 23 05/20/22
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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>							
Submission #: <u>23-23016</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S							
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>SUMMA</u> Thermometer ID: _____ Temperature: <u>(A) Room °C / (C) Temp °C</u>		Date/Time <u>12/12/23</u> Analyst Init <u>MPI 1845</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PCA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/508.3/5081A											
QT EPA 515.1/5151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.3											
QT EPA 891SM											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz IAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments: _____
 Sample Numbering Completed By: MPI Date/Time: 12/12/23 1957
 A = Actual / C = Corrected

Rev 23 06/20/22

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
2323016-01	COC Number:	---		Receive Date:	12/12/2023 18:45
	Project Number:	---		Sampling Date:	12/09/2023 12:40
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX07-20231209		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
2323016-02	COC Number:	---		Receive Date:	12/12/2023 18:45
	Project Number:	---		Sampling Date:	12/09/2023 12:52
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX06-20231209		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
2323016-03	COC Number:	---		Receive Date:	12/12/2023 18:45
	Project Number:	---		Sampling Date:	12/09/2023 13:01
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB02-20231209		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
2323016-04	COC Number:	---		Receive Date:	12/12/2023 18:45
	Project Number:	---		Sampling Date:	12/09/2023 13:14
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX05-20231209		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
2323016-05	COC Number:	---		Receive Date:	12/12/2023 18:45
	Project Number:	---		Sampling Date:	12/09/2023 13:22
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUXB01-20231209		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
2323016-06	COC Number:	---		Receive Date:	12/12/2023 18:45
	Project Number:	---		Sampling Date:	12/09/2023 13:30
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX04-20231209		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air
2323016-07	COC Number:	---		Receive Date:	12/12/2023 18:45
	Project Number:	---		Sampling Date:	12/09/2023 13:38
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	ROUX02-20231209		Lab Matrix:	Air
	Sampled By:	Client		Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2323016-08	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/09/2023 13:42
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231209	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323016-09	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/09/2023 13:51
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231209	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323016-10	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/09/2023 13:43
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231209-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323016-11	COC Number:	---	Receive Date:	12/12/2023 18:45
	Project Number:	---	Sampling Date:	12/09/2023 13:02
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231209-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323016-01		Client Sample Name: ROUX07-20231209, 12/9/2023 12:40:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.26	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.096	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.086	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.11	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	ND	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.17	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.052	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.052	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	81.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-01	Client Sample Name: ROUX07-20231209, 12/9/2023 12:40:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23 09:44		BEP	MS-A1	1	B179968	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323016-02		Client Sample Name: ROUX06-20231209, 12/9/2023 12:52:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.30	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.54	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.089	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.089	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.13	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.059	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.31	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.16	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.059	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.22	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	73.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-02	Client Sample Name: ROUX06-20231209, 12/9/2023 12:52:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23 10:21		BEP	MS-A1	1	B179968	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323016-03		Client Sample Name: ROUXB02-20231209, 12/9/2023 1:01:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.25	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.53	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.085	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.058	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.025	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.19	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.063	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.027	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.090	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	80.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-03	Client Sample Name: ROUXB02-20231209, 12/9/2023 1:01:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23 10:58		BEP	MS-A1	1	B179968	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323016-04		Client Sample Name: ROUX05-20231209, 12/9/2023 1:14:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.54	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.098	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.051	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.030	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	0.067	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND	J	1
Toluene	0.15	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.071	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.042	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.11	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-04	Client Sample Name: ROUX05-20231209, 12/9/2023 1:14:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23	11:36	BEP	MS-A1	1	B179968	EPA TO-15

DCN = Data Continuation Number

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323016-05		Client Sample Name: ROUXB01-20231209, 12/9/2023 1:22:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.23	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.54	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.085	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.022	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.12	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.044	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND	J	1
o-Xylene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.044	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	79.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-05	Client Sample Name: ROUXB01-20231209, 12/9/2023 1:22:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23	12:14	BEP	MS-A1	1	B179968	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323016-06	Client Sample Name:	ROUX04-20231209, 12/9/2023 1:30:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.37	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.56	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.085	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.092	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.066	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.034	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	0.32	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.32	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.092	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.034	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.13	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	75.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-06	Client Sample Name: ROUX04-20231209, 12/9/2023 1:30:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23	12:51	BEP	MS-A1	1	B179968	EPA TO-15

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Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323016-07	Client Sample Name:	ROUX02-20231209, 12/9/2023 1:38:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.27	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.54	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.085	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.065	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.071	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.20	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.26	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.083	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.35	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	74.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-07	Client Sample Name: ROUX02-20231209, 12/9/2023 1:38:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23	13:29	BEP	MS-A1	1	B179968	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323016-08	Client Sample Name:	ROUX03-20231209, 12/9/2023 1:42:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.087	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.054	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.028	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.13	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.059	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.023	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.081	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	79.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-08	Client Sample Name: ROUX03-20231209, 12/9/2023 1:42:00PM, Client
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DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23 14:06	BEP	MS-A1	1	B179968 EPA TO-15

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323016-09		Client Sample Name:	ROUX01-20231209, 12/9/2023 1:51:00PM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.23	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.54	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.082	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.063	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.022	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.12	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.047	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND	J	1
o-Xylene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.047	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	78.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-09	Client Sample Name: ROUX01-20231209, 12/9/2023 1:51:00PM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23	14:44	BEP	MS-A1	1	B179968	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323016-10		Client Sample Name: ROUX03-20231209-D, 12/9/2023 1:43:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.25	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.086	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.087	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.055	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.033	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.16	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.068	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.027	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.095	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND	J	1
4-Bromofluorobenzene (Surrogate)	78.8	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-10	Client Sample Name: ROUX03-20231209-D, 12/9/2023 1:43:00PM, Client
----------------------------------	---

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23 15:21	BEP	MS-A1	1	B179968 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323016-11	Client Sample Name:	ROUXB02-20231209-D, 12/9/2023 1:02:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.31	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.55	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	0.093	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	0.088	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND	J	1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.062	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.035	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	0.16	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.37	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.090	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.030	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.12	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	69.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323016-11	Client Sample Name: ROUXB02-20231209-D, 12/9/2023 1:02:00PM, Client
----------------------------------	--

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-TO-15-SIM	12/13/23 08:44	12/13/23 15:59	BEP	MS-A1	1	B179968 EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B179968							
Benzene	B179968-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B179968-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B179968-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B179968-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B179968-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B179968-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B179968-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B179968-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B179968-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B179968-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B179968-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B179968-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B179968-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B179968-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B179968-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B179968-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B179968-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B179968-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B179968-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B179968-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B179968-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B179968-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B179968-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B179968-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B179968-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B179968-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B179968-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B179968-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B179968-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B179968-BLK1	72.8	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B179968-BLK1	PB	EPA-TO-15-SIM	12/11/23	12/12/23 20:48	BEP	MS-A1	1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179968											
Benzene	B179968-BS1	LCS	0.28753	0.31948	ug/m3	90.0		70 - 130			1
	B179968-BSD1	LCSD	0.29721	0.31948	ug/m3	93.0	3.3	70 - 130	30		2
Benzyl chloride	B179968-BS1	LCS	0.46626	0.51772	ug/m3	90.1		70 - 130		J	1
	B179968-BSD1	LCSD	0.46450	0.51772	ug/m3	89.7	0.4	70 - 130	30	J	2
Carbon tetrachloride	B179968-BS1	LCS	0.66059	0.62913	ug/m3	105		70 - 130			1
	B179968-BSD1	LCSD	0.66883	0.62913	ug/m3	106	1.2	70 - 130	30		2
Chlorobenzene	B179968-BS1	LCS	0.48655	0.46036	ug/m3	106		70 - 130			1
	B179968-BSD1	LCSD	0.49382	0.46036	ug/m3	107	1.5	70 - 130	30		2
Chloroform	B179968-BS1	LCS	0.48928	0.48825	ug/m3	100		70 - 130			1
	B179968-BSD1	LCSD	0.49426	0.48825	ug/m3	101	1.0	70 - 130	30		2
1,2-Dibromoethane	B179968-BS1	LCS	0.84495	0.76835	ug/m3	110		70 - 130			1
	B179968-BSD1	LCSD	0.85217	0.76835	ug/m3	111	0.9	70 - 130	30		2
1,2-Dichlorobenzene	B179968-BS1	LCS	0.67158	0.60124	ug/m3	112		70 - 130			1
	B179968-BSD1	LCSD	0.66743	0.60124	ug/m3	111	0.6	70 - 130	30		2
1,3-Dichlorobenzene	B179968-BS1	LCS	0.67368	0.60124	ug/m3	112		70 - 130			1
	B179968-BSD1	LCSD	0.68451	0.60124	ug/m3	114	1.6	70 - 130	30		2
1,4-Dichlorobenzene	B179968-BS1	LCS	0.69437	0.60124	ug/m3	115		70 - 130			1
	B179968-BSD1	LCSD	0.72238	0.60124	ug/m3	120	4.0	70 - 130	30		2
1,1-Dichloroethane	B179968-BS1	LCS	0.40247	0.40474	ug/m3	99.4		70 - 130			1
	B179968-BSD1	LCSD	0.40170	0.40474	ug/m3	99.2	0.2	70 - 130	30		2
1,2-Dichloroethane	B179968-BS1	LCS	0.40470	0.40474	ug/m3	100		70 - 130			1
	B179968-BSD1	LCSD	0.40397	0.40474	ug/m3	99.8	0.2	70 - 130	30		2
1,1-Dichloroethene	B179968-BS1	LCS	0.36101	0.39649	ug/m3	91.1		70 - 130			1
	B179968-BSD1	LCSD	0.36628	0.39649	ug/m3	92.4	1.5	70 - 130	30		2
cis-1,2-Dichloroethene	B179968-BS1	LCS	0.36029	0.39649	ug/m3	90.9		70 - 130			1
	B179968-BSD1	LCSD	0.37163	0.39649	ug/m3	93.7	3.1	70 - 130	30		2
Tetrachloroethene	B179968-BS1	LCS	0.74777	0.67825	ug/m3	110		70 - 130			1
	B179968-BSD1	LCSD	0.74967	0.67825	ug/m3	111	0.3	70 - 130	30		2
Toluene	B179968-BS1	LCS	0.36889	0.37684	ug/m3	97.9		70 - 130			1
	B179968-BSD1	LCSD	0.36806	0.37684	ug/m3	97.7	0.2	70 - 130	30		2
1,1,1-Trichloroethane	B179968-BS1	LCS	0.56068	0.54562	ug/m3	103		70 - 130			1
	B179968-BSD1	LCSD	0.56439	0.54562	ug/m3	103	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B179968-BS1	LCS	0.62577	0.54562	ug/m3	115		70 - 130			1
	B179968-BSD1	LCSD	0.61950	0.54562	ug/m3	114	1.0	70 - 130	30		2
Trichloroethene	B179968-BS1	LCS	0.58187	0.53737	ug/m3	108		70 - 130			1
	B179968-BSD1	LCSD	0.57413	0.53737	ug/m3	107	1.3	70 - 130	30		2

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 Long Beach, CA 90804

Reported: 12/14/2023 8:14
 Project: Chaquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B179968											
Vinyl chloride	B179968-BS1	LCS	0.26385	0.25562	ug/m3	103		70 - 130			1
	B179968-BSD1	LCSD	0.26303	0.25562	ug/m3	103	0.3	70 - 130	30		2
p- & m-Xylenes	B179968-BS1	LCS	0.83551	0.86843	ug/m3	96.2		70 - 130			1
	B179968-BSD1	LCSD	0.82991	0.86843	ug/m3	95.6	0.7	70 - 130	30		2
o-Xylene	B179968-BS1	LCS	0.41567	0.43421	ug/m3	95.7		70 - 130			1
	B179968-BSD1	LCSD	0.41532	0.43421	ug/m3	95.7	0.1	70 - 130	30		2
Total Xylenes	B179968-BS1	LCS	1.2512	1.3026	ug/m3	96.0		70 - 130			1
	B179968-BSD1	LCSD	1.2452	1.3026	ug/m3	95.6	0.5	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B179968-BS1	LCS	3.35	3.58	ug/m3	93.7		50 - 150			1
	B179968-BSD1	LCSD	3.38	3.58	ug/m3	94.4	0.7	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B179968-BS1	LCS	EPA-TO-15-SIM	12/11/23	12/12/23	19:39	BEP	MS-A1	1
2	B179968-BSD1	LCSD	EPA-TO-15-SIM	12/11/23	12/12/23	20:12	BEP	MS-A1	1

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5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/14/2023 8:14
Project: Chaquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/18/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chiquita Canyon Air
Pace Work Order: 2323261
Invoice ID: B489167

Enclosed are the results of analyses for samples received by the laboratory on 12/14/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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AIR: CHAIN-OF-CUSTODY / Analytical Req
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

23-23261

23-23261

Page: 1 of 1

Program: UST Superfund Emissions Clean Air Act Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: AK HI IL IN IA KS KY LA MA MD MI MN MO MS MT NE NH NJ NY OH OK OR PA RI SC SD TN TX VA VT WA WI WY

Report Level: I, II, III, IV, Other

Method: TO-15 SIM (NOC)

Flow Control Number: _____

Summa Can Number: _____

Center Pressure (Initial Field - psig): _____

Center Pressure (Final Field - psig): _____

COLLECTED

ITEM #	AIR SAMPLE ID	Sample IDs MUST BE UNIQUE	MEDIA CODE	PFD Reading (Clean only)	COMPOSITE		DATE	TIME	DATE	TIME	CONTROL NUMBER	SUMMA CAN NUMBER	CENTER PRESSURE (INITIAL FIELD - PSIG)	CENTER PRESSURE (FINAL FIELD - PSIG)	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
					START	END												
1	ROUX07-2023 1213		ELC				12/13/23	1210	12/13/23	1216	0786	1389	-30	-6	[Signature]	12/13/23	1235	Temp in °C
2	ROUX06-2023 1213		ELC				12/13/23	1218	12/13/23	1230	813	1368	-29	-6	[Signature]	12/13/23	1830	Temp in °C
3	ROUX02-2023 1213		ELC				12/13/23	1228	12/13/23	1240	2776	1052	-30	-6	[Signature]	12/13/23	1830	Temp in °C
4	ROUX05-2023 1213		ELC				12/13/23	1237	12/13/23	1251	2756	0763	-30	-6	[Signature]	12/13/23	1830	Temp in °C
5	ROUX01-2023 1213		ELC				12/13/23	1246	12/13/23	0930	204	650	-28	-2	[Signature]	12/13/23	1830	Temp in °C
6	ROUX04-2023 1213		ELC				12/13/23	1256	12/13/23	0943	074	505	-29	-5	[Signature]	12/13/23	1830	Temp in °C
7	ROUX02-2023 1213		ELC				12/13/23	1303	12/13/23	1053	077	813	-29	-6	[Signature]	12/13/23	1830	Temp in °C
8	ROUX03-2023 1213		ELC				12/13/23	1308	12/13/23	0986	073	805	-29	-3	[Signature]	12/13/23	1830	Temp in °C
9	ROUX01-2023 1213		ELC				12/13/23	1313	12/13/23	1002	073	805	-30	-6	[Signature]	12/13/23	1830	Temp in °C
10	ROUX04-2023 1213 -D		ELC				12/13/23	1316	12/13/23	0944	079	808	-30	-5	[Signature]	12/13/23	1830	Temp in °C
11	ROUX01-2023 1213 -D		ELC				12/13/23	1247	12/13/23	0931	29	3	-29	-3	[Signature]	12/13/23	1830	Temp in °C

Comments: *Please void Sample in summary Can # 400 (no tag)*

REINQUISHED BY / AFFILIATION: [Signature] DATE: 12/13/23 TIME: 1235

ACCEPTED BY / AFFILIATION: [Signature] DATE: 12/13/23 TIME: 1830

SAMPLER NAME AND SIGNATURE: *Patricia M. Smith* DATE SAMPLED: 12/13/23

CHK BY: [Signature] DISTRIBUTION: [Signature] SUB OUT: [Signature]

FC046Rev.01, 03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 2							
Submission #: 23-23261											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments:											
Custody Seals		Ice Chest <input type="checkbox"/>		Containers <input type="checkbox"/>							
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		None <input checked="" type="checkbox"/> Comments:							
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: Summer Thermometer ID: _____		Date/Time 12/14/23							
		Temperature: (A) Room °C / (C) Temp °C		Analyst Init MP 1830							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴⁺											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/608.3/8081A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 801501											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER		A	A	A	A	A	A	A	A	A	A

Comments: _____
 Sample Numbering Completed By: PPS Date/Time: 12/14/23 2:10
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>							
Submission #: <u>23-23261</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO/ GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S						
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summer</u> Thermometer ID: _____		Date/Time <u>12/14/23</u>							
		Temperature: <u>(A) Room</u> °C / <u>(C) Temp</u> °C		Analyst Init <u>MP 1830</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁴											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PtA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL - 504											
QT EPA 508/608, 38081A											
QT EPA 515, 18151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548.1											
QT EPA 549.2											
QT EPA 8015M											
QT EPA 8270C											
8oz / 16oz / 32oz AMBER											
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments: _____
 Sample Numbering Completed By: PP Date/Time: 12/14/23 210
 A = Actual / C = Corrected

Rev 23 05/20/22

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information						
2323261-01	COC Number:	---		Receive Date:	12/14/2023 18:30		
	Project Number:	---		Sampling Date:	12/13/2023 12:10		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX07-20231213			Lab Matrix:	Air	
	Sampled By:	Peter Grimmett/John Cameron			Sample Type:	Vapor or Air	
	<hr/>						
2323261-02	COC Number:	---		Receive Date:	12/14/2023 18:30		
	Project Number:	---		Sampling Date:	12/13/2023 12:18		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX06-20231213			Lab Matrix:	Air	
	Sampled By:	Peter Grimmett/John Cameron			Sample Type:	Vapor or Air	
	<hr/>						
2323261-03	COC Number:	---		Receive Date:	12/14/2023 18:30		
	Project Number:	---		Sampling Date:	12/13/2023 12:28		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUXB02-20231213			Lab Matrix:	Air	
	Sampled By:	Peter Grimmett/John Cameron			Sample Type:	Vapor or Air	
	<hr/>						
2323261-04	COC Number:	---		Receive Date:	12/14/2023 18:30		
	Project Number:	---		Sampling Date:	12/13/2023 12:37		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX05-20231213			Lab Matrix:	Air	
	Sampled By:	Peter Grimmett/John Cameron			Sample Type:	Vapor or Air	
	<hr/>						
2323261-05	COC Number:	---		Receive Date:	12/14/2023 18:30		
	Project Number:	---		Sampling Date:	12/13/2023 12:46		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUXB01-20231213			Lab Matrix:	Air	
	Sampled By:	Peter Grimmett/John Cameron			Sample Type:	Vapor or Air	
	<hr/>						
2323261-06	COC Number:	---		Receive Date:	12/14/2023 18:30		
	Project Number:	---		Sampling Date:	12/13/2023 12:56		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX04-20231213			Lab Matrix:	Air	
	Sampled By:	Peter Grimmett/John Cameron			Sample Type:	Vapor or Air	
	<hr/>						
2323261-07	COC Number:	---		Receive Date:	12/14/2023 18:30		
	Project Number:	---		Sampling Date:	12/13/2023 13:03		
	Sampling Location:	---		Sample Depth:	---		
	Sampling Point:	ROUX02-20231213			Lab Matrix:	Air	
	Sampled By:	Peter Grimmett/John Cameron			Sample Type:	Vapor or Air	

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		Receive Date:	
2323261-08	COC Number:	---	Receive Date:	12/14/2023 18:30
	Project Number:	---	Sampling Date:	12/13/2023 13:08
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX03-20231213	Lab Matrix:	Air
	Sampled By:	Peter Grimmett/John Cameron	Sample Type:	Vapor or Air
2323261-09	COC Number:	---	Receive Date:	12/14/2023 18:30
	Project Number:	---	Sampling Date:	12/13/2023 13:13
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231213	Lab Matrix:	Air
	Sampled By:	Peter Grimmett/John Cameron	Sample Type:	Vapor or Air
2323261-10	COC Number:	---	Receive Date:	12/14/2023 18:30
	Project Number:	---	Sampling Date:	12/13/2023 12:57
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231213-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmett/John Cameron	Sample Type:	Vapor or Air
2323261-11	COC Number:	---	Receive Date:	12/14/2023 18:30
	Project Number:	---	Sampling Date:	12/13/2023 12:47
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231213-D	Lab Matrix:	Air
	Sampled By:	Peter Grimmett/John Cameron	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-01		Client Sample Name: ROUX07-20231213, 12/13/2023 12:10:00PM, Peter Grimmett/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.44	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	0.53	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.44	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.87	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.52	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.70	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	81.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-01	Client Sample Name: ROUX07-20231213, 12/13/2023 12:10:00PM, Peter Grimmett/John Cameron
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/14/23	23:37	BEP	MS-A1	1	B180177	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-02		Client Sample Name: ROUX06-20231213, 12/13/2023 12:18:00PM, Peter Grimmett/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.46	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.47	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.80	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.55	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.50	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.69	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	82.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-02	Client Sample Name: ROUX06-20231213, 12/13/2023 12:18:00PM, Peter Grimmett/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 00:14		BEP	MS-A1	1	B180177	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-03		Client Sample Name: ROUXB02-20231213, 12/13/2023 12:28:00PM, Peter Grimmert/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.26	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.12	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.046	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.28	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.14	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.050	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.19	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	77.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-03	Client Sample Name: ROUXB02-20231213, 12/13/2023 12:28:00PM, Peter Grimmert/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 00:52		BEP	MS-A1	1	B180177	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-04		Client Sample Name: ROUX05-20231213, 12/13/2023 12:37:00PM, Peter Grimmett/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.37	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.35	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.87	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.54	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.82	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	93.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-04	Client Sample Name: ROUX05-20231213, 12/13/2023 12:37:00PM, Peter Grimmett/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 01:29		BEP	MS-A1	1	B180177	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-05		Client Sample Name: ROUXB01-20231213, 12/13/2023 12:46:00PM, Peter Grimmert/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.12	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.057	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.39	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.18	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.064	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.24	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	79.3	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-05	Client Sample Name: ROUXB01-20231213, 12/13/2023 12:46:00PM, Peter Grimmert/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 02:06		BEP	MS-A1	1	B180177	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-06		Client Sample Name: ROUX04-20231213, 12/13/2023 12:56:00PM, Peter Grimmett/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.57	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.58	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.90	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.69	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.24	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.93	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	82.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-06	Client Sample Name: ROUX04-20231213, 12/13/2023 12:56:00PM, Peter Grimmett/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 02:43		BEP	MS-A1	1	B180177	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-07		Client Sample Name: ROUX02-20231213, 12/13/2023 1:03:00PM, Peter Grimmett/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.47	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.31	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.70	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.54	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.51	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.18	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.69	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	81.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-07	Client Sample Name: ROUX02-20231213, 12/13/2023 1:03:00PM, Peter Grimmer/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 03:21		BEP	MS-A1	1	B180177	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-08		Client Sample Name: ROUX03-20231213, 12/13/2023 1:08:00PM, Peter Grimmett/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.61	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.50	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.19	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.2	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.61	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.22	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.82	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	80.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-08	Client Sample Name: ROUX03-20231213, 12/13/2023 1:08:00PM, Peter Grimmett/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 03:58		BEP	MS-A1	1	B180177	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-09		Client Sample Name: ROUX01-20231213, 12/13/2023 1:13:00PM, Peter Grimmett/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.55	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.27	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.082	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.41	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.24	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.081	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.32	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	77.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-09	Client Sample Name: ROUX01-20231213, 12/13/2023 1:13:00PM, Peter Grimmett/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 04:36		BEP	MS-A1	1	B180177	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-10		Client Sample Name: ROUX04-20231213-D, 12/13/2023 12:57:00PM, Peter Grimmert/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.57	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.58	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.21	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.71	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.25	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.95	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	77.9	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-10	Client Sample Name: ROUX04-20231213-D, 12/13/2023 12:57:00PM, Peter Grimmett/John Cameron
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 05:13		BEP	MS-A1	1	B180177	EPA TO-15

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Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323261-11		Client Sample Name: ROUXB01-20231213-D, 12/13/2023 12:47:00PM, Peter Grimmatt/John Cameron						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.6	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.12	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.055	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.31	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.56	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.18	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.061	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.24	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	74.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323261-11	Client Sample Name: ROUXB01-20231213-D, 12/13/2023 12:47:00PM, Peter Grimmert/John Cameron
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/14/23 19:29	12/15/23 05:51		BEP	MS-A1	1	B180177	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B180177							
Benzene	B180177-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B180177-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B180177-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B180177-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B180177-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B180177-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B180177-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B180177-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B180177-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B180177-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B180177-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B180177-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B180177-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B180177-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B180177-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B180177-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B180177-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B180177-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B180177-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B180177-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B180177-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B180177-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B180177-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B180177-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B180177-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B180177-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B180177-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B180177-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B180177-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B180177-BLK1	73.2	%	50 - 150 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B180177-BLK1	PB	EPA-TO-15-SIM	12/14/23	12/15/23 11:24	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B180177											
Benzene	B180177-BS1	LCS	0.30941	0.31948	ug/m3	96.8		70 - 130			1
	B180177-BSD1	LCSD	0.31296	0.31948	ug/m3	98.0	1.1	70 - 130	30		2
Benzyl chloride	B180177-BS1	LCS	0.41868	0.51772	ug/m3	80.9		70 - 130		J	1
	B180177-BSD1	LCSD	0.39217	0.51772	ug/m3	75.8	6.5	70 - 130	30	J	2
Carbon tetrachloride	B180177-BS1	LCS	0.63826	0.62913	ug/m3	101		70 - 130			1
	B180177-BSD1	LCSD	0.64436	0.62913	ug/m3	102	1.0	70 - 130	30		2
Chlorobenzene	B180177-BS1	LCS	0.45888	0.46036	ug/m3	99.7		70 - 130			1
	B180177-BSD1	LCSD	0.45842	0.46036	ug/m3	99.6	0.1	70 - 130	30		2
Chloroform	B180177-BS1	LCS	0.48781	0.48825	ug/m3	99.9		70 - 130			1
	B180177-BSD1	LCSD	0.49250	0.48825	ug/m3	101	1.0	70 - 130	30		2
1,2-Dibromoethane	B180177-BS1	LCS	0.77949	0.76835	ug/m3	101		70 - 130			1
	B180177-BSD1	LCSD	0.76574	0.76835	ug/m3	99.7	1.8	70 - 130	30		2
1,2-Dichlorobenzene	B180177-BS1	LCS	0.64176	0.60124	ug/m3	107		70 - 130			1
	B180177-BSD1	LCSD	0.65198	0.60124	ug/m3	108	1.6	70 - 130	30		2
1,3-Dichlorobenzene	B180177-BS1	LCS	0.66292	0.60124	ug/m3	110		70 - 130			1
	B180177-BSD1	LCSD	0.65018	0.60124	ug/m3	108	1.9	70 - 130	30		2
1,4-Dichlorobenzene	B180177-BS1	LCS	0.63911	0.60124	ug/m3	106		70 - 130			1
	B180177-BSD1	LCSD	0.60821	0.60124	ug/m3	101	5.0	70 - 130	30		2
1,1-Dichloroethane	B180177-BS1	LCS	0.39717	0.40474	ug/m3	98.1		70 - 130			1
	B180177-BSD1	LCSD	0.40037	0.40474	ug/m3	98.9	0.8	70 - 130	30		2
1,2-Dichloroethane	B180177-BS1	LCS	0.39855	0.40474	ug/m3	98.5		70 - 130			1
	B180177-BSD1	LCSD	0.39802	0.40474	ug/m3	98.3	0.1	70 - 130	30		2
1,1-Dichloroethene	B180177-BS1	LCS	0.38163	0.39649	ug/m3	96.3		70 - 130			1
	B180177-BSD1	LCSD	0.37461	0.39649	ug/m3	94.5	1.9	70 - 130	30		2
cis-1,2-Dichloroethene	B180177-BS1	LCS	0.38523	0.39649	ug/m3	97.2		70 - 130			1
	B180177-BSD1	LCSD	0.38448	0.39649	ug/m3	97.0	0.2	70 - 130	30		2
Tetrachloroethene	B180177-BS1	LCS	0.70003	0.67825	ug/m3	103		70 - 130			1
	B180177-BSD1	LCSD	0.70640	0.67825	ug/m3	104	0.9	70 - 130	30		2
Toluene	B180177-BS1	LCS	0.35378	0.37684	ug/m3	93.9		70 - 130			1
	B180177-BSD1	LCSD	0.35793	0.37684	ug/m3	95.0	1.2	70 - 130	30		2
1,1,1-Trichloroethane	B180177-BS1	LCS	0.55517	0.54562	ug/m3	102		70 - 130			1
	B180177-BSD1	LCSD	0.55577	0.54562	ug/m3	102	0.1	70 - 130	30		2
1,1,2-Trichloroethane	B180177-BS1	LCS	0.56608	0.54562	ug/m3	104		70 - 130			1
	B180177-BSD1	LCSD	0.56952	0.54562	ug/m3	104	0.6	70 - 130	30		2
Trichloroethene	B180177-BS1	LCS	0.53958	0.53737	ug/m3	100		70 - 130			1
	B180177-BSD1	LCSD	0.55371	0.53737	ug/m3	103	2.6	70 - 130	30		2

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 10:12
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B180177											
Vinyl chloride	B180177-BS1	LCS	0.27047	0.25562	ug/m3	106		70 - 130			1
	B180177-BSD1	LCSD	0.26671	0.25562	ug/m3	104	1.4	70 - 130	30		2
p- & m-Xylenes	B180177-BS1	LCS	0.82687	0.86843	ug/m3	95.2		70 - 130			1
	B180177-BSD1	LCSD	0.84863	0.86843	ug/m3	97.7	2.6	70 - 130	30		2
o-Xylene	B180177-BS1	LCS	0.40664	0.43421	ug/m3	93.7		70 - 130			1
	B180177-BSD1	LCSD	0.42757	0.43421	ug/m3	98.5	5.0	70 - 130	30		2
Total Xylenes	B180177-BS1	LCS	1.2335	1.3026	ug/m3	94.7		70 - 130			1
	B180177-BSD1	LCSD	1.2762	1.3026	ug/m3	98.0	3.4	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B180177-BS1	LCS	3.29	3.58	ug/m3	92.0		50 - 150			1
	B180177-BSD1	LCSD	3.28	3.58	ug/m3	91.5	0.5	50 - 150			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B180177-BS1	LCS	EPA-TO-15-SIM	12/14/23	12/15/23	10:14	BEP	MS-A1	1
2	B180177-BSD1	LCSD	EPA-TO-15-SIM	12/14/23	12/15/23	10:48	BEP	MS-A1	1

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Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Reported: 12/18/2023 10:12
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 12/18/2023

April McGuire

Roux Associates, Inc -Long Beach
5150 E. Pacific Coast Hwy, Suite 450
Long Beach, CA 90804

Client Project: 2471.0001L003
Pace Project: Chiquita Canyon Air
Pace Work Order: 2323378
Invoice ID: B489165

Enclosed are the results of analyses for samples received by the laboratory on 12/16/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte
Client Services Rep

Stuart Buttram
Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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2323378

AIR: CHAIN-OF-CUSTODY / Analytical Request

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information

Company: ROUX
 Address: 5150 E PCH, STE 400
 LONG BEACH, CA 90804
 Email To: AMC@ROUXINC.COM
 Phone: 562-448-9824 Fax:
 (Resubmit Due Date): 12/18/23

Section B Required Project Information

Report To: A. MCGUIRE
 Copy To:
 Purchase Order No.:
 Project Name: CHIQUITA CANYON
 Project Number: 2471.0071.003

Section C Invoice Information

Attention: ROUX ACCOUNTS PAYABLE (ROUXAP@ROUXINC.COM)
 Company Name: ROUX
 Address: 5150 E PCH #450, LONG BEACH, CA 90804
 Pace Quote Reference: 00148192
 Pace Project Manager/Sales Rep: Brianna Schultz
 Pace Profile #:

Section D Required Client Information

AIR SAMPLE ID
 Sample IDs MUST BE UNIQUE

ITEM #	Media Code	Media	COLLECTED		Flow Control Number	Summa Can Number	Center Pressure (Initial Field - pag)	Center Pressure (Final Field - pag)	RELINQUISHED BY / AFFILIATION		DATE		SAMPLE CONDITIONS	
			DATE	TIME					DATE	TIME	DATE	TIME	Received on Ice	Temp in °C
1	ELC	-1	12/15/23	11:30	1751	0797	-4	-4	W	AWK	12/16/23	12:50	Y/N	Y/N
2	ELC	-2	12/15/23	11:35	1752	814	-6	-6	W	AWK	12/16/23	12:50	Y/N	Y/N
3	ELC	-3	12/15/23	11:45	1753	0742	-2	-2	W	AWK	12/16/23	14:05	Y/N	Y/N
4	ELC	-4	12/15/23	11:55	1754	388	-4	-4	W	AWK	12/16/23	14:05	Y/N	Y/N
5	ELC	-5	12/15/23	12:05	1755	374	-2	-2	W	AWK	12/16/23	14:05	Y/N	Y/N
6	ELC	-6	12/15/23	12:15	1756	0171	0	0	W	AWK	12/16/23	14:05	Y/N	Y/N
7	ELC	-7	12/15/23	12:25	1757	0798	-5	-5	W	AWK	12/16/23	14:05	Y/N	Y/N
8	ELC	-8	12/15/23	12:35	1758	0781	-30	-30	W	AWK	12/16/23	14:05	Y/N	Y/N
9	ELC	-9	12/15/23	12:45	1759	545	-30	-30	W	AWK	12/16/23	14:05	Y/N	Y/N
10	ELC	-10	12/15/23	12:55	1760	433	-5	-5	W	AWK	12/16/23	14:05	Y/N	Y/N
11	ELC	-10	12/15/23	13:05	1761	435	-30	-30	W	AWK	12/16/23	14:05	Y/N	Y/N
12	ELC	-10	12/15/23	13:15	1762	435	-30	-30	W	AWK	12/16/23	14:05	Y/N	Y/N

Comments:
 ROUX03-20231215 was stolen.

CHK BY: AWK DISTRIBUTION SUB OUT

FC046Rev 01_03Feb2010

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.807.8398

SAMPLER NAME AND SIGNATURE
 NAME: Peter Grimmer
 SIGNATURE: [Signature]
 DATE: 12/16/23

PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: 23-23378					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> W / S
Refrigerant: Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: _____ Container: <u>Summa</u> Thermometer ID: _____		Date/Time <u>12/16/23</u>	
		Temperature: (A) <u>Room</u> °C / (C) <u>Temp.</u> °C		Analyst Init <u>JCV 1465</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁴										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 505/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: -10 Was different time and description (COC) (R040 B01 - 2023 1216 - D) Sample (R040 B01 - 2023 1215)
 Sample Numbering Completed By: JCV Date/Time: 12/16/23 1410 Rev 23 05120122
 A = Actual / C = Corrected
 File on CC 0939 Sample 0498



Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2323378-01	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 10:17
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX07-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323378-02	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 08:58
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX06-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323378-03	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 09:12
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB02-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323378-04	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 09:24
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323378-05	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 09:38
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323378-06	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 09:54
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX04-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2323378-07	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 09:58
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX02-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2323378-08	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 10:04
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX01-20231215	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2323378-09	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 09:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUX05-20231215-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			
2323378-10	COC Number:	---	Receive Date:	12/16/2023 14:05
	Project Number:	---	Sampling Date:	12/16/2023 09:39
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	ROUXB01-20231215-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	<hr/>			

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323378-01		Client Sample Name: ROUX07-20231215, 12/16/2023 10:17:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.71	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	0.11	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	1
Dichlorodifluoromethane	1.9	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.25	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.79	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.44	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.15	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.59	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.7	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-01	Client Sample Name: ROUX07-20231215, 12/16/2023 10:17:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23 16:33		BEP	MS-A1	1	B180244	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323378-02	Client Sample Name:	ROUX06-20231215, 12/16/2023 8:58:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.35	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.21	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.58	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.43	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.37	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.50	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	88.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-02	Client Sample Name: ROUX06-20231215, 12/16/2023 8:58:00AM, Client
----------------------------------	--

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23 17:11		BEP	MS-A1	1	B180244	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323378-03		Client Sample Name:	ROUXB02-20231215, 12/16/2023 9:12:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.34	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.31	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.062	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.37	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.19	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.068	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.26	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	85.2	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-03	Client Sample Name: ROUXB02-20231215, 12/16/2023 9:12:00AM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23	17:48	BEP	MS-A1	1	B180244	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323378-04		Client Sample Name:	ROUX05-20231215, 12/16/2023 9:24:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.27	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.15	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.088	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.46	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.31	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.14	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.45	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	100	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-04	Client Sample Name: ROUX05-20231215, 12/16/2023 9:24:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23	18:26	BEP	MS-A1	1	B180244	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323378-05		Client Sample Name: ROUXB01-20231215, 12/16/2023 9:38:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.24	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.094	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.092	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.41	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.30	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.11	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.41	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	90.5	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-05	Client Sample Name: ROUXB01-20231215, 12/16/2023 9:38:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23	19:04	BEP	MS-A1	1	B180244	EPA TO-15

DCN = Data Continuation Number

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323378-06		Client Sample Name: ROUX04-20231215, 12/16/2023 9:54:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.28	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.13	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.079	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.44	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.27	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.088	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.35	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	86.0	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-06	Client Sample Name: ROUX04-20231215, 12/16/2023 9:54:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23	19:41	BEP	MS-A1	1	B180244	EPA TO-15

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323378-07		Client Sample Name: ROUX02-20231215, 12/16/2023 9:58:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.31	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.13	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.11	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.54	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.0	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.44	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.37	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.50	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	89.1	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-07	Client Sample Name: ROUX02-20231215, 12/16/2023 9:58:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23 20:19		BEP	MS-A1	1	B180244	EPA TO-15

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID:	2323378-08		Client Sample Name:	ROUX01-20231215, 12/16/2023 10:04:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.22	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.067	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.034	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND	J	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.16	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.084	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.033	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND	J	1
Total Xylenes	0.12	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	87.4	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-08	Client Sample Name: ROUX01-20231215, 12/16/2023 10:04:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23 20:56		BEP	MS-A1	1	B180244	EPA TO-15

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323378-09		Client Sample Name: ROUX05-20231215-D, 12/16/2023 9:25:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.28	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.16	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.088	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.44	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.31	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.13	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.45	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-09	Client Sample Name: ROUX05-20231215-D, 12/16/2023 9:25:00AM, Client
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DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23 21:34		BEP	MS-A1	1	B180244	EPA TO-15

DCN = Data Continuation Number

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Pace Sample ID: 2323378-10		Client Sample Name: ROUXB01-20231215-D, 12/16/2023 9:39:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Benzene	0.23	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.093	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.092	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	0.46	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.1	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.45	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.31	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.12	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.43	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	91.6	%	50 - 150 (LCL - UCL)		EPA-TO-15-SIM			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2323378-10	Client Sample Name: ROUXB01-20231215-D, 12/16/2023 9:39:00AM, Client
----------------------------------	---

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-TO-15-SIM	12/16/23 15:14	12/16/23 22:12		BEP	MS-A1	1	B180244	EPA TO-15

DCN = Data Continuation Number

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B180244							
Benzene	B180244-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B180244-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B180244-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B180244-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B180244-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B180244-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B180244-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B180244-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B180244-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B180244-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B180244-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B180244-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B180244-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B180244-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B180244-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B180244-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B180244-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B180244-BLK1	ND	ug/m3	0.050	0.017		1
Tetrachloroethene	B180244-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B180244-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B180244-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B180244-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B180244-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B180244-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B180244-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B180244-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B180244-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B180244-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B180244-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B180244-BLK1	79.7	%	50 - 150 (LCL - UCL)			1

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Roux Associates, Inc -Long Beach
 5150 E. Pacific Coast Hwy, Suite 450
 Long Beach, CA 90804

Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B180244											
Benzene	B180244-BS1	LCS	0.28590	0.31948	ug/m3	89.5		70 - 130			1
	B180244-BSD1	LCSD	0.28536	0.31948	ug/m3	89.3	0.2	70 - 130	30		2
Benzyl chloride	B180244-BS1	LCS	0.47242	0.51772	ug/m3	91.2		70 - 130		J	1
	B180244-BSD1	LCSD	0.51529	0.51772	ug/m3	99.5	8.7	70 - 130	30		2
Carbon tetrachloride	B180244-BS1	LCS	0.56138	0.62913	ug/m3	89.2		70 - 130			1
	B180244-BSD1	LCSD	0.55364	0.62913	ug/m3	88.0	1.4	70 - 130	30		2
Chlorobenzene	B180244-BS1	LCS	0.41694	0.46036	ug/m3	90.6		70 - 130			1
	B180244-BSD1	LCSD	0.42436	0.46036	ug/m3	92.2	1.8	70 - 130	30		2
Chloroform	B180244-BS1	LCS	0.43098	0.48825	ug/m3	88.3		70 - 130			1
	B180244-BSD1	LCSD	0.42561	0.48825	ug/m3	87.2	1.3	70 - 130	30		2
1,2-Dibromoethane	B180244-BS1	LCS	0.67346	0.76835	ug/m3	87.6		70 - 130			1
	B180244-BSD1	LCSD	0.68521	0.76835	ug/m3	89.2	1.7	70 - 130	30		2
1,2-Dichlorobenzene	B180244-BS1	LCS	0.55007	0.60124	ug/m3	91.5		70 - 130			1
	B180244-BSD1	LCSD	0.59252	0.60124	ug/m3	98.6	7.4	70 - 130	30		2
1,3-Dichlorobenzene	B180244-BS1	LCS	0.58801	0.60124	ug/m3	97.8		70 - 130			1
	B180244-BSD1	LCSD	0.63647	0.60124	ug/m3	106	7.9	70 - 130	30		2
1,4-Dichlorobenzene	B180244-BS1	LCS	0.48093	0.60124	ug/m3	80.0		70 - 130			1
	B180244-BSD1	LCSD	0.53161	0.60124	ug/m3	88.4	10.0	70 - 130	30		2
1,1-Dichloroethane	B180244-BS1	LCS	0.35297	0.40474	ug/m3	87.2		70 - 130			1
	B180244-BSD1	LCSD	0.35107	0.40474	ug/m3	86.7	0.5	70 - 130	30		2
1,2-Dichloroethane	B180244-BS1	LCS	0.36050	0.40474	ug/m3	89.1		70 - 130			1
	B180244-BSD1	LCSD	0.35795	0.40474	ug/m3	88.4	0.7	70 - 130	30		2
1,1-Dichloroethene	B180244-BS1	LCS	0.34297	0.39649	ug/m3	86.5		70 - 130			1
	B180244-BSD1	LCSD	0.34392	0.39649	ug/m3	86.7	0.3	70 - 130	30		2
cis-1,2-Dichloroethene	B180244-BS1	LCS	0.35526	0.39649	ug/m3	89.6		70 - 130			1
	B180244-BSD1	LCSD	0.35875	0.39649	ug/m3	90.5	1.0	70 - 130	30		2
Tetrachloroethene	B180244-BS1	LCS	0.59483	0.67825	ug/m3	87.7		70 - 130			1
	B180244-BSD1	LCSD	0.59408	0.67825	ug/m3	87.6	0.1	70 - 130	30		2
Toluene	B180244-BS1	LCS	0.32469	0.37684	ug/m3	86.2		70 - 130			1
	B180244-BSD1	LCSD	0.32865	0.37684	ug/m3	87.2	1.2	70 - 130	30		2
1,1,1-Trichloroethane	B180244-BS1	LCS	0.48484	0.54562	ug/m3	88.9		70 - 130			1
	B180244-BSD1	LCSD	0.47982	0.54562	ug/m3	87.9	1.0	70 - 130	30		2
1,1,2-Trichloroethane	B180244-BS1	LCS	0.46672	0.54562	ug/m3	85.5		70 - 130			1
	B180244-BSD1	LCSD	0.46563	0.54562	ug/m3	85.3	0.2	70 - 130	30		2
Trichloroethene	B180244-BS1	LCS	0.46461	0.53737	ug/m3	86.5		70 - 130			1
	B180244-BSD1	LCSD	0.47214	0.53737	ug/m3	87.9	1.6	70 - 130	30		2

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Reported: 12/18/2023 8:41
 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Run #
								Percent Recovery	RPD		
QC Batch ID: B180244											
Vinyl chloride	B180244-BS1	LCS	0.22331	0.25562	ug/m3	87.4		70 - 130			1
	B180244-BSD1	LCSD	0.22548	0.25562	ug/m3	88.2	1.0	70 - 130	30		2
p- & m-Xylenes	B180244-BS1	LCS	0.74641	0.86843	ug/m3	86.0		70 - 130			1
	B180244-BSD1	LCSD	0.76300	0.86843	ug/m3	87.9	2.2	70 - 130	30		2
o-Xylene	B180244-BS1	LCS	0.37685	0.43421	ug/m3	86.8		70 - 130			1
	B180244-BSD1	LCSD	0.37924	0.43421	ug/m3	87.3	0.6	70 - 130	30		2
Total Xylenes	B180244-BS1	LCS	1.1233	1.3026	ug/m3	86.2		70 - 130			1
	B180244-BSD1	LCSD	1.1422	1.3026	ug/m3	87.7	1.7	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B180244-BS1	LCS	3.59	3.58	ug/m3	100		50 - 150			1
	B180244-BSD1	LCSD	3.73	3.58	ug/m3	104	3.8	50 - 150			2

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 Project: Chiquita Canyon Air
 Project Number: 2471.0001L003
 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1
2	B180244-BSD1	LCSD	EPA-TO-15-SIM	12/15/23	12/16/23 01:33	BEP	MS-A1	1

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Reported: 12/18/2023 8:41
Project: Chiquita Canyon Air
Project Number: 2471.0001L003
Project Manager: April McGuire

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

November 7, 2023

LTR/2301/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received October 31, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 7, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: October 31, 2023
Date Analyzed: October 31, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23043-20	23043-21	23043-22	23043-23	23043-24
Sample I.D.:	Roux07S	Roux03S	RouxB01S	RouxB02S	RouxB01S
	20231031	20231031-D	20231031	20231031	20231031-D
Components	(Concentration in ppmv)				
Hydrogen sulfide	<0.045	<0.045	<0.045	<0.045	<0.045
Carbonyl sulfide	<0.045	<0.045	<0.045	<0.045	<0.045
Methyl mercaptan	<0.045	<0.045	<0.045	<0.045	<0.045
Ethyl mercaptan	<0.045	<0.045	<0.045	<0.045	<0.045
Dimethyl sulfide	<0.045	<0.045	<0.045	<0.045	<0.045
Carbon disulfide	<0.045	<0.045	<0.045	<0.045	<0.045
i-Propyl mercaptan	<0.045	<0.045	<0.045	<0.045	<0.045
t-Butyl mercaptan	<0.045	<0.045	<0.045	<0.045	<0.045
n-Propyl mercaptan	<0.045	<0.045	<0.045	<0.045	<0.045
s-Butyl mercaptan	<0.045	<0.045	<0.045	<0.045	<0.045
i-Butyl mercaptan	<0.045	<0.045	<0.045	<0.045	<0.045
Dimethyl disulfide	<0.045	<0.045	<0.045	<0.045	<0.045
Tetrahydrothiophene	<0.045	<0.045	<0.045	<0.045	<0.045
Unidentified sulfurs	<0.045	<0.045	<0.045	<0.045	<0.045

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
--------------	----	----	----	----	----

ND - Not Detected

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: October 31, 2023
Date Analyzed: October 31, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB01S-20231031-D	<0.045	<0.045	---	---
Carbonyl sulfide	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB01S-20231031-D	<0.045	<0.045	---	---
Methyl mercaptan	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB01S-20231031-D	<0.045	<0.045	---	---
Ethyl mercaptan	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB01S-20231031-D	<0.045	<0.045	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Dimethyl sulfide	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	
Carbon disulfide	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	
i-Propyl mercaptan	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	
t-Butyl mercaptan	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
n-Propyl mercaptan	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	
s-Butyl mercaptan	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	
i-Butyl mercaptan	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	
Dimethyl disulfide	Roux01S-20231031	<0.045	<0.045	---	---
	Roux02S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031	<0.045	<0.045	---	---
	Roux04S-20231031	<0.045	<0.045	---	---
	Roux05S-20231031	<0.045	<0.045	---	---
	Roux06S-20231031	<0.045	<0.045	---	---
	Roux07S-20231031	<0.045	<0.045	---	---
	Roux03S-20231031-D	<0.045	<0.045	---	---
	RouxB01S-20231031	<0.045	<0.045	---	---
	RouxB02S-20231031	<0.045	<0.045	---	---
RouxB01S-20231031-D	<0.045	<0.045	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD	
		Run #1	Run #2			
		(Concentration in ppmv)				
Tetrahydrothiophene	Roux01S-20231031	<0.045	<0.045	---	---	
	Roux02S-20231031	<0.045	<0.045	---	---	
	Roux03S-20231031	<0.045	<0.045	---	---	
	Roux04S-20231031	<0.045	<0.045	---	---	
	Roux05S-20231031	<0.045	<0.045	---	---	
	Roux06S-20231031	<0.045	<0.045	---	---	
	Roux07S-20231031	<0.045	<0.045	---	---	
	Roux03S-20231031-D	<0.045	<0.045	---	---	
	RouxB01S-20231031	<0.045	<0.045	---	---	
	RouxB02S-20231031	<0.045	<0.045	---	---	
	RouxB01S-20231031-D	<0.045	<0.045	---	---	
	Unidentified sulfurs	Roux01S-20231031	<0.045	<0.045	---	---
		Roux02S-20231031	<0.045	<0.045	---	---
Roux03S-20231031		<0.045	<0.045	---	---	
Roux04S-20231031		<0.045	<0.045	---	---	
Roux05S-20231031		<0.045	<0.045	---	---	
Roux06S-20231031		<0.045	<0.045	---	---	
Roux07S-20231031		<0.045	<0.045	---	---	
Roux03S-20231031-D		<0.045	<0.045	---	---	
RouxB01S-20231031		<0.045	<0.045	---	---	
RouxB02S-20231031		<0.045	<0.045	---	---	
RouxB01S-20231031-D		<0.045	<0.045	---	---	

Eleven Tedlar bag samples, laboratory numbers 23043-(14-24), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: October 31, 2023
Date Analyzed: October 31, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	(Concentration in ppmv)						
Hydrogen sulfide	<0.045	5.005	5.05	101	0.25	0.20	79.9
Carbonyl sulfide	<0.045	4.921	4.95	101	0.25	0.25	102
Methyl mercaptan	<0.045	5.075	5.10	100	0.25	0.24	94.6
Ethyl mercaptan	<0.045	5.163	5.17	100	0.26	0.25	96.8
Dimethyl sulfide	<0.045	5.282	5.30	100	0.26	0.26	98.4
Carbon disulfide	<0.045	5.364	5.38	100	0.27	0.26	96.9
i-Propyl mercaptan	<0.045	5.352	5.34	100	0.27	0.26	97.2
t-Butyl mercaptan	<0.045	5.233	5.26	101	0.26	0.26	99.4
n-Propyl mercaptan	<0.045	5.432	5.42	100	0.27	0.26	95.7
s-Butyl mercaptan	<0.045	5.085	5.15	101	0.25	0.25	98.3
i-Butyl mercaptan	<0.045	5.546	5.50	99.2	0.28	0.27	97.4
Tetrahydrothiophene	<0.045	5.203	5.23	101	0.26	0.25	96.1



CHAIN OF CUSTODY RECORD

Client/Project Name: Roux/Chiquita Canyon
 Project Location: 29201 Henry May Drive, Castaic, CA 91384
 Project Number: 2471.0001L003
 Field Logbook Number:

Turnaround Times: X Standard 10 day
 Expedited: 24hr / 48hr / 72hr / 5 day

Sampler: (Signature) *[Signature]*

Client Sample Identification

Type of Sample Canister ID

AtmAA Lab Number

Sampling Date

Sampling Time

Special Remarks

ANALYSES REQUESTED

SCAQMD 307.91 (Sulfur)

ROUX01S-2023 1031	1L Tedlar	23043-14	10-31-2023	1518	X
ROUX02S-2023 1031		-15		1444	X
ROUX03S-2023 1031		-16		1498	X
ROUX04S-2023 1031		-17		1430	X
ROUX05S-2023 1031		-18		1415	X
ROUX06S-2023 1031		-19		1306	X
ROUX07S-2023 1031		-20		1245	X
ROUX03 S-2023 1031-D		-21		1459	X
ROUXB01S-2023 1031		-22		1351	X
ROUXB02S-2023 1031		-23		1326	X
ROUXB01 S-2023 1031-D		-24		1352	X

Relinquished by: (Signature) *[Signature]* Date 10/31/23 Time 1627

Relinquished by: (Signature) *[Signature]* Date Date Time

Relinquished by: (Signature) *[Signature]* Date Date Time

Relinquished by: (Signature) *[Signature]* Date Date Time

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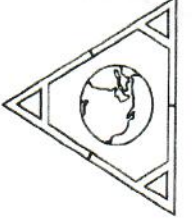
Relinquished by: (Signature) *[Signature]* Date Date Time

Send Report to:

Company: Roux Associates, Inc.
 Street Address 5150 E PCH, STE 450
 City/State/Zip: Long Beach, CA 90804
 Project Manager: April McGuire
 Email Address: amcguire@rouxinc.com

Analytical Laboratory

AtmAA Inc.
 23917 Craftsman Rd.
 Calabasas, CA 91302
 TEL: (818) 223-3277
 Email Address: info@atmaa.com





AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

November 17, 2023

LTR/2307/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received November 6, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 17, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 6, 2023
Date Analyzed: November 6, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23103-7	23103-8	23103-9	23103-10	23103-11	23103-12
Sample I.D.:	Roux01S	Roux02S	Roux03S	Roux04S	Roux05S	Roux06S
	20231106	20231106	20231106	20231106	20231106	20231106
<u>Components</u>	(Concentration in ppmv)					
Hydrogen sulfide	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Carbonyl sulfide	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Methyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Ethyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Dimethyl sulfide	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Carbon disulfide	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
i-Propyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
t-Butyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
n-Propyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
s-Butyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
i-Butyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Dimethyl disulfide	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Tetrahydrothiophene	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Unidentified sulfurs	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND	ND
--------------	----	----	----	----	----	----

ND - Not Detected



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 17, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 6, 2023
Date Analyzed: November 6, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23103-13	23103-14	23103-15	23103-16	23103-17
Sample I.D.:	Roux07S	Roux04S	RouxB01S	RouxB02S	RouxB01S
	20231106	20231106-D	20231106	20231106	20231106-D
Components	(Concentration in ppmv)				
Hydrogen sulfide	<0.040	<0.040	<0.040	<0.040	<0.040
Carbonyl sulfide	<0.040	<0.040	<0.040	<0.040	<0.040
Methyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040
Ethyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040
Dimethyl sulfide	<0.040	<0.040	<0.040	<0.040	<0.040
Carbon disulfide	<0.040	<0.040	<0.040	<0.040	<0.040
i-Propyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040
t-Butyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040
n-Propyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040
s-Butyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040
i-Butyl mercaptan	<0.040	<0.040	<0.040	<0.040	<0.040
Dimethyl disulfide	<0.040	<0.040	<0.040	<0.040	<0.040
Tetrahydrothiophene	<0.040	<0.040	<0.040	<0.040	<0.040
Unidentified sulfurs	<0.040	<0.040	<0.040	<0.040	<0.040

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
--------------	----	----	----	----	----

ND - Not Detected

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: November 6, 2023
Date Analyzed: November 6, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Hydrogen sulfide	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---
Carbonyl sulfide	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---
Methyl mercaptan	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---
Ethyl mercaptan	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Concentration in ppmv)</i>			
Dimethyl sulfide	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---
Carbon disulfide	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---
i-Propyl mercaptan	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---
t-Butyl mercaptan	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Concentration in ppmv)</i>			
n-Propyl mercaptan	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
RouxB01S-20231106-D	<0.040	<0.040	---	---	
s-Butyl mercaptan	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
RouxB01S-20231106-D	<0.040	<0.040	---	---	
i-Butyl mercaptan	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
RouxB01S-20231106-D	<0.040	<0.040	---	---	
Dimethyl disulfide	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
RouxB01S-20231106-D	<0.040	<0.040	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Tetrahydrothiophene	Roux01S-20231106	<0.040	<0.040	---	---
	Roux02S-20231106	<0.040	<0.040	---	---
	Roux03S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106	<0.040	<0.040	---	---
	Roux05S-20231106	<0.040	<0.040	---	---
	Roux06S-20231106	<0.040	<0.040	---	---
	Roux07S-20231106	<0.040	<0.040	---	---
	Roux04S-20231106-D	<0.040	<0.040	---	---
	RouxB01S-20231106	<0.040	<0.040	---	---
	RouxB02S-20231106	<0.040	<0.040	---	---
	RouxB01S-20231106-D	<0.040	<0.040	---	---
	Unidentified sulfurs	Roux01S-20231106	<0.040	<0.040	---
Roux02S-20231106		<0.040	<0.040	---	---
Roux03S-20231106		<0.040	<0.040	---	---
Roux04S-20231106		<0.040	<0.040	---	---
Roux05S-20231106		<0.040	<0.040	---	---
Roux06S-20231106		<0.040	<0.040	---	---
Roux07S-20231106		<0.040	<0.040	---	---
Roux04S-20231106-D		<0.040	<0.040	---	---
RouxB01S-20231106		<0.040	<0.040	---	---
RouxB02S-20231106		<0.040	<0.040	---	---
RouxB01S-20231106-D		<0.040	<0.040	---	---

Eleven Tedlar bag samples, laboratory numbers 23103-(7-17), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".



QUALITY ASSURANCE SUMMARY
(SCD Instrument 1)

Project Location: Chiquita Canyon
 Date Received: November 6, 2023
 Date Analyzed: November 6, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.040	5.005	4.99	99.6	1.00	1.10	110
Carbonyl sulfide	<0.040	4.921	4.90	99.5	0.98	1.10	111
Methyl mercaptan	<0.040	5.075	5.06	99.8	1.02	1.07	105
Ethyl mercaptan	<0.040	5.163	5.16	99.9	1.03	1.06	103
Dimethyl sulfide	<0.040	5.282	5.27	99.8	1.06	1.10	105
Carbon disulfide	<0.040	5.364	5.35	99.7	1.07	1.15	108
i-Propyl mercaptan	<0.040	5.352	5.33	99.6	1.07	1.18	110
t-Butyl mercaptan	<0.040	5.233	5.22	99.7	1.05	1.13	108
n-Propyl mercaptan	<0.040	5.432	5.41	99.6	1.09	1.19	109
s-Butyl mercaptan	<0.040	5.085	5.06	99.6	1.02	1.12	111
i-Butyl mercaptan	<0.040	5.546	5.52	99.5	1.11	1.23	111
Tetrahydrothiophene	<0.040	5.203	5.18	99.5	1.04	1.16	112



QUALITY ASSURANCE SUMMARY
(SCD Instrument 2)

Project Location: Chiquita Canyon
 Date Received: November 6, 2023
 Date Analyzed: November 6, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.040	30.29	30.12	99.4	1.00	0.85	84.9
Carbonyl sulfide	<0.040	30.37	30.26	100	0.98	0.93	94.8
Methyl mercaptan	<0.040	30.58	30.44	100	1.02	0.92	90.9
Ethyl mercaptan	<0.040	29.92	29.63	99.0	1.03	0.93	90.2
Dimethyl sulfide	<0.040	28.93	28.66	99.0	1.06	0.93	88.1
Carbon disulfide	<0.040	30.25	29.95	99.0	1.07	0.96	89.2
i-Propyl mercaptan	<0.040	31.52	31.23	99.1	1.07	0.99	92.3
t-Butyl mercaptan	<0.040	30.94	30.53	98.7	1.05	0.97	92.4
n-Propyl mercaptan	<0.040	31.67	31.25	98.7	1.09	0.97	89.5
s-Butyl mercaptan	<0.040	29.79	29.32	98.4	1.02	0.92	90.2
i-Butyl mercaptan	<0.040	30.59	30.11	98.4	1.11	0.95	85.9
Tetrahydrothiophene	<0.040	31.11	30.45	97.9	1.04	0.96	92.4



CHAIN OF CUSTODY RECORD

Client/Project Name: Roux/Chiquita Canyon
 Project Number: 2471.0001L003

Project Location:
 29201 Henry May Drive, Castaic, CA 91384
 Field Logbook Number:

ANALYSES REQUESTED

SCAQMD 307.91 (Sulfur)

Turnaround Times: X Standard 10 day
 Expedited: 24hr / 48hr / 72hr / 5 day

Special Remarks

Client Sample Identification	Type of Sample Canister ID	AtmAA Lab Number	Sampling Date	Sampling Time	Special Remarks
ROUX01S-2023 1106	Tedlar bag	23103-7	11-06-23	16:32	X
ROUX02S-2023 1106	Tedlar bag	8	11-06-23	16:18	X
ROUX03S-2023 1106	Tedlar bag	9	11-06-23	16:25	X
ROUX04S-2023 1106	Tedlar bag	10	11-06-23	16:06	X
ROUX05S-2023 1106	Tedlar bag	11	11-06-23	15:55	X
ROUX06S-2023 1106	Tedlar bag	12	11-06-23	15:12	X
ROUX07S-2023 1106	Tedlar bag	13	11-06-23	14:47	X
ROUX04 S-2023 1106 -D	Tedlar bag	14	11-06-23	16:07	X
ROUXB01S-2023 1106	Tedlar bag	75	11-06-23	15:42	X
ROUXB02S-2023 1106	Tedlar bag	6	11-06-23	15:25	X
ROUXB01 S-2023 1106 -D	Tedlar bag	-17	11-06-23	15:43	X


Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Relinquished by: (Signature) _____ Date 11-6-23 Time 5:30 Received for Laboratory by: (Signature) _____ Date 11-6-23 Time 5:30

Company Info:

Company: Roux Associates, Inc.	Analytical Laboratory
Street Address 5150 E PCH, STE 450	AtmAA Inc.
City/State/Zip: Long Beach, CA 90804	23917 Craftsman Rd.
Telephone No.: 562-446-8624	Calabasas, CA 91302
Email Address: amcquire@rouxinc.com	TEL: (818) 223-3277
	Email Address: info@atmaa.com





AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

November 18, 2023

LTR/2308/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received November 14, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 18, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 14, 2023
Date Analyzed: November 14, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23183-1	23183-2	23183-3	23183-4	23183-5	23183-6
Sample I.D.:	Roux07S	Roux06S	RouxB02S	Roux05S	RouxB01S	Roux04S
	20231114	20231114	20231114	20231114	20231114	20231114
<u>Components</u>	<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Carbonyl sulfide	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Methyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Ethyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Dimethyl sulfide	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Carbon disulfide	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
i-Propyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
t-Butyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
n-Propyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
s-Butyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
i-Butyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Dimethyl disulfide	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Tetrahydrothiophene	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Unidentified sulfurs	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND	ND
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ND - Not Detected



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 18, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 14, 2023
Date Analyzed: November 14, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23183-7	23183-8	23183-9	23183-10	23183-11
Sample I.D.:	Roux02S	Roux03S	Roux01S	Roux01S	RouxB02S
	20231114	20231114	20231114	20231114-D	20231114-D

Components	(Concentration in ppmv)				
Hydrogen sulfide	<0.030	<0.030	<0.030	<0.030	<0.030
Carbonyl sulfide	<0.030	<0.030	<0.030	<0.030	<0.030
Methyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030
Ethyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030
Dimethyl sulfide	<0.030	<0.030	<0.030	<0.030	<0.030
Carbon disulfide	<0.030	<0.030	<0.030	<0.030	<0.030
i-Propyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030
t-Butyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030
n-Propyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030
s-Butyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030
i-Butyl mercaptan	<0.030	<0.030	<0.030	<0.030	<0.030
Dimethyl disulfide	<0.030	<0.030	<0.030	<0.030	<0.030
Tetrahydrothiophene	<0.030	<0.030	<0.030	<0.030	<0.030
Unidentified sulfurs	<0.030	<0.030	<0.030	<0.030	<0.030

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
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ND - Not Detected

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: November 14, 2023
Date Analyzed: November 14, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Hydrogen sulfide	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	
Carbonyl sulfide	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	
Methyl mercaptan	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	
Ethyl mercaptan	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Dimethyl sulfide	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
	RouxB02S-20231114-D	<0.030	<0.030	---	---
Carbon disulfide	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
	RouxB02S-20231114-D	<0.030	<0.030	---	---
i-Propyl mercaptan	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
	RouxB02S-20231114-D	<0.030	<0.030	---	---
t-Butyl mercaptan	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
	RouxB02S-20231114-D	<0.030	<0.030	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
n-Propyl mercaptan	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	
s-Butyl mercaptan	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	
i-Butyl mercaptan	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	
Dimethyl disulfide	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
RouxB02S-20231114-D	<0.030	<0.030	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Tetrahydrothiophene	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
	RouxB02S-20231114-D	<0.030	<0.030	---	---
Unidentified sulfurs	Roux07S-20231114	<0.030	<0.030	---	---
	Roux06S-20231114	<0.030	<0.030	---	---
	RouxB02S-20231114	<0.030	<0.030	---	---
	Roux05S-20231114	<0.030	<0.030	---	---
	RouxB01S-20231114	<0.030	<0.030	---	---
	Roux04S-20231114	<0.030	<0.030	---	---
	Roux02S-20231114	<0.030	<0.030	---	---
	Roux03S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114	<0.030	<0.030	---	---
	Roux01S-20231114-D	<0.030	<0.030	---	---
	RouxB02S-20231114-D	<0.030	<0.030	---	---

Eleven Tedlar bag samples, laboratory numbers 23183-(1-11), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".



QUALITY ASSURANCE SUMMARY
(SCD Instrument 1)

Project Location: Chiquita Canyon
 Date Received: November 14, 2023
 Date Analyzed: November 14, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.030	5.005	4.99	99.7	1.00	1.10	110
Carbonyl sulfide	<0.030	4.921	4.90	99.6	0.98	1.09	111
Methyl mercaptan	<0.030	5.075	5.06	99.6	1.02	1.13	111
Ethyl mercaptan	<0.030	5.163	5.14	99.6	1.03	1.16	113
Dimethyl sulfide	<0.030	5.282	5.26	99.6	1.06	1.19	113
Carbon disulfide	<0.030	5.364	5.34	99.5	1.07	1.20	112
i-Propyl mercaptan	<0.030	5.352	5.33	99.5	1.07	1.20	112
t-Butyl mercaptan	<0.030	5.233	5.21	99.5	1.05	1.19	113
n-Propyl mercaptan	<0.030	5.432	5.41	99.6	1.09	1.19	109
s-Butyl mercaptan	<0.030	5.085	5.06	99.5	1.02	1.14	112
i-Butyl mercaptan	<0.030	5.546	5.52	99.5	1.11	1.26	113
Tetrahydrothiophene	<0.030	5.203	5.17	99.4	1.04	1.19	114



QUALITY ASSURANCE SUMMARY
(SCD Instrument 2)

Project Location: Chiquita Canyon
 Date Received: November 14, 2023
 Date Analyzed: November 14, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.030	5.005	5.01	100	1.00	0.95	95.0
Carbonyl sulfide	<0.030	4.921	4.91	100	0.98	1.04	105
Methyl mercaptan	<0.030	5.075	5.07	100	1.02	1.00	99.0
Ethyl mercaptan	<0.030	5.163	5.16	100	1.03	1.04	100
Dimethyl sulfide	<0.030	5.282	5.28	99.9	1.06	1.09	103
Carbon disulfide	<0.030	5.364	5.36	99.8	1.07	1.11	104
i-Propyl mercaptan	<0.030	5.352	5.35	99.9	1.07	1.10	103
t-Butyl mercaptan	<0.030	5.233	5.22	99.8	1.05	1.09	104
n-Propyl mercaptan	<0.030	5.432	5.43	99.9	1.09	1.11	102
s-Butyl mercaptan	<0.030	5.085	5.07	99.7	1.02	1.05	103
i-Butyl mercaptan	<0.030	5.546	5.53	99.6	1.11	1.18	106
Tetrahydrothiophene	<0.030	5.203	5.19	99.7	1.04	1.08	104



CHAIN OF CUSTODY RECORD

Client/Project Name:	Roux/Chiquita Canyon		Project Location:	29201 Henry May Drive, Castaic, CA 91384		ANALYSES REQUESTED	
Project Number:	2471.0001L003		Field Logbook Number:			SCAQMD 307.91 (Sulfur)	
Sampler: (Signature)			Turnaround Times: X Standard 10 day				
			Expedited: 24hr / 48hr / 72hr / 5 day				
Client Sample Identification	Type of Sample Canister ID	AtmAA Lab Number	Sampling Date	Sampling Time	Special Remarks	Date	Time
ROUX07S-2023 1114	1L Tedlar	23183-1	11/14/23	1502			
ROUX06S-2023 1114	1L Tedlar	-2	11/14/23	1515			
ROUXB02S-2023 1114	1L Tedlar	-3	11/14/23	1522			
ROUX05S-2023 1114	1L Tedlar	-4	11/14/23	1543			
ROUXB01S-2023 1114	1L Tedlar	-5	11/14/23	1353			
ROUX04S-2023 1114	1L Tedlar	-6	11/14/23	1559			
ROUX02S-2023 1114	1L Tedlar	-7	11/14/23	1607			
ROUX03S-2023 1114	1L Tedlar	-8	11/14/23	1615			
ROUX01S-2023 1114	1L Tedlar	-9	11/14/23	1621			
ROUX0 S-2023 1114 -D	1L Tedlar	-10	11/14/23	1623			
ROUXB0 Z S-2023 1114 -D	1L Tedlar	-11	11/14/23	1523			
Relinquished by: (Signature)		Date		Received by: (Signature)		Date	
		11/14/23		1734			
Relinquished by: (Signature)		Date		Received by: (Signature)		Date	
Relinquished by: (Signature)		Date		Received for Laboratory by: (Signature)		Date	
						11-14-23 17:34	
Company Info:		Send Report to:		Analytical Laboratory			
Company: Roux Associates, Inc.		Company: Roux Associates, Inc.		AtmAA Inc.			
Street Address 5150 E PCH, STE 450		Street Address 5150 E PCH, STE 450		23917 Craftsman Rd.			
City/State/Zip: Long Beach, CA 90804		City/State/Zip: Long Beach, CA 90804		Calabasas, CA 91302			
Telephone No.: 562-446-8624		Project Manager: April McGuire		TEL: (818) 223-3277			
Email Address: amcguire@rouxinc.com		Email Address: amcguire@rouxinc.com		Email Address: info@atmaa.com			





AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

November 28, 2023

LTR/2315/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received November 20, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 28, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 20, 2023
Date Analyzed: November 20, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23243-22	23243-23	23243-24	23243-25	23243-26	23243-27
Sample I.D.:	Roux07S	Roux06S	RouxB02S	Roux05S	RouxB01S	Roux04S
	20231120	20231120	20231120	20231120	20231120	20231120
Components	(Concentration in ppmv)					
Hydrogen sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Carbonyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Methyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Ethyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Carbon disulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
i-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
t-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
n-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
s-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
i-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl disulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Tetrahydrothiophene	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Unidentified sulfurs	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND	ND
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ND - Not Detected



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 28, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 20, 2023
Date Analyzed: November 20, 2023

ANALYSIS DESCRIPTION


Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23243-28	23243-29	23243-30	23243-31	23243-32
Sample I.D.:	Roux02S	Roux03S	Roux01S	Roux05S	RouxB02S
	20231120	20231120	20231120	20231120-D	20231120-D
<u>Components</u>	(Concentration in ppmv)				
Hydrogen sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Carbonyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Methyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Ethyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Carbon disulfide	<0.028	<0.028	<0.028	<0.028	<0.028
i-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
t-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
n-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
s-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
i-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl disulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Tetrahydrothiophene	<0.028	<0.028	<0.028	<0.028	<0.028
Unidentified sulfurs	<0.028	<0.028	<0.028	<0.028	<0.028

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
--------------	----	----	----	----	----

ND - Not Detected


Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: November 20, 2023
Date Analyzed: November 20, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
Carbonyl sulfide	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
Methyl mercaptan	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
Ethyl mercaptan	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Concentration in ppmv)</i>			
Dimethyl sulfide	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
Carbon disulfide	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
i-Propyl mercaptan	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
t-Butyl mercaptan	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
n-Propyl mercaptan	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
s-Butyl mercaptan	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
i-Butyl mercaptan	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	
Dimethyl disulfide	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
RouxB02S-20231120-D	<0.028	<0.028	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Concentration in ppmv)</i>			
Tetrahydrothiophene	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
	RouxB02S-20231120-D	<0.028	<0.028	---	---
Unidentified sulfurs	Roux07S-20231120	<0.028	<0.028	---	---
	Roux06S-20231120	<0.028	<0.028	---	---
	RouxB02S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120	<0.028	<0.028	---	---
	RouxB01S-20231120	<0.028	<0.028	---	---
	Roux04S-20231120	<0.028	<0.028	---	---
	Roux02S-20231120	<0.028	<0.028	---	---
	Roux03S-20231120	<0.028	<0.028	---	---
	Roux01S-20231120	<0.028	<0.028	---	---
	Roux05S-20231120-D	<0.028	<0.028	---	---
	RouxB02S-20231120-D	<0.028	<0.028	---	---

Eleven Tedlar bag samples, laboratory numbers 23243-(22-32), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".



QUALITY ASSURANCE SUMMARY
(SCD Instrument 1)

Project Location: Chiquita Canyon
 Date Received: November 20, 2023
 Date Analyzed: November 20, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.028	1.00	0.97	97.2	1.00	0.95	95.2
Carbonyl sulfide	<0.028	0.98	0.97	98.9	0.98	0.92	93.4
Methyl mercaptan	<0.028	1.02	0.99	97.3	1.02	0.94	93.0
Ethyl mercaptan	<0.028	1.03	1.06	102	1.03	0.97	93.5
Dimethyl sulfide	<0.028	1.06	1.11	105	1.06	1.00	94.7
Carbon disulfide	<0.028	1.07	1.14	106	1.07	1.03	95.5
i-Propyl mercaptan	<0.028	1.07	1.16	108	1.07	1.02	95.3
t-Butyl mercaptan	<0.028	1.05	1.13	108	1.05	0.99	94.5
n-Propyl mercaptan	<0.028	1.09	1.16	106	1.09	1.05	96.9
s-Butyl mercaptan	<0.028	1.02	1.08	106	1.02	0.98	96.6
i-Butyl mercaptan	<0.028	1.11	1.17	105	1.11	1.09	98.2
Tetrahydrothiophene	<0.028	1.04	1.12	107	1.04	1.03	99.3



QUALITY ASSURANCE SUMMARY
(SCD Instrument 2)

Project Location: Chiquita Canyon
 Date Received: November 20, 2023
 Date Analyzed: November 20, 2023

Components	Blank	Std conc.	Initial	% Rec.	Std conc.	Closing	% Rec.
	PQL		Conc.			Conc.	
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.028	1.00	1.02	102	1.00	1.03	103
Carbonyl sulfide	<0.028	0.98	1.04	106	0.98	1.11	113
Methyl mercaptan	<0.028	1.02	1.07	105	1.02	1.11	109
Ethyl mercaptan	<0.028	1.03	1.07	104	1.03	1.14	110
Dimethyl sulfide	<0.028	1.06	1.11	105	1.06	1.18	112
Carbon disulfide	<0.028	1.07	1.15	107	1.07	1.21	113
i-Propyl mercaptan	<0.028	1.07	1.15	107	1.07	1.23	115
t-Butyl mercaptan	<0.028	1.05	1.09	104	1.05	1.18	113
n-Propyl mercaptan	<0.028	1.09	1.10	101	1.09	1.21	111
s-Butyl mercaptan	<0.028	1.02	1.02	100	1.02	1.15	113
i-Butyl mercaptan	<0.028	1.11	1.12	101	1.11	1.26	114
Tetrahydrothiophene	<0.028	1.04	1.12	108	1.04	1.23	118



CHAIN OF CUSTODY RECORD

Client/Project Name: Roux/Chiquita Canyon
Project Location: 29201 Henry May Drive, Castaic, CA 91384
Project Number: 2471.0001L003
Field Logbook Number:

Sampler: (Signature) *[Signature]*
 Turnaround Times: X Standard 10 day
 Expedited: 24hr / 48hr / 72hr / 5 day

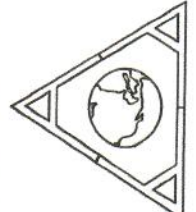
Client Sample Identification	Type of Sample Canister ID	AtmAA Lab Number	Sampling Date	Sampling Time	Special Remarks	ANALYSES REQUESTED	
						SCQAQMD 307.91 (Sulfur)	
ROUX07S-2023 1120	1L Tedlar	23243-22	11/20/23	1427		X	
ROUX06S-2023 1120	1L Tedlar	-23	11/20/23	1443		X	
ROUXB02S-2023 1120	1L Tedlar	-24	11/20/23	1455		X	
ROUX05S-2023 1120	1L Tedlar	-25	11/20/23	1511		X	
ROUXB01S-2023 1120	1L Tedlar	-26	11/20/23	1527		X	
ROUX04S-2023 1120	1L Tedlar	-27	11/20/23	1539		X	
ROUX02S-2023 1120	1L Tedlar	-28	11/20/23	1548		X	
ROUX03S-2023 1120	1L Tedlar	-29	11/20/23	1558		X	
ROUX01S-2023 1120	1L Tedlar	-30	11/20/23	1410		X	
ROUX05 S-2023 1120 -D	1L Tedlar	-31	11/20/23	1512		X	
ROUXB02 S-2023 1120 -D	1L Tedlar	-32	11/20/23	1457		X	
Relinquished by: (Signature) <i>[Signature]</i>		Date	Time	Received by: (Signature)			
		11/20/23	1715				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)			
Relinquished by: (Signature)		Date	Time	Received for Laboratory by: (Signature)			

Company Info:

Company: Roux Associates, Inc.	Analytical Laboratory
Street Address: 5150 E PCH, STE 450	AtmAA Inc.
City/State/Zip: Long Beach, CA 90804	23917 Craftsman Rd.
Telephone No.: 562-446-8624	Calabasas, CA 91302
Email Address: amcquire@rouxinc.com	TEL: (818) 223-3277
	Email Address: info@atmaa.com

Send Report to:

Company: Roux Associates, Inc.
Street Address: 5150 E PCH, STE 450
City/State/Zip: Long Beach, CA 90804
Project Manager: April McGuire
Email Address: amcquire@rouxinc.com





AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

December 1, 2023

LTR/2320/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received November 27, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 1, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 27, 2023
Date Analyzed: November 28, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23313-14	23313-15	23313-16	23313-17	23313-18	23313-19
Sample I.D.:	Roux07S	Roux06S	RouxB02S	Roux05S	RouxB01S	Roux04S
	20231127	20231127	20231127	20231127	20231127	20231127
<u>Components</u>	(Concentration in ppmv)					
Hydrogen sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Carbonyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Methyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Ethyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Carbon disulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
i-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
t-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
n-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
s-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
i-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl disulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Tetrahydrothiophene	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Unidentified sulfurs	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND	ND
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ND - Not Detected



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 1, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: November 27, 2023
Date Analyzed: November 28, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23313-20	23313-21	23313-22	23313-23	23313-24
Sample I.D.:	Roux02S	Roux03S	Roux01S	Roux06S	RouxB02S
	20231127	20231127	20231127	20231127-D	20231127-D
<u>Components</u>	(Concentration in ppmv)				
Hydrogen sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Carbonyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Methyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Ethyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Carbon disulfide	<0.028	<0.028	<0.028	<0.028	<0.028
i-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
t-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
n-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
s-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
i-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl disulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Tetrahydrothiophene	<0.028	<0.028	<0.028	<0.028	<0.028
Unidentified sulfurs	<0.028	<0.028	<0.028	<0.028	<0.028

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
--------------	----	----	----	----	----

ND - Not Detected

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: November 27, 2023
Date Analyzed: November 28, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
Carbonyl sulfide	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
Methyl mercaptan	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
Ethyl mercaptan	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Dimethyl sulfide	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
Carbon disulfide	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
i-Propyl mercaptan	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
t-Butyl mercaptan	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
n-Propyl mercaptan	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
s-Butyl mercaptan	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
i-Butyl mercaptan	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	
Dimethyl disulfide	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
RouxB02S-20231127-D	<0.028	<0.028	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Tetrahydrothiophene	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
	RouxB02S-20231127-D	<0.028	<0.028	---	---
Unidentified sulfurs	Roux07S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127	<0.028	<0.028	---	---
	RouxB02S-20231127	<0.028	<0.028	---	---
	Roux05S-20231127	<0.028	<0.028	---	---
	RouxB01S-20231127	<0.028	<0.028	---	---
	Roux04S-20231127	<0.028	<0.028	---	---
	Roux02S-20231127	<0.028	<0.028	---	---
	Roux03S-20231127	<0.028	<0.028	---	---
	Roux01S-20231127	<0.028	<0.028	---	---
	Roux06S-20231127-D	<0.028	<0.028	---	---
	RouxB02S-20231127-D	<0.028	<0.028	---	---

Eleven Tedlar bag samples, laboratory numbers 23313-(14-24), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".



QUALITY ASSURANCE SUMMARY
(SCD Instrument 1)

Project Location: Chiquita Canyon
 Date Received: November 27, 2023
 Date Analyzed: November 28, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.028	1.00	1.00	99.7	1.00	1.08	108
Carbonyl sulfide	<0.028	0.98	0.99	101	0.98	1.05	107
Methyl mercaptan	<0.028	1.02	1.03	101	1.02	1.08	107
Ethyl mercaptan	<0.028	1.03	1.06	102	1.03	1.13	109
Dimethyl sulfide	<0.028	1.06	1.08	102	1.06	1.17	111
Carbon disulfide	<0.028	1.07	1.06	98.8	1.07	1.19	111
i-Propyl mercaptan	<0.028	1.07	1.08	101	1.07	1.19	111
t-Butyl mercaptan	<0.028	1.05	1.05	101	1.05	1.16	111
n-Propyl mercaptan	<0.028	1.09	1.11	102	1.09	1.23	113
s-Butyl mercaptan	<0.028	1.02	1.03	101	1.02	1.18	116
i-Butyl mercaptan	<0.028	1.11	1.11	100	1.11	1.28	116
Tetrahydrothiophene	<0.028	1.04	1.08	103	1.04	1.25	120



QUALITY ASSURANCE SUMMARY
(SCD Instrument 2)

Project Location: Chiquita Canyon
 Date Received: November 27, 2023
 Date Analyzed: November 28, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.028	1.00	0.97	96.4	1.00	0.99	99.0
Carbonyl sulfide	<0.028	0.98	1.05	106	0.98	1.01	103
Methyl mercaptan	<0.028	1.02	1.08	107	1.02	1.00	98.5
Ethyl mercaptan	<0.028	1.03	1.09	105	1.03	0.97	94.1
Dimethyl sulfide	<0.028	1.06	1.15	109	1.06	0.99	94.1
Carbon disulfide	<0.028	1.07	1.18	110	1.07	1.09	102
i-Propyl mercaptan	<0.028	1.07	1.21	113	1.07	1.07	100
t-Butyl mercaptan	<0.028	1.05	1.20	115	1.05	1.07	102
n-Propyl mercaptan	<0.028	1.09	1.16	106	1.09	1.02	94.0
s-Butyl mercaptan	<0.028	1.02	1.12	110	1.02	0.95	93.8
i-Butyl mercaptan	<0.028	1.11	1.22	110	1.11	1.04	93.9
Tetrahydrothiophene	<0.028	1.04	1.15	110	1.04	1.07	103



CHAIN OF CUSTODY RECORD

Client/Project Name: Roux/Chiquita Canyon		Project Location: 29201 Henry May Drive, Castaic, CA 91384			ANALYSES REQUESTED							
Project Number: 2471.0001L003		Field Logbook Number:			SCAQMD 307.91 (Sulfur)							
Sampler: (Signature) <i>Camille</i>		Turnaround Times: X Standard 10 day Expedited: 24hr / 48hr / 72hr / 5 day										
Client Sample Identification	Type of Sample Canister ID	AtmAA Lab Number	Sampling Date	Sampling Time								Special Remarks
ROUX07S-2023 1127	1L Tedlar	23313-14	11/27/23	1424	X							
ROUX06S-2023 1127	1L Tedlar	15	11/27/23	1437	X							
ROUXB02S-2023 1127	1L Tedlar	16	11/27/23	1455	X							
ROUX05S-2023 1127	1L Tedlar	17	11/27/23	1505	X							
ROUXB01S-2023 1127	1L Tedlar	18	11/27/23	1515	X							BAG B02S
ROUX04S-2023 1127	1L Tedlar	19	11/27/23	1530	X							
ROUX02S-2023 1127	1L Tedlar	20	11/27/23	1537	X							
ROUX03S-2023 1127	1L Tedlar	21	11/27/23	1544	X							BAG 02S
ROUX01S-2023 1127	1L Tedlar	22	11/27/23	1551	X							
ROUX06 S-2023 1127-D	1L Tedlar	23	11/27/23	1438	X							
ROUXB01 S-2023 1127-D	1L Tedlar	-24	11/27/23	1516	X							BAG B02S →
Relinquished by: (Signature)		Date	Time	Received by: (Signature)			Date	Time				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)			Date	Time				
Relinquished by: (Signature) <i>Camille, ROUX</i>		Date	Time	Received for Laboratory by: (Signature)			Date	Time				
Company Info:		Send Report to:			Analytical Laboratory							
Company: Roux Associates, Inc.		Company: Roux Associates, Inc.			AtmAA Inc.							
Street Address 5150 E PCH, STE 450		Street Address 5150 E PCH, STE 450			23917 Craftsman Rd.							
City/State/Zip: Long Beach, CA 90804		City/State/Zip: Long Beach, CA 90804			Calabasas, CA 91302							
Telephone No.: 562-446-8624		Project Manager: April McGuire			TEL: (818) 223-3277							
Email Address: amcguire@rouxinc.com		Email Address: amcguire@rouxinc.com			Email Address: info@atmaa.com							





AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

December 14, 2023

LTR/2325/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received December 5, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 14, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: December 5, 2023
Date Analyzed: December 5, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23393-5	23393-6	23393-7	23393-8	23393-9	23393-10
Sample I.D.:	Roux07S	Roux06S	RouxB02S	Roux05S	RouxB01S	Roux04S
	20231205	20231205	20231205	20231205	20231205	20231205
<u>Components</u>	<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Carbonyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Methyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Ethyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Carbon disulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
i-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
t-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
n-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
s-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
i-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl disulfide	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Tetrahydrothiophene	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Unidentified sulfurs	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND	ND
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ND - Not Detected



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 14, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: December 5, 2023
Date Analyzed: December 5, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23393-11	23393-12	23393-13	23393-14	23393-15
Sample I.D.:	Roux02S	Roux03S	Roux01S	Roux02S	Roux01S
	20231205	20231205	20231205	20231205-D	20231205-D
Components	(Concentration in ppmv)				
Hydrogen sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Carbonyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Methyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Ethyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl sulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Carbon disulfide	<0.028	<0.028	<0.028	<0.028	<0.028
i-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
t-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
n-Propyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
s-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
i-Butyl mercaptan	<0.028	<0.028	<0.028	<0.028	<0.028
Dimethyl disulfide	<0.028	<0.028	<0.028	<0.028	<0.028
Tetrahydrothiophene	<0.028	<0.028	<0.028	<0.028	<0.028
Unidentified sulfurs	<0.028	<0.028	<0.028	<0.028	<0.028

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
--------------	----	----	----	----	----

ND - Not Detected

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: December 5, 2023
Date Analyzed: December 5, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
RouxB01S-20231205-D	<0.028	<0.028	---	---	
Carbonyl sulfide	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
RouxB01S-20231205-D	<0.028	<0.028	---	---	
Methyl mercaptan	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
RouxB01S-20231205-D	<0.028	<0.028	---	---	
Ethyl mercaptan	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
RouxB01S-20231205-D	<0.028	<0.028	---	---	



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Dimethyl sulfide	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---
Carbon disulfide	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---
i-Propyl mercaptan	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---
t-Butyl mercaptan	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
n-Propyl mercaptan	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---
s-Butyl mercaptan	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---
i-Butyl mercaptan	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---
Dimethyl disulfide	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Tetrahydrothiophene	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---
Unidentified sulfurs	Roux07S-20231205	<0.028	<0.028	---	---
	Roux06S-20231205	<0.028	<0.028	---	---
	RouxB02S-20231205	<0.028	<0.028	---	---
	Roux05S-20231205	<0.028	<0.028	---	---
	RouxB01S-20231205	<0.028	<0.028	---	---
	Roux04S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205	<0.028	<0.028	---	---
	Roux03S-20231205	<0.028	<0.028	---	---
	Roux01S-20231205	<0.028	<0.028	---	---
	Roux02S-20231205-D	<0.028	<0.028	---	---
	RouxB01S-20231205-D	<0.028	<0.028	---	---

Eleven Tedlar bag samples, laboratory numbers 23393-(5-15), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".



QUALITY ASSURANCE SUMMARY
(SCD Instrument 1)

Project Location: Chiquita Canyon
Date Received: December 5, 2023
Date Analyzed: December 5, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.028	1.00	1.06	106	1.00	0.92	91.9
Carbonyl sulfide	<0.028	0.98	1.09	111	0.98	1.04	106
Methyl mercaptan	<0.028	1.02	0.99	97.9	1.02	0.97	95.6
Ethyl mercaptan	<0.028	1.03	1.05	102	1.03	1.03	100
Dimethyl sulfide	<0.028	1.06	1.11	105	1.06	1.10	104
Carbon disulfide	<0.028	1.07	1.25	117	1.07	1.22	114
i-Propyl mercaptan	<0.028	1.07	1.14	107	1.07	1.18	110
t-Butyl mercaptan	<0.028	1.05	1.08	103	1.05	1.13	108
n-Propyl mercaptan	<0.028	1.09	1.17	108	1.09	1.20	110
s-Butyl mercaptan	<0.028	1.02	1.02	100	1.02	1.08	106
i-Butyl mercaptan	<0.028	1.11	1.13	102	1.11	1.18	106
Tetrahydrothiophene	<0.028	1.04	1.07	103	1.04	1.13	109



QUALITY ASSURANCE SUMMARY
(SCD Instrument 2)

Project Location: Chiquita Canyon
Date Received: December 5, 2023
Date Analyzed: December 5, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.028	1.00	1.04	104	1.00	1.12	112
Carbonyl sulfide	<0.028	0.98	1.03	105	0.98	1.08	110
Methyl mercaptan	<0.028	1.02	1.09	107	1.02	1.13	111
Ethyl mercaptan	<0.028	1.03	1.06	103	1.03	1.14	110
Dimethyl sulfide	<0.028	1.06	1.08	102	1.06	1.14	108
Carbon disulfide	<0.028	1.07	1.08	101	1.07	1.15	107
i-Propyl mercaptan	<0.028	1.07	1.11	104	1.07	1.17	109
t-Butyl mercaptan	<0.028	1.05	1.08	103	1.05	1.22	117
n-Propyl mercaptan	<0.028	1.09	1.10	101	1.09	1.17	108
s-Butyl mercaptan	<0.028	1.02	1.03	101	1.02	1.12	110
i-Butyl mercaptan	<0.028	1.11	1.14	103	1.11	1.20	108
Tetrahydrothiophene	<0.028	1.04	1.05	101	1.04	1.07	103





AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

December 14, 2023

LTR/2326/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received December 11, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 14, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: December 11, 2023
Date Analyzed: December 11, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23453-22	23453-23	23453-24	23453-25	23453-26	23453-27
Sample I.D.:	Roux07S	Roux06S	RouxB02S	Roux05S	RouxB01S	Roux04S
	20231211	20231211	20231211	20231211	20231211	20231211
<u>Components</u>	(Concentration in ppmv)					
Hydrogen sulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Carbonyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Methyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Carbon disulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
i-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
t-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
s-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
i-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl disulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrahydrothiophene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Unidentified sulfurs	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND	ND
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ND - Not Detected



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 14, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: December 11, 2023
Date Analyzed: December 11, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23453-28	23453-29	23453-30	23453-31	23453-32
Sample I.D.:	Roux02S	Roux03S	Roux01S	Roux07S	RouxB02S
	20231211	20231211	20231211	20231211-D	20231211-D
<u>Components</u>	(Concentration in ppmv)				
Hydrogen sulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Carbonyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Methyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
Ethyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Carbon disulfide	<0.025	<0.025	<0.025	<0.025	<0.025
i-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
t-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
n-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
s-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
i-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl disulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrahydrothiophene	<0.025	<0.025	<0.025	<0.025	<0.025
Unidentified sulfurs	<0.025	<0.025	<0.025	<0.025	<0.025

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
--------------	----	----	----	----	----

ND - Not Detected



Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
 Date Received: December 11, 2023
 Date Analyzed: December 11, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
<i>(Concentration in ppmv)</i>					
Hydrogen sulfide	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	
Carbonyl sulfide	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	
Methyl mercaptan	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	
Ethyl mercaptan	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Dimethyl sulfide	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
	RouxB02S-20231211-D	<0.025	<0.025	---	---
Carbon disulfide	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
	RouxB02S-20231211-D	<0.025	<0.025	---	---
i-Propyl mercaptan	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
	RouxB02S-20231211-D	<0.025	<0.025	---	---
t-Butyl mercaptan	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
	RouxB02S-20231211-D	<0.025	<0.025	---	---



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
n-Propyl mercaptan	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	
s-Butyl mercaptan	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	
i-Butyl mercaptan	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	
Dimethyl disulfide	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
RouxB02S-20231211-D	<0.025	<0.025	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Tetrahydrothiophene	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
	RouxB02S-20231211-D	<0.025	<0.025	---	---
Unidentified sulfurs	Roux07S-20231211	<0.025	<0.025	---	---
	Roux06S-20231211	<0.025	<0.025	---	---
	RouxB02S-20231211	<0.025	<0.025	---	---
	Roux05S-20231211	<0.025	<0.025	---	---
	RouxB01S-20231211	<0.025	<0.025	---	---
	Roux04S-20231211	<0.025	<0.025	---	---
	Roux02S-20231211	<0.025	<0.025	---	---
	Roux03S-20231211	<0.025	<0.025	---	---
	Roux01S-20231211	<0.025	<0.025	---	---
	Roux07S-20231211-D	<0.025	<0.025	---	---
	RouxB02S-20231211-D	<0.025	<0.025	---	---

Eleven Tedlar bag samples, laboratory numbers 23453-(22-32), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".






QUALITY ASSURANCE SUMMARY
(SCD Instrument 1)

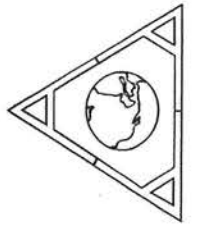
Project Location: Chiquita Canyon
 Date Received: December 11, 2023
 Date Analyzed: December 11, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.025	1.00	0.98	98.3	1.00	0.91	91.1
Carbonyl sulfide	<0.025	0.98	1.02	104	0.98	0.97	98.8
Methyl mercaptan	<0.025	1.02	1.03	101	1.02	0.98	96.3
Ethyl mercaptan	<0.025	1.03	1.03	100	1.03	0.96	93.2
Dimethyl sulfide	<0.025	1.06	1.09	103	1.06	1.00	94.7
Carbon disulfide	<0.025	1.07	1.09	102	1.07	1.03	96.0
i-Propyl mercaptan	<0.025	1.07	1.10	103	1.07	1.02	95.3
t-Butyl mercaptan	<0.025	1.05	1.06	101	1.05	1.00	95.5
n-Propyl mercaptan	<0.025	1.09	1.10	101	1.09	1.02	93.9
s-Butyl mercaptan	<0.025	1.02	1.04	102	1.02	0.97	94.9
i-Butyl mercaptan	<0.025	1.11	1.13	102	1.11	1.04	93.8
Tetrahydrothiophene	<0.025	1.04	1.10	106	1.04	0.98	94.2



CHAIN OF CUSTODY RECORD

Client/Project Name: Roux/Chiquita Canyon		Project Location: 29201 Henry May Drive, Castaic, CA 91384		ANALYSES REQUESTED					
Project Number: 2471.0001L003		Field Logbook Number:							
Sampler: (Signature) 		Turnaround Times: X Standard 10 day Expedited: 24hr / 48hr / 72hr / 5 day		SCAQMD 307.91 (Sulfur)					
Client Sample Identification	Type of Sample Canister ID	AtmAA Lab Number	Sampling Date			Sampling Time	Special Remarks		
ROUX07S-2023 1211	1L Tedlar	23453-22	12/11/23			1214	X		
ROUX06S-2023 1211	1L Tedlar	-23	12/11/23			1227	X		
ROUXB02S-2023 1211	1L Tedlar	-24	12/11/23			1244	X		
ROUX05S-2023 1211	1L Tedlar	-25	12/11/23			1255	X		
ROUXB01S-2023 1211	1L Tedlar	-26	12/11/23			1308	X		
ROUX04S-2023 1211	1L Tedlar	-27	12/11/23			1317	X		
ROUX02S-2023 1211	1L Tedlar	-28	12/11/23			1325	X		
ROUX03S-2023 1211	1L Tedlar	-29	12/11/23			1333	X		
ROUX01S-2023 1211	1L Tedlar	-30	12/11/23			1337	X		
ROUX0 7 S-2023 1211 -D	1L Tedlar	-31	12/11/23			1215	X		
ROUXB0 2 S-2023 1211 -D	1L Tedlar	-32	12/11/23	1245	X				
Relinquished by: (Signature) 		Date	12/11/23	Time	1350	Date	12/11/23	Time	1350
Relinquished by: (Signature)		Date		Time		Date		Time	
Relinquished by: (Signature) 		Date	12/11/23	Time	235	Date	12-11-23	Time	2:35
Company Info:		Send Report to:		Analytical Laboratory					
Company: Roux Associates, Inc.		Company: Roux Associates, Inc.		AtmAA Inc.					
Street Address 5150 E PCH, STE 450		Street Address 5150 E PCH, STE 450		23917 Craftsman Rd.					
City/State/Zip: Long Beach, CA 90804		City/State/Zip: Long Beach, CA 90804		Calabasas, CA 91302					
Telephone No.: 562-446-8624		Project Manager: April McGuire		TEL: (818) 223-3277					
Email Address: amcguire@rouxinc.com		Email Address: amcguire@rouxinc.com		Email Address: info@atmaa.com					





AtmAA Inc.

23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277

specialized air assessment laboratory
atmaa.com

December 14, 2023

LTR/2327/23

April McGuire
Roux Associates, Inc.
5150 E. PCH
Ste. 450
Long Beach, CA 90804

Re: Chiquita Canyon / 2471.0001L003

Dear April,

Please find enclosed the laboratory analysis report, quality assurance summary, and chain of custody form for 11 Tedlar bag samples received December 12, 2023.

The Tedlar bag samples were analyzed for SCAQMD 307.91 total sulfur components as requested on the chain of custody form.

Sincerely,

AtmAA, Inc.

Brian W. Fung
Laboratory Director



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 14, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: December 12, 2023
Date Analyzed: December 12, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23463-18	23463-19	23463-20	23463-21	23463-22	23463-23
Sample I.D.:	Roux07S	Roux06S	RouxB02S	Roux05S	RouxB01S	Roux04S
	20231212	20231212	20231212	20231212	20231212	20231212
<u>Components</u>	(Concentration in ppmv)					
Hydrogen sulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Carbonyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Methyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Carbon disulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
i-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
t-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
s-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
i-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl disulfide	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrahydrothiophene	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Unidentified sulfurs	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND	ND
--------------	----	----	----	----	----	----

ND - Not Detected



LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: December 14, 2023
Client: Roux Associates, Inc.
Project Location: Chiquita Canyon
Project No.: 2471.0001L003
Date Received: December 12, 2023
Date Analyzed: December 12, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23463-24	23463-25	23463-26	23463-27	23463-28
Sample I.D.:	Roux02S	Roux03S	Roux01S	Roux01S	RouxB02S
	20231212	20231212	20231212	20231212-D	20231212-D
<u>Components</u>	(Concentration in ppmv)				
Hydrogen sulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Carbonyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Methyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
Ethyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl sulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Carbon disulfide	<0.025	<0.025	<0.025	<0.025	<0.025
i-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
t-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
n-Propyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
s-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
i-Butyl mercaptan	<0.025	<0.025	<0.025	<0.025	<0.025
Dimethyl disulfide	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrahydrothiophene	<0.025	<0.025	<0.025	<0.025	<0.025
Unidentified sulfurs	<0.025	<0.025	<0.025	<0.025	<0.025

(Concentration in ppmv, as H₂S)

Total Sulfur	ND	ND	ND	ND	ND
--------------	----	----	----	----	----

ND - Not Detected

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Received: December 12, 2023
Date Analyzed: December 12, 2023

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		<i>(Concentration in ppmv)</i>			
Hydrogen sulfide	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
Carbonyl sulfide	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
Methyl mercaptan	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
Ethyl mercaptan	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Dimethyl sulfide	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
Carbon disulfide	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
i-Propyl mercaptan	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
t-Butyl mercaptan	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	



QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
n-Propyl mercaptan	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
s-Butyl mercaptan	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
i-Butyl mercaptan	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	
Dimethyl disulfide	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
RouxB02S-20231212-D	<0.025	<0.025	---	---	



QUALITY ASSURANCE SUMMARY
 (Repeat Analyses)
 (continued)

Components	Sample ID	Repeat Analysis		Mean Conc.	% RPD
		Run #1	Run #2		
		(Concentration in ppmv)			
Tetrahydrothiophene	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
	RouxB02S-20231212-D	<0.025	<0.025	---	---
Unidentified sulfurs	Roux07S-20231212	<0.025	<0.025	---	---
	Roux06S-20231212	<0.025	<0.025	---	---
	RouxB02S-20231212	<0.025	<0.025	---	---
	Roux05S-20231212	<0.025	<0.025	---	---
	RouxB01S-20231212	<0.025	<0.025	---	---
	Roux04S-20231212	<0.025	<0.025	---	---
	Roux02S-20231212	<0.025	<0.025	---	---
	Roux03S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212	<0.025	<0.025	---	---
	Roux01S-20231212-D	<0.025	<0.025	---	---
	RouxB02S-20231212-D	<0.025	<0.025	---	---

Eleven Tedlar bag samples, laboratory numbers 23463-(18-28), were analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD".



QUALITY ASSURANCE SUMMARY
(SCD Instrument 1)

Project Location: Chiquita Canyon
Date Received: December 12, 2023
Date Analyzed: December 12, 2023

Components	Blank PQL	Std conc.	Initial Conc.	% Rec.	Std conc.	Closing Conc.	% Rec.
	<i>(Concentration in ppmv)</i>						
Hydrogen sulfide	<0.025	1.00	0.96	95.7	1.00	0.93	92.9
Carbonyl sulfide	<0.025	0.98	0.97	98.3	0.98	0.98	99.8
Methyl mercaptan	<0.025	1.02	0.99	97.4	1.02	0.96	94.5
Ethyl mercaptan	<0.025	1.03	1.01	97.8	1.03	1.01	97.8
Dimethyl sulfide	<0.025	1.06	1.04	98.4	1.06	1.05	99.4
Carbon disulfide	<0.025	1.07	1.07	99.7	1.07	1.06	98.8
i-Propyl mercaptan	<0.025	1.07	1.02	95.3	1.07	1.04	97.2
t-Butyl mercaptan	<0.025	1.05	1.00	95.1	1.05	1.01	96.5
n-Propyl mercaptan	<0.025	1.09	1.05	96.6	1.09	1.00	91.8
s-Butyl mercaptan	<0.025	1.02	1.00	98.3	1.02	0.97	95.1
i-Butyl mercaptan	<0.025	1.11	1.12	101	1.11	1.07	96.5
Tetrahydrothiophene	<0.025	1.04	1.05	101	1.04	0.99	95.2



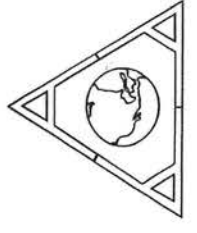
CHAIN OF CUSTODY RECORD

Client/Project Name: Roux/Chiquita Canyon
 Project Number: 2471.0001L003
 Project Location: 29201 Henry May Drive, Castaic, CA 91384
 Field Logbook Number:

Sampler: (Signature) *[Signature]*
 Turnaround Times: X Standard 10 day
 Expedited: 24hr / 48hr / 72hr / 5 day

Client Sample Identification	Type of Sample Canister ID	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED		Special Remarks
					SCAQMD 307.91 (Sulfur)		
ROUX07S-2023 1212	1L Tedlar	23403-18	12/12/23	1756	X		
ROUX06S-2023 1212	1L Tedlar	-19	12/12/23	1318	X		
ROUXB02S-2023 1212	1L Tedlar	-20	12/12/23	1349	X		
ROUX05S-2023 1212	1L Tedlar	-21	12/12/23	1335	X		
ROUXB01S-2023 1212	1L Tedlar	-22	12/12/23	1222	X		
ROUX04S-2023 1212	1L Tedlar	-23	12/12/23	1211	X		
ROUX02S-2023 1212	1L Tedlar	-24	12/12/23	1205	X		
ROUX03S-2023 1212	1L Tedlar	-25	12/12/23	1141	X		
ROUX01S-2023 1212	1L Tedlar	-26	12/12/23	1152	X		
ROUX0 1 S-2023 1212 -D	1L Tedlar	-27	12/12/23	1155	X		
ROUXB0 2 S-2023 1212 -D	1L Tedlar	-28	12/12/23	1351	X		

Relinquished by: (Signature) *[Signature]* Date: 12/12/23 Time: 1504 Received by: (Signature)
 Relinquished by: (Signature) Date: Time Received by: (Signature)
 Relinquished by: (Signature) Date: Time Received by: (Signature)
 Company Info: Company: Roux Associates, Inc. Street Address 5150 E PCH, STE 450 City/State/Zip: Long Beach, CA 90804 Telephone No.: 562-446-8624 Email Address: amcguire@rouxinc.com
 Send Report to: Company: Roux Associates, Inc. Street Address 5150 E PCH, STE 450 City/State/Zip: Long Beach, CA 90804 Project Manager: April McGuire Email Address: amcguire@rouxinc.com
 Analytical Laboratory: AtmAA Inc. 23917 Craftsman Rd. Calabasas, CA 91302 TEL: (818) 223-3277 Email Address: info@atmaa.com



APPENDIX C

Human Health Risk Assessment



Human Health Screening Evaluation and Odor Evaluation

Chiquita Landfill
East Los Angeles, California

February 7, 2024

Prepared for:

County of Los Angeles

Prepared by:

Roux Associates, Inc.
200 Summit Drive, Suite 500
Burlington, Massachusetts 01803

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HUMAN HEALTH SCREENING EVALUATION AND ODOR EVALUATION
Chiquita Landfill
East Los Angeles, California

Prepared By:



Stella Keck, MPH
Senior Scientist



Andrew Shapero, MPH
Senior Engineer



Catherine Boston, MPH, DABT
Principal Scientist/Risk Assessor

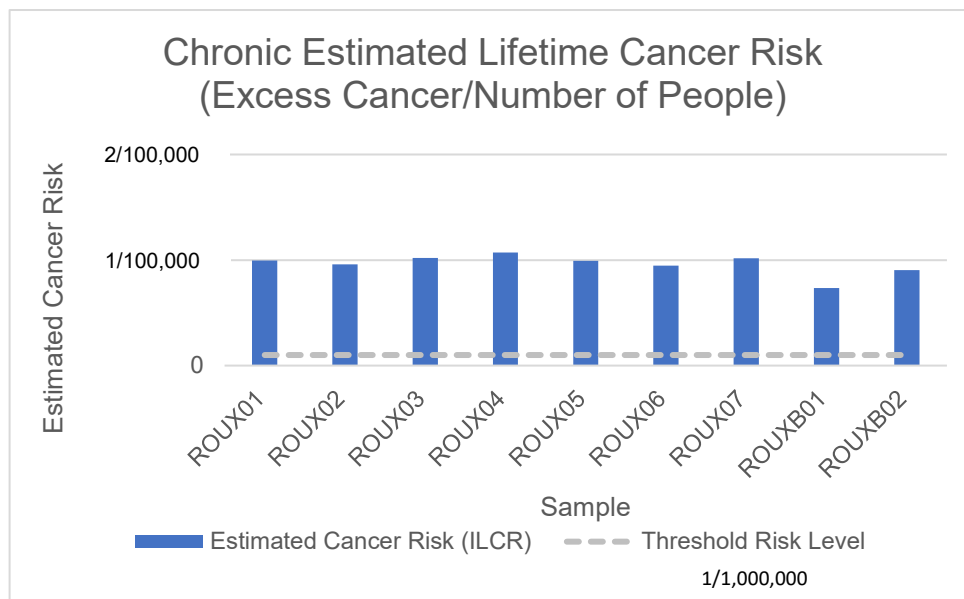
Executive Summary

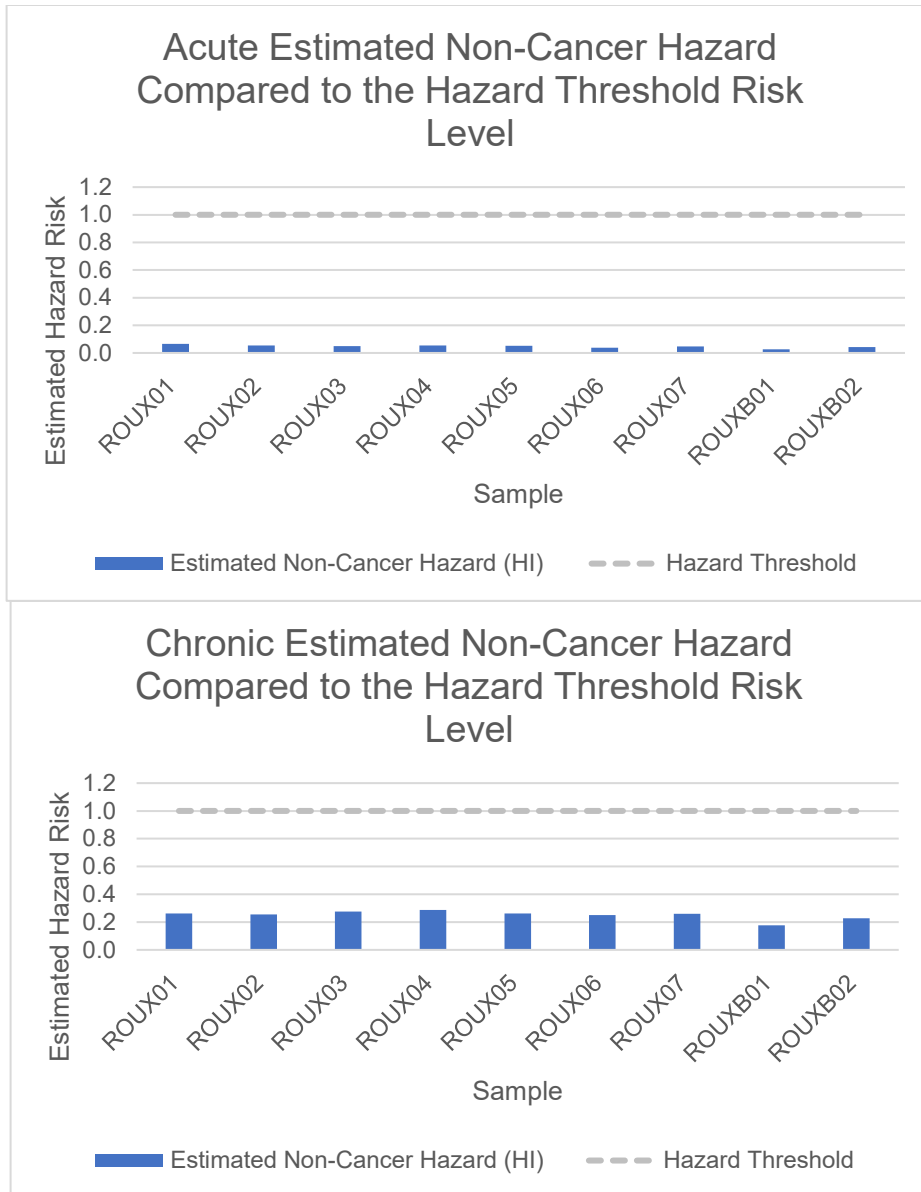
Roux Associates, Inc. (Roux), on behalf of the County of Los Angeles (County), has prepared this *Human Health Screening Evaluation and Odor Evaluation* (HHSE) for communities surrounding the Chiquita Canyon Landfill (Chiquita) at 29201 Henry May Drive in Castaic, California. This HHSE incorporates results of ambient/outdoor air sampling investigations conducted at 7 locations within the residential communities of Val Verde and Castaic (Communities), CA, (and two background locations) as part of the *Community Air Sampling and Health Risk Screening Evaluation Report* (Report) (to which this HHSE is attached).

The HHSE has two primary objectives:

1. The first objective of the HHSE is to provide a health protective evaluation of the potential risk from exposure to chemicals detected in the ambient air of the Communities pursuant to the California Department of Toxic Substance Control (DTSC) *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015), and other pertinent guidance.
2. The second objective of the HHSE is to investigate Community concerns about odors emitted from Chiquita. This includes evaluating the magnitude of odors emitted from Chiquita and potential adverse health outcomes associated with odor nuisances.

The results of the evaluation indicate that when using very health protective estimates of exposure, the chronic excess cancer risk exceeds the residential risk threshold of one per one-million people, but that the risk is not associated specifically with Chiquita Canyon Landfill emissions. Instead, the risk appears attributable to more general ambient air quality issues in the region. Non-cancer acute and non-cancer chronic risk thresholds were not exceeded.





While the odor issues experienced in the community surrounding the Chiquita Canyon Landfill cannot be explained by the detected VOCs, it is reasonable to conclude that the odors are associated with the sulfur compounds in the ambient air. There are no detectable cancer or non-cancer risk exceedances of the sulfur compounds in ambient air via laboratory analysis; however, the laboratory reporting limits are higher than many of the odor thresholds. Thus, concentrations of sulfur compounds in ambient air that are non-detect for cancer and non-cancer risk but are above odor thresholds, can result in persistent odors for the Community (especially when they are unpleasant), which may cause respiratory, neurological and inflammatory symptoms.

It is well-established that odorants can result in health impacts in the exposed populations. Development of symptoms following exposure to odorants can vary based on sensitivity to odor, how long exposure lasts, age, state of health and susceptibility (young children, pregnant women, elderly). The most common symptoms following exposure to odorants are headaches, nasal congestion, eye, nose and throat irritation, hoarseness/sore throat, cough, chest tightness, shortness of breath, wheezing, heart palpitations, nausea, drowsiness and mental depression (ATSDR, 2023b).

1. Introduction

Roux Associates, Inc. (Roux), on behalf of the County, has prepared this *Human Health Screening Evaluation and Odor Evaluation* (HHSE) for communities surrounding the Chiquita Canyon Landfill (Chiquita) at 29201 Henry May Drive in Castaic, California. This HHSE incorporates results of ambient/outdoor air sampling investigations conducted at 7 locations within the residential communities of Val Verde and Castaic (Communities), CA, (and two background locations) as part of the *Community Air Sampling and Health Risk Screening Evaluation Report* (Report) (to which this HHSE is attached).

The first objective of the HHSE is to provide a health protective evaluation of the potential risk from exposure to chemicals detected in the ambient air of the Communities. As such, the HHSE has been prepared to evaluate whether chemicals of potential concern (COPCs) found in ambient air in the Communities pose an unacceptable level of risk to residents (Section 3).

The HHSE was prepared pursuant to the DTSC *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015), and consists of four components:

- **Evaluation of Exposure Pathways:** Exposure to chemicals may occur via dermal contact, ingestion, or inhalation of COPCs present in soil and/or soil gas at the site;
- **Evaluation of Exposure to COPCs and Exposure Point Concentrations:** Identification of contaminants found in media at the site and determination of appropriate exposure point concentrations (EPCs)¹ for COPCs;
- **Evaluation of Chemical Toxicity:** Assessment of potential adverse effects of the COPCs and compilation of non-carcinogenic and carcinogenic toxicity values for use in numerical risk estimates; and
- **Risk Characterization:** Integration of results of the hazard assessment to provide a quantitative estimation of non-carcinogenic and carcinogenic risks.

Default exposure parameters from the DTSC and the United States Environmental Protection Agency (USEPA) were utilized to represent a Reasonable Maximum Exposure (RME) scenario. An RME scenario is the highest exposure that is reasonably expected to occur at a site. The HHSE evaluates current exposure to ambient air at the site.

The second objective of the HHSE is to investigate Community concerns about odors emitted from Chiquita. The HHSE assessed the magnitude of odors emitted from Chiquita and potential adverse health outcomes associated with odors (Section 4).

¹ Exposure point concentrations are the representative concentration for each contaminant.

1. Background

The Site includes the residential and commercial portions of Val Verde and Castaic within approximately 0.25 to 2.5 miles to the north/northeast of the Chiquita including the surrounding area bounded by the Interstate 5 (I-5) Freeway to the east and State Route 126 to the south (Figures 1 and 2 of the Report).

Val Verde and Castaic, California, are unincorporated communities located in Santa Clarita Valley approximately 35 miles north of Los Angeles. The Communities are bounded to the north by Hillcrest Parkway, to the west by Chiquita Canyon Road, to the south by State Route 126, and to the east by I-5. The Site includes sampling locations along multiple public rights of way, including Roosevelt Avenue, Stageline Road, Quincy Street, Hasley Canyon Road, and Cascade Road in Castaic, and Hunstock Street, Lincoln Avenue, Silver Street Hasley Canyon Road, and Stageline Road in Val Verde (Figure 3 of the Report).

2.1 Chiquita Landfill

In 2023, Chiquita began experiencing increased emissions of total reduced sulfur and sulfur oxides at levels in noncompliance with its Title V Permit. These increased sulfur levels suggest that Chiquita is undergoing an ETLF event. As a result, the South Coast Air Quality Management District (SCAQMD) has received more than 2,100 complaints from residents regarding odors emanating from Chiquita since May 2023 (primarily from residents of Val Verde and Castaic). While the nuisance odor complaints have been largely attributed to dimethyl sulfide (DMS), there is a concern about other potential landfill emission exposures, such as volatile organic compounds (VOCs).

At the direction of the Los Angeles County Department of Public Health (DPH), Chiquita retained CTEH to evaluate potential “short-and long-term health impacts, if any, associated with odor concerns.”² CTEH proposed evaluation of continuous air monitoring and weekly discrete air sampling performed by (SCS) as part of their monthly Community Air Monitoring Program (CAMP).

2.2 Historical Community Air Monitoring and Current Investigation

Prior to Roux’s involvement, Chiquita had been performing monitoring in the Community executed by SCS via the CAMP. SCS has been collecting weekly grab samples at twelve monitoring stations (MS-01 through MS-12) for VOCs, sulfur compounds, and odor using a Scentroid SS400 SixStation Portable Olfactometer (SS400). SCS also collected 24-hour samples at seven offsite monitoring stations (MS-06 through MS-12). Additionally, SCS reported continuous air monitoring for benzene, toluene, ethylbenzene, and xylenes (BTEX) as well as total reduced sulfur (TRS) via Aeroqual AQM65 units.

At the request of the LA County Department of Public Health, Roux prepared the Report to which this HHSE is appended in response to odor complaints from residents related to Chiquita’s emissions and to verify the work conducted by SCS. Roux’s air samples were evaluated for VOCs and sulfur compounds to assess the ETLF emissions from Chiquita. From October 31, 2023, through December 16, 2023, Roux collected Community and background ambient air samples. The evaluation included the collection of 24-hour ambient air samples for VOC analysis and the collection of discrete ambient air samples for sulfur compound analysis. Based on the samples collected and analyzed, no sulfur compounds were detected in any of the air samples (they were below their respective laboratory reporting limits, though at times, reporting limits were elevated). However, exceedances of the California Department of Toxic Substances Control (DTSC) residential screening levels (SLs) were detected for certain VOCs, including benzene and carbon tetrachloride at all

² CTEH, 2023. CTEH Human Health Risks and Environmental Impacts Workplan for the Lost Angeles County Department of Public Health on Behalf of Chiquita Canyon Landfill. August 31, 2023.

sample locations over a range of dates. Ambient air samples were collected at seven locations throughout the Community and background air samples were collected at two locations outside the Community (Figure 3 of the Report). The locations of the Community air samples were selected based on the areas with the most documented odor complaints, as well as data verification for samples collected by SCS. The locations of the background air samples were selected in areas outside the odor complaints. A full discussion of data collection is provided in the Report, to which this HHSE is appended.

Roux understands that CTEH is preparing a health evaluation based on SCS data collected during the same sampling period as Roux's investigation.

3. Human Health Screening Evaluation

The first objective of the HHSE is to provide a health protective evaluation of the potential risk from exposure to chemicals detected in the ambient air of the Communities.

3.1 Exposure Pathways and Media of Concern

Exposure pathways describe the course a chemical or physical agent takes from the source to the receptor (USEPA, 1989). Four components must be present for an exposure pathway to be complete:

- A primary source and mechanism of chemical release;
- A secondary source or transport medium (or media);
- A point of potential human contact with the contaminated medium (i.e., an exposure point); and
- An exposure route (e.g., ingestion, dermal contact, or inhalation).

Current residential scenarios were evaluated in the HHSE. Both chronic (long-term) and acute (short-term) exposure scenarios were evaluated in the HHSE to assist in risk-based decision making and accurately capture potential exposures experienced by the Community. As discussed below, points of potential current human contact evaluated in the HHSE are limited to ambient/outdoor air.

3.1.1 Ambient Air Pathway

There are concerns of potential exposure to VOCs and sulfur compounds to the Community via ambient/outdoor air. The outdoor area in the vicinity of residential buildings within the Community were sampled to evaluate the potential for a complete exposure pathway from offsite releases. Two background locations were also sampled for outdoor air as a comparison.

3.1.2 Exposure Pathway Analysis

The current use and future intended use of the evaluated properties in the Community is residential. Therefore, the conceptual site model (CSM) presented below illustrates potentially complete exposure pathways in the Community:

Primary Source	Secondary Source	Exposure Media	Exposure Route	Receptor
Potential Offsite Releases	Impacted Onsite Ambient/Outdoor Air	Ambient Air	Inhalation	Current residents

Other potential sources of chemicals in ambient air include vehicular exhaust, residential and commercial heating and cooling, and permitted industrial manufacturing air emissions. As ambient air is the exposure media of concern for emissions from Chiquita, dermal and oral pathways are not pertinent exposure routes (only inhalation). The HHSE was limited to an evaluation of current residents, future residential exposure was not evaluated. Risk from both acute and chronic exposures to ambient air are calculated to represent the range of potential exposure lengths.

3.2 Exposure Concentrations and Chemicals

All samples of ambient/outdoor air sampling data collected by Roux in October, November, and December of 2023 were utilized in this HHSE. A summary of data utilized in the screening evaluation is provided in Appendix D of the *Community Air Sampling and Health Risk Screening Evaluation Report* (to which this HHSE is attached).

Exposure point concentrations (EPCs), the representative concentration for each contaminant, were developed consistent with DTSC guidance. Duplicate samples were incorporated by taking the maximum value between the duplicate and original sample for that sampling location and sample date; this conservatively included non-detect values due to the issue of high reporting limits (discussed further below). Ambient/outdoor air EPCs were developed for the Community as follows:

- Acute: For acute exposure duration, the maximum concentration for each COPC with at least one detection was identified as the EPC for each location. Non-detect values were conservatively included when determining the maximum concentration because for almost all COPCs, depending on the sampling day, the reporting limit was higher than some of the detected values on other sampling days. Thus, due to the high reporting limits, some sampling days that were reported as non-detect values may actually have been detected if the reporting limit was lower for that sampling day.
- Chronic: For chronic exposure duration, the average concentration for each COPC for each location was identified as the EPC. Similar to the acute EPCs, non-detect values were conservatively included when determining the average concentration.

The COPCs in ambient/outdoor air across the Community include the analytes listed in the following table. The following COPCs were identified based on the compound being detected at any of the sampling locations over the course of the sampling period. EPCs were then generated for all of the following COPCs at each sampling location, regardless of if they were detected at that sampling location due to the issue of high reporting limits, as discussed above. EPCs for ambient/outdoor air are found in Table 1.

Ambient/Outdoor Air COPCs	
1,1,2-Trichloro-1,2,2-trifluoroethane	Dichlorodifluoromethane
1,1-Difluoroethane	Ethylbenzene
1,2-Dichloroethane	Tetrachloroethene
1,4-Dichlorobenzene	Toluene
Benzene	Total Xylenes
Carbon tetrachloride	trans-1,2-Dichloroethene
Chloroform	Trichlorofluoromethane

Continuous air monitoring was also performed during the sampling period. Laboratory analytical data are more reliable than continuous monitors, and therefore were used for the HHSE; however, continuous air monitoring data are discussed in detail in Section 4.3.

3.3 Human Health Screening Levels

To evaluate acute and chronic, current residential exposures, screening values for non-carcinogenic and carcinogenic effects were utilized in the HHSE as follows:

- Ambient Air – Acute:** The Agency for Toxic Substances and Disease Registry's (ATSDR) acute minimal risk levels (MRLs) (ATSDR, 2023a) were utilized for the ambient air evaluation; these MRLs represent an exposure of 1-14 days. If no value was provided by ATSDR, CA's Office of Environmental Health Hazard Assessment (OEHHA) Acute (1-hour) reference exposure levels (RELs) were utilized (OEHHA, 2023). OEHHA also provides 8-hour RELs for two of the COCs (Benzene and Toluene); however, a majority of the COCs do not have an 8-hour RELs so these were not utilized for the screening evaluation. ATSDR's MRLs and OEHHA's RELs were developed based off of non-cancer endpoints; by design and due to the nature of exposure, screening values are not developed for cancer endpoints for acute exposure durations.
- Ambient Air – Chronic:** DTSC's PEA Guidance (DTSC, 2015), DTSC HHRA Note 3 (DTSC, 2022a) values were utilized for the ambient air evaluation. If no value was provided in DTSC HHRA Note 3, USEPA November 2023 RSLs were utilized. If no value was provided in the DTSC HHRA Note 3 and the USEPA May 2023 RSLs, the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) direct-exposure health-risk-based Environmental Screening Levels (ESLs) were utilized. Chronic screening levels are developed for both cancer and non-cancer endpoints.

Notably, both sets of screening values are protective of indoor air exposures (exposure for 24-hours a day), while ambient air samples are representative of air outside of homes and not necessarily indoor air concentrations.

Acute screening values for residential exposure to ambient air are shown in the table below, the reference for each screening value is provided to distinguish between ATSDR and OEHHA values.

Ambient Air COPC	Acute Non-Cancer Screening Level	Screening Level Source
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	--
1,1-Difluoroethane	NS	--
1,2-Dichloroethane	1.21E+03	ATSDR, 2023a
1,4-Dichlorobenzene	1.20E+04	ATSDR, 2023a
Benzene	2.88E+01	ATSDR, 2023a
Carbon tetrachloride	1.90E+03	OEHHA, 2023
Chloroform	4.88E+02	ATSDR, 2023a
Dichlorodifluoromethane	NS	--
Ethylbenzene	2.17E+04	ATSDR, 2023a
Tetrachloroethene	4.07E+01	ATSDR, 2023a
Toluene	7.54E+03	ATSDR, 2023a
Total Xylenes	2.20E+04	OEHHA, 2023
trans-1,2-Dichloroethene	1.19E+04	ATSDR, 2023a
Trichlorofluoromethane	NS	--

- NS = no screening value available.
- Only compounds detected in ambient air across the Community are shown in the table above.
- The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening into Total Xylenes.
- Screening levels are shown in $\mu\text{g}/\text{m}^3$.
- Screening levels provided in parts per million (ppm) were converted to $\mu\text{g}/\text{m}^3$ using the COC's molecular weight and conversion equations (KSU, 2006).

Chronic screening values for residential exposure to ambient air are shown in the table below.

Ambient Air COPC	Chronic Cancer Screening Level	Chronic Non-Cancer Screening Level	Screening Level Source
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	5.20E+03	USEPA, 2023
1,1-Difluoroethane	NS	4.20E+04	USEPA, 2023
1,2-Dichloroethane	1.10E-01	7.30E+00	USEPA, 2023
1,4-Dichlorobenzene	2.60E-01	8.30E+02	USEPA, 2023
Benzene	9.70E-02	3.10E+00	DTSC, 2022
Carbon tetrachloride	4.70E-01	4.20E+01	DTSC, 2022
Chloroform	1.20E-01	1.00E+02	USEPA, 2023
Dichlorodifluoromethane	NS	1.00E+02	USEPA, 2023
Ethylbenzene	1.10E+00	1.00E+03	USEPA, 2023
Tetrachloroethene	4.60E-01	4.20E+01	DTSC, 2022
Toluene	NS	3.10E+02	DTSC, 2022
Total Xylenes	NS	1.00E+02	USEPA, 2023
trans-1,2-Dichloroethene	NS	8.30E+01	DTSC, 2022
Trichlorofluoromethane	NS	1.30E+03	DTSC, 2022

1. NS = no screening value available.
2. Only compounds detected in ambient air across the Community are shown in the table above.
3. The lab reported m,p-xylene and o-xylene separately. These isomers were combined for the purposes of this risk screening into Total Xylenes.
4. Screening levels are shown in $\mu\text{g}/\text{m}^3$.

3.4 Toxicity Values

The toxicity assessment describes the quantitative relationship between the extent of exposure to a contaminant and the increased likelihood and/or severity of adverse effects. This quantitative relationship generally takes the form of toxicity values that are identified for use in risk screening evaluations. Toxicity values are used to quantify the chance of observing cancer or non-cancer effects in exposed receptors. Toxicity values may be based on epidemiological (human) studies or animal studies.

DTSC's screening levels were calculated based on HHRA Note 10 values, USEPA RSLs (USEPA, 2023) were based on toxicity values described in the November 2023 RSL tables and the SFBRWQCB ESLs were calculated from the values shown in the 2019 ESL Workbook (SFBRWQCB, 2019).

OEHHA RELs were developed initially in 1999-2000 Technical Support Documents and more recently updated in 2008, outlined in Air Toxics Hot Spots Program Technical Support Document for the Derivation of Noncancer Reference Exposure Levels document. The revised methodology incorporates scientific knowledge and techniques that include consideration of possible effects on the health of infants, children, and other sensitive subpopulations (OEHHA, 2008). OEHHA acute, 8-hour, and chronic RELs are specific to target organs (e.g., respiratory system or eyes) and are based on human and animal studies (e.g., hamster, mouse, monkey, rat, etc.).

Finally, the ATSDR list of acute MRLs is compiled from individual toxicological profiles that include an examination, summary, and interpretation of available toxicological information and epidemiological studies of each substance; MRLs in draft toxicological profiles are considered provisional (ATSDR, 2023a).

3.4.1 Toxicity Information for Non-Carcinogenic Effects

In assessing the potential for non-cancer health effects, USEPA assumes there is a toxicological threshold below which no adverse health effects are observable (USEPA, 1993). These toxicological thresholds are represented by reference doses (RfDs) for oral exposures and reference concentrations (RfCs) for inhalation exposures. The RfDs and RfCs are estimates (with uncertainty spanning, in some cases, an order of magnitude) of daily exposures to the human population (including sensitive subgroups) that are likely to be without an appreciable risk of deleterious effects during a lifetime. USEPA derives RfDs and RfCs using a standardized approach, considering available information from human and animal studies, which establish the levels below which toxicological effects are not observed and the uncertainties inherent in the available information (USEPA, 1993).

3.4.2 Toxicity Information for Carcinogenic Effects

USEPA uses a two-part evaluation in assessing potentially carcinogenic substances. In the first part, a chemical is assigned a weight-of-evidence classification, which reflects USEPA's assessment of the likelihood that the chemical is a human carcinogen. For chemicals that are classified as possible, probable, or known human carcinogens, USEPA calculates a cancer slope factor (CSF) for oral exposures and an inhalation unit risk (IUR) for inhalation exposures when sufficient information is available to support the calculation. USEPA guidance indicates that a linear, no-threshold dose-response model is appropriate for carcinogenic risk assessment (USEPA, 2005a). An extremely low level of exposure to a carcinogen may result in chromosomal or enzyme changes leading to cancer. Therefore, USEPA does not generally estimate thresholds for carcinogens. CSFs or IURs are used to estimate the probability of a cancer effect occurring in a receptor exposed over their lifetime.

3.5. Risk Characterization Summary

The risk characterization process integrates the results of the data evaluation, exposure assessment, and toxicity assessment to provide a quantitative estimation of cumulative non-carcinogenic hazard and carcinogenic risk for residential exposure for each residential property in the Community. A cumulative risk calculation represents the cumulative cancer and cumulative non-cancer impact that the subject site has on a particular receptor, and accounts for exposures that a receptor could receive from multiple chemicals and exposure pathways.

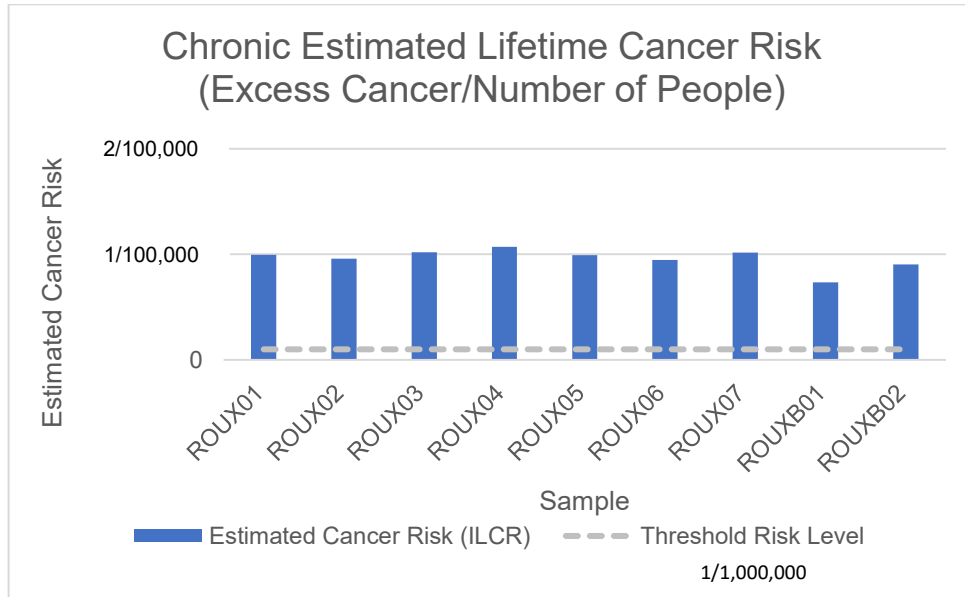
The measure used to describe the potential for noncarcinogenic health effects is the Hazard Index (HI). An HI is the ratio of a receptor's exposure level (or dose) to the "acceptable" (or allowable) exposure level (i.e., the reference dose or concentration). An HI of 1 or less indicates that the receptor's exposure is equal to or less than the allowable exposure level, and that it is unlikely that adverse health effects will occur. An HI greater than 1 indicates that the receptor's exposure is greater than the allowable exposure level, and that adverse health effects may occur.

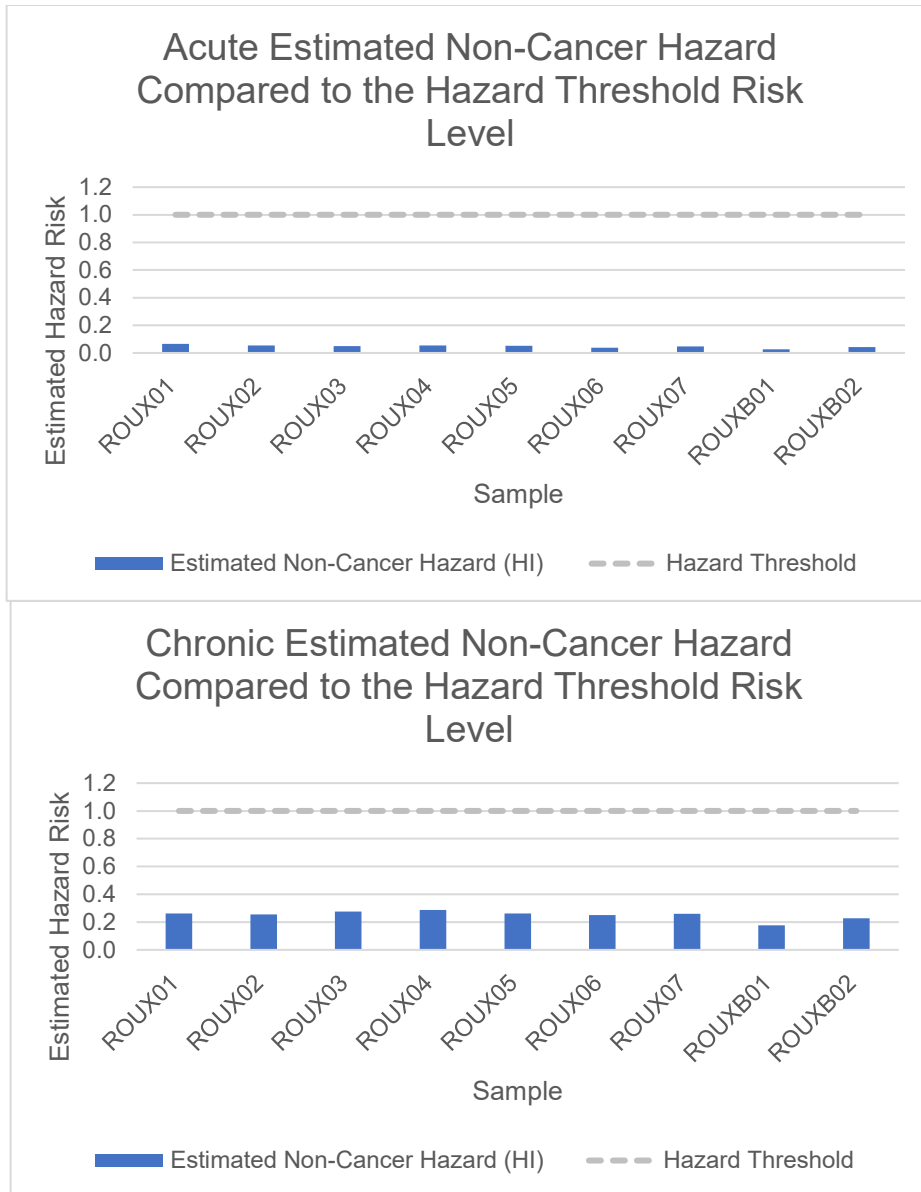
The potential for cancer effects is characterized as the Incremental Lifetime Cancer Risk (ILCR). The ILCR represents the incremental probability of an individual developing cancer over a lifetime as a result of exposure to the potential carcinogen. For a given chemical, the ILCR is the product of the receptor's quantified exposure and the carcinogenic potency of the chemical. For residential receptors, an ILCR greater than 1E-06 (1 in 1,000,000) is considered to represent unacceptable cancer risk levels.

The quantitative estimation of cumulative non-carcinogenic hazard and carcinogenic risk for residential, acute and chronic exposure to ambient air for each residential property in the Community is summarized

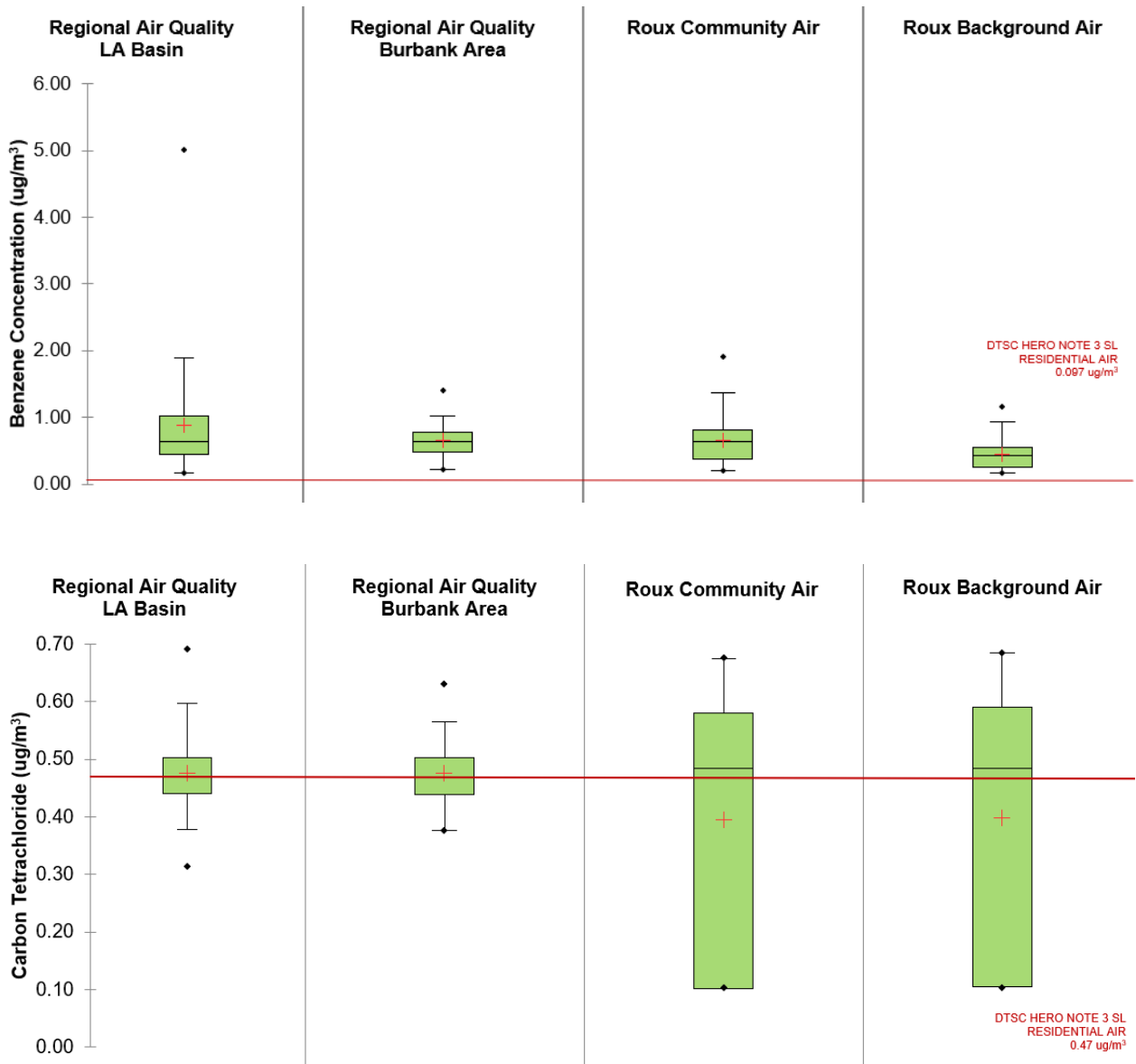
below and in Table 4. The chronic estimated lifetime cancer risk, chronic estimated non-cancer risk, and acute estimated non-cancer risk by COC is presented in Tables 5a-c.

Ambient Air Community Wide Cumulative Cancer Risks and Non-Cancer Hazard Summary

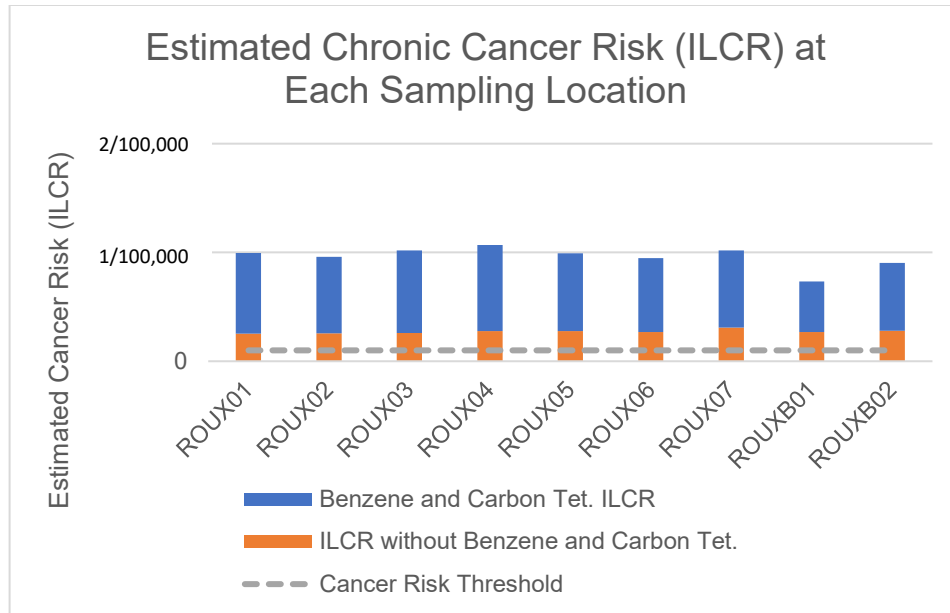




As seen above, the non-cancer risk estimates do not exceed the threshold of 1; however, the chronic, cancer risk estimates (ILCRs) do exceed the residential level of 1E-06 at all sampling locations (including background locations). The primary driver for cancer risk was determined to be benzene. Benzene is a common contaminant associated with vehicle exhaust; due to the consistently elevated levels of benzene throughout the sampling timeframe and at every sampling location (including the two background locations), it is expected that the benzene contributions are from general traffic congestion and vehicle exhaust typical in LA county, rather than attributable to Chiquita (see further discussion in the Report). Carbon tetrachloride was also determined to be attributable to background sources. The figure below, which is also presented in the Report, illustrates that benzene and carbon tetrachloride concentrations do not differ significantly from regional air quality:



Benzene and carbon tetrachloride-specific risk estimates (in blue) and cumulative risk estimates without benzene and carbon tetrachloride (in orange) are included below:



Following the removal of benzene and carbon tetrachloride, the chronic ILCRs are still slightly elevated across all locations (i.e., above 1E-06); however, due to the highly health protective nature of the chronic risk estimates it is not expected for the Community to experience unacceptable risk levels following exposures to VOCs attributable to Chiquita. More specifically, the above estimates assume that members of the Community are breathing ambient air for 24 hours a day, when in reality, the majority of Community members spend time inside their own homes, or commute to work or school. In addition, the above estimates assume exposure to emissions from Chiquita are reflective of ETLF conditions for the entirety of a 70-year lifetime, when in reality, potential elevated emissions from Chiquita related to the ETLF have been occurring for a few months. Additionally, risk estimates for the background locations (ROUXB01 and ROUXB02) are comparable to risk estimates for the Community sampling locations (see discussion in the Report).

3.6 Compounds Requiring Special Handling

As described in **Section 2.1**, the nuisance odor complaints have been largely attributed to dimethyl sulfide (DMS). Although dimethyl sulfide was not detected above laboratory reporting limits, given low odor thresholds and odors observed in the Communities, it is likely this compound is present in the ambient air surrounding the landfill. There are no OEHHA, USEPA, ATSDR, or SFBRWQCB chronic or acute screening values for this compound. Roux therefore evaluated this compound using additional sources of comparison values. Therefore, DMS was evaluated separately.

Some animal studies suggest DMS is an irritant after observing signs of eyes and nose irritation; however, there is currently a lack of reliable scientific evidence documenting potential symptoms (USEPA, 2005b).

AIHA publishes Emergency Response Planning Guidelines (ERPGs). The most health protective ERPG is the ERPG Tier 1, which represents the “the maximum airborne concentration below which nearly all individuals could be exposed for up to 1 h without experiencing or developing” discomfort or mild transient health effects. These values are developed to assist in emergency response efforts. The Tier 1 ERPG for DMS is 500 ppb. To derive the Tier 1 ERPG, AIHA relied on an olfactory study in humans (Katz and Talbert, 1930) with the critical effect being risk of nausea due to odor. Katz and Talbert (1930) and the basis for the AIHA derivation is described in detail in Demchuk et al. (2018).

Although dimethyl sulfide was not detected in any grab samples, the highest reporting limit was 0.045 ppm (or 45 ppb). Therefore, the grab samples do not demonstrate any exceedance of the Tier 1 ERPG for dimethyl sulfide, and any potential dimethyl sulfide concentrations are not expected to result in mild or transient health effects. The Tier 1 ERPG is a standard for a one-hour exposure and therefore is the most relevant comparison for the sulfur grab samples.

Although the lack of detectable concentrations of dimethyl sulfide is an area of uncertainty in this evaluation, the reporting limits for dimethyl sulfide are sufficient to demonstrate that the Tier 1 ERPG for one-hour exposure was not exceeded and that other various derived threshold values for 10-minute to 24-hour exposures were not exceeded. Any concentrations of dimethyl sulfide that may have been present at undetectable concentrations were not likely to have resulted in even mild or transient adverse health effects (e.g. nausea) although DMS may have caused unpleasant odors.

3.7 Uncertainty

Risk and hazard estimates from this screening evaluation do not represent absolute estimates at a specific residential property because environmental regulators use health protective generic exposure assumptions (number of days exposed per year [350 days per year], number of hours spent at home [24 hours per day] and total time of exposure for averaging purposes [26 years, for non-cancer calculations, and 70 years for cancer calculations]) for residential land use in the development of screening values. The numerical estimates in the HHSE have uncertainties reflecting inherent limitations in characterizing residential conditions and exposure assumptions. Overall, ILCRs and HIs presented in the HHSE are based upon conservative assumptions that are intended to be protective of human health by likely overestimating exposure to account for parameter uncertainty (RME exposure scenario). Therefore, the results presented in this HHSE are health protective and biased high.

Not all chemicals measured by the laboratory have associated health risk screening levels:

- No acute screening levels were provided in ATSDR's MRLs (2023) or OEHHA's acute, 1-hour RELs for 1,1,2-trichloro-1,2,2-trifluoroethane, 1,1-difluoroethane, dichlorodifluoromethane, or trichlorofluoromethane. Therefore, these compounds were not quantitatively evaluated in the HHSE for acute exposure duration.
 - These omissions are considered areas of uncertainty in the HHSE; however, given adoption of numerous health protective assumptions, this uncertainty is not considered to impact conclusions of the HHSE.
- Similarly, no chronic cancer screening levels or toxicity values were provided in DTSC HHRA Note 3, DTSC HHRA Note 10, USEPA 2023 RSLs or SFBRWQCB ESLs for 1,1,2-trichloro-1,2,2-trifluoroethane, 1,1-difluoroethane, dichlorodifluoromethane, total xylenes, toluene, trans-1,2-dichloroethene, or trichlorofluoromethane. Therefore, these compounds were not quantitatively evaluated in the HHSE for chronic cancer risk. The lack of a cancer screening level could indicate that a compound has been identified as non-carcinogenic (and thus, would not contribute to cancer risk), or could indicate a lack of scientific information needed to derive appropriate toxicity values and corresponding screening levels.

- However, as noted above, given the adoption of numerous health protective assumptions, this uncertainty is not considered to impact conclusions herein. Additionally, chronic, non-cancer screening levels were available for all COCs in the HHSE, such that non-cancer risk could be quantitatively evaluated considering all detected COCs.

Sulfur compound measurements varied:

- Although all sulfur compounds were not detected above laboratory reporting limits, laboratory reporting limits were elevated for hydrogen sulfide relative to chronic and acute OEHHA RELs. For example, the OEHHA acute one-hour REL for hydrogen sulfide (H₂S) is 0.03 ppm and the OEHHA chronic REL is 0.007 ppm for H₂S (OEHHA, 2023); however, reporting limits varied between 0.025 ppm and 0.045 ppm for H₂S. Additionally, many sulfur compounds lacked acute and chronic screening values to adequately assess the sufficiency of reporting limits. For example, although dimethyl sulfide was not detected above reporting limits in analytical samples, there are no OEHHA, USEPA, ATSDR, or SFBRWQCB chronic or acute screening values for this compound.
- Sulfur compounds are not anticipated to increase cancer risk. Instead, these compounds are known to cause non-cancer health effects, and symptoms as follows:
 - Hydrogen sulfide: A reference concentration (RfC) value of 0.002 mg/m³ has been established by USEPA (USEPA, 2003). This RfC was derived following the results of rodent experiments that demonstrated the critical effect was nasal lesions of the olfactory mucosa. In general, H₂S is identified as an irritant to the eyes, nose, or throat, and primarily targets the neurological and respiratory systems. Exposure to low concentrations of H₂S may cause headaches, poor memory, tiredness, and balance problems (ATSDR, 2016a).
 - Dimethyl sulfide: Uncertainty regarding dimethyl sulfide is addressed in Section 3.6.

Health risk was assumed to result from exposure to ambient air quality 100% of the time:

- In fact, people spend about 70% of their time in their homes;³ therefore, risk estimates based on ambient air measurements may not represent risk from exposures experienced indoors. The building envelope is expected to attenuate ambient concentrations to some extent; therefore, risk from landfill-related contaminants is expected to be less than presented herein.

The use of maximum concentration for acute exposure and average for chronic exposure is very conservative and is expected to greatly overestimate risk.

- Use of maximum concentrations (as described in Section 3.2 of the report) as acute exposure EPCs for ambient/outdoor air within each residential property is not realistic. At many locations, the same COCs were not consistently detected day-to-day. In addition, many of the maximum concentrations were high non-detect values due to the high reporting limit on some sampling days; thus, the EPCs are likely very conservative and overestimate potential risk.
- Additionally, the average concentrations utilized for the chronic EPCs also include high non-detect values; for almost all COCs, the non-detect values were higher than many of the detections due to high reporting limits on certain sampling days. Thus, chronic risk estimates are likely very

³ USEPA, 2011. Chapter 16.

conservative due to the non-detects biasing the averages higher than if just the detections had been utilized.

Wind direction during the sampling period in 2023 was different than typical wind patterns throughout the rest of the year:

- Weather patterns in Castaic, California, during the Roux sampling period (i.e., October – December) are notably different from the rest of the year (see Report). Winds from January 1 through October 30, 2023, were typical of overall yearly wind patterns (see Report).
- However, winds from October 31st through December 16th, 2023, (i.e., during the Roux sampling period) were notably different from the overall wind patterns and the wind patterns from January through October. Winds in November through December are calmer than during the rest of the year and more likely to be out of the North, Northwest, and West. Generally, higher winds promote air dispersion, and therefore lower concentrations, but do allow contaminants to travel farther downwind. Therefore, the Roux sampling period may not reflect conditions that residents experienced earlier in the year (see Report).

Landfill operations addressing recent odor issues have changed over time:

- Not only have weather conditions changed in the time in between the influx of complaints over the summer and the Roux sampling period, but operations and controls at the landfill have changed, as detailed in the Report. Thus, due to the purposeful changes in operations, current landfill emission may be different than earlier in 2023 and are expected to improve in the future.

4 Odor Assessment

The second objective of the HHSE is to investigate Community concerns about odors emitted from Chiquita. The HHSE assessed the magnitude of odors emitted from Chiquita during the Roux sampling event timeframe (October, November, and December of 2023), using Roux's analytical samples.

4.1 Odor Thresholds

To evaluate odor thresholds, and odor nuisance levels, the following screening values were utilized for the sulfur compounds:

Ambient Air COPC	Odor Detection Threshold ²	Odor Nuisance ²	CARB Ambient Air Quality Standard ³
Carbon disulfide	1.60E-02	8.00E-02	NS
Carbonyl sulfide	5.70E-02	2.85E-01	NS
Dimethyl disulfide	2.90E-04	1.45E-03	NS
Dimethyl sulfide	1.20E-04	6.00E-04	NS
Ethyl mercaptan	8.70E-06	4.35E-05	NS
Hydrogen sulfide	4.00E-05	2.00E-04	3.00E-02
i-Butyl mercaptan	2.70E-06	1.35E-05	NS
i-Propyl mercaptan	1.30E-05	6.50E-05	NS
Methyl mercaptan	5.10E-13	2.55E-12	NS
n-Propyl mercaptan	1.30E-05	6.50E-05	NS
s-Butyl mercaptan	2.70E-06	1.35E-05	NS
t-Butyl mercaptan	2.70E-06	1.35E-05	NS
Tetrahydrothiophene	3.88E-05	1.94E-04	NS
Unidentified sulfurs	5.10E-13	2.55E-12	NS

1. NS = no odor detection threshold or nuisance level available
2. Odor Detection Thresholds are the minimum value from Table 6.1, Range of Odor Values (ppm), from AIHA, 3rd Edition (2019). Odor Nuisance levels are the Odor Detection threshold multiplied by five, per the South Coast Air Quality Management District (SCAQMD) Handbook (1993).
3. CARB Ambient Air Quality Standard for Hydrogen Sulfide, 1969.
4. Odor thresholds and levels are shown in ppm.
5. The lowest sulfur compound odor threshold level (for methyl mercaptan) was utilized as a proxy screening level for "Unidentified sulfurs."
6. The odor threshold for i-Butyl mercaptan was used as a proxy odor threshold for s- and t-Butyl mercaptan.
7. The odor threshold for n-Propyl mercaptan was used as a proxy odor threshold for i-Propyl mercaptan.

The following screening values were utilized for the VOC compounds detected during the Roux sampling event:

Ambient Air COPC	Odor Detection Threshold ²	Odor Nuisance ²	ESL Odor Nuisance ³
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS
1,1-Difluoroethane	NS	NS	NS
1,2-Dichloroethane	1.74E+04	8.70E+04	2.42E+03

Ambient Air COPC	Odor Detection Threshold ²	Odor Nuisance ²	ESL Odor Nuisance ³
1,4-Dichlorobenzene	7.27E+02	3.64E+03	1.10E+03
Benzene	1.50E+03	7.51E+03	4.89E+03
Carbon tetrachloride	1.06E+04	5.28E+04	6.30E+04
Chloroform	4.98E+02	2.49E+03	4.22E+05
Dichlorodifluoromethane	9.88E+08	4.94E+09	NS
Ethylbenzene	8.68E+00	4.34E+01	2.00E+03
Tetrachloroethene	5.20E+03	2.60E+04	3.17E+04
Toluene	9.80E+01	4.90E+02	3.00E+04
Total Xylenes	5.21E+01	2.61E+02	NS
trans-1,2-Dichloroethene	1.10E+06	5.49E+06	6.73E+04
Trichlorofluoromethane	2.81E+04	1.40E+05	NS

1. NS = no odor detection threshold or nuisance level available
2. Odor Detection Thresholds are the minimum value from Table 6.1, Range of Odor Values (ppm), from AIHA, 3rd Edition (2019). Odor Nuisance levels are the Odor Detection threshold multiplied by five, per the South Coast Air Quality Management District (SCAQMD) Handbook (1993).
3. SFBRWQCB ESLs (2019)
4. Odor thresholds and levels for VOCs are shown in $\mu\text{g}/\text{m}^3$.

4.2 Odor Assessment

The American Industrial Hygiene Association (AIHA) publishes a handbook of “Odor Thresholds for Chemical with Established Occupational Health Standards” (AIHA, 2019). Generally, “a reported odor threshold is a concentration of odorant expected to be either detected or recognized by 50% of people with normal olfactory function” (AIHA, 2019). Because some individuals may be particularly sensitized to certain odorants, using the 50% detect rule as the threshold definition is important and is a way to standardize odor detection thresholds estimated from different testing subjects and protocols.

In the odor detection threshold literature, many of the odorants have ranges that span multiple orders of magnitude, depending on the study. A single odorant can be evaluated by directly comparing its concentration to its detection threshold. Odorant concentrations are often standardized by using dilution-to-threshold (D/T) values (NJDEP, 2021; Choker, 2013). A D/T value represents the number of air dilutions required for an air sample to reach its odor detection threshold and is calculated as follows:

$$D/T = \frac{\text{concentration}}{\text{odor detection threshold}}$$

At a D/T value of 1, the concentration is equal to the odor detection threshold, and any given individual will have about a 50% chance of detecting the compound (NJDEP, 2021). Using D/T values allows scientists to standardize across different compounds. As an example, Compound A and Compound B might have different odor detection thresholds based on concentration, and therefore each concentration might have different meanings without the context of their odor detection thresholds. But, in the context of odor detection, a D/T value of 1 for Compound A means the same thing as a D/T value of 1 for Compound B. The probability of an individual detecting an odorant at its odor detection threshold (i.e., at a D/T value of 1) is 50%, and the probability of an individual detecting an odorant at a concentration below its odor detection threshold is less than 50% but greater than 0%.

Evaluating mixtures of compounds is more complicated. Because individuals may be more sensitive to some odorants more than others (AIHA, 2019), the probability of detecting any one odorant in a mixture of subthreshold odorants increases as the number of subthreshold odorants increases (Cometto-Muñiz, et al., 2005). As an example, if Compound A and B are at concentrations below their respective thresholds and an individual has a 25% chance of detecting Compound A and a 25% chance of detecting Compound B, the probability that that individual detects Compound A *or* Compound B is $(1-0.25) \times (1-0.25) = 56\%$. While the individual is unlikely to detect any one of the compounds, they are more likely to detect either one of the compounds than not. This concept is known as independence of detection and is generally recommended for mixtures of odorants at relatively low concentrations (Cometto-Muñiz, et al., 2003; 2004). This means that mixtures of odorants need to be assessed cumulatively and that it is not appropriate to simply compare each odorant with its respective threshold. A common way to assess a mixture of odorants is to sum the D/T values for each of the individual odorants (NJDEP, 2019; Invernizzia et al., 2020). For example, if the D/T value for Compound A is 0.5, and the D/T value for Compound B is 0.7, the cumulative D/T value is 1.2, indicating that an individual has a greater than 50% chance of detecting Compound A and/or B.

Exceedance of a D/T value of 1 does not guarantee that any one individual would detect the odorant or odorant mixture. Additionally, detection of an odor by an individual does not mean that community standards have been exceeded. Generally, community standards are determined by the intensity, duration, and character of the odor. Odor intensity is assessed from the magnitude of the D/T value. Community standards vary by state and city (RWDI AIR, 2005). ATSDR's community odor investigation guidance recommends a nuisance threshold of 7 to 15 D/T, depending on land use (ATSDR, 2016b). The South Coast Air Quality Management District (SCAQMD) Handbook (1993) utilizes a D/T value of 5 for determining a nuisance. The San Francisco Bay Regional Water Quality Control Board ESLs (2019) also list "Final Odor Nuisance Screening Levels," but for volatile chemicals only.

Additionally, short-term spikes in odorant concentrations do not necessarily constitute an exceedance of a community standard. Generally, odor detection thresholds are assessed based on 5-minute averages (NJDEP, 2021), meaning that community standard exceedances shorter than this timeframe would not necessarily constitute a violation of a community standard from a technical standpoint.

Over the duration of the study, no VOCs exceeded their odor detection thresholds or their ESL nuisance thresholds (AIHA, 2019; SFBRWQCB, 2019), and no sulfur compounds were detected. Additionally, among detected VOC compounds, no sample exceeded a cumulative D/T of 1, as seen in the below table.

Sample Name	Number of Samples	Minimum D/T	Median D/T	Maximum D/T
ROUX01	27	0	0.02	0.05
ROUX02	26	0	0.03	0.10
ROUX03	25	0	0.05	0.11
ROUX04	27	0	0.04	0.12
ROUX05	27	0	0.05	0.15
ROUX06	27	0	0.04	0.09
ROUX07	27	0	0.04	0.24
ROUXB01	27	0	0.02	0.06
ROUXB02	27	0	0.02	0.08

The maximum D/T value for detected compounds was 0.24 (sample ROUX07 on November 14, 2023). As this value is below 1, this level of odorant mixture would be unlikely to be detected by a human nose. Because

odor detection thresholds represent the concentration at which 50% of the population can detect an odor, it is possible, although unlikely, that a field observer would be able to detect an odorant mixture with a D/T value of 0.24. However, it is unlikely that this odorant mixture would be described as having a strong odor.

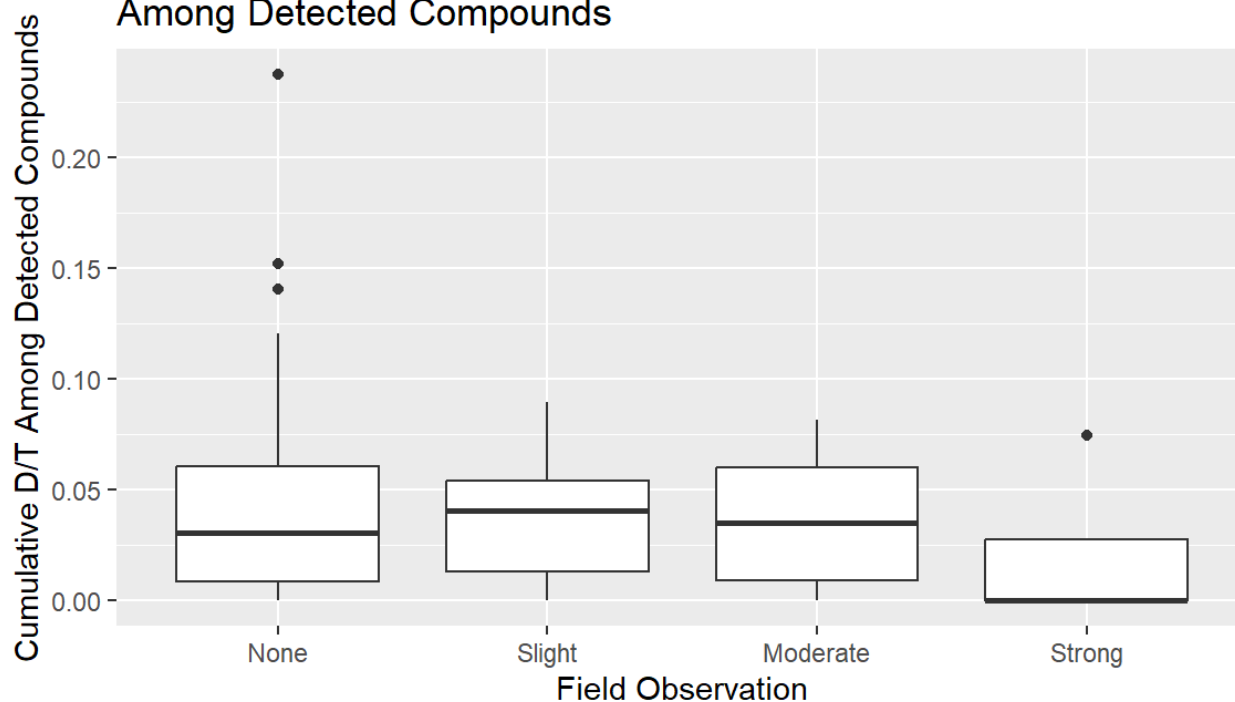
In juxtaposition to the analysis above, Roux field staff detected odors when collecting VOC and sulfur samples and observed odors with the frequencies shown in the below table.

Sample Name	Number of Odor Observations	No Odor Observed	Slight Odor Observed	Moderate Odor Observed	Strong Odor Observed	Any Odor Observed
ROUX01	42	36	1	1	4	6
ROUX02	42	36	2	2	2	6
ROUX03	42	37	1	2	2	5
ROUX04	42	38	3	0	1	4
ROUX05	42	35	2	4	1	7
ROUX06	42	38	4	0	0	4
ROUX07	42	42	0	0	0	0
ROUXB01	42	20	10	10	2	22
ROUXB02	42	40	1	1	0	2

ROUXB01 had the highest frequency of any odor detection, and the highest frequency of slight and moderate odors. Although odor observations at a “background” location is counterintuitive, the wind rose for the sampling period suggests that the placement of the background sampling locations (i.e., north of the landfill) was appropriate. ROUX01 had the highest frequency of a strong detected odor.

As seen in the figure below, there was no association between odor observations and D/T values of detected VOC compounds. This finding is not surprising, given that the D/T values of detected VOC compounds were all lower than 1.

Field Odor Observations and Odor Concentrations Among Detected Compounds



These results emphasize that the odors observed in the field are not due to detected VOC compounds from laboratory analysis. Similarly, there is minimal alignment between detected VOC concentrations and Community complaints.

The lack of analytical detections of sulfur compounds does not exclude those chemicals from being the source of the odor observations. The laboratory detection limits for dimethyl disulfide, dimethyl sulfide, ethyl mercaptan, hydrogen sulfide, i-butyl mercaptan, i-propyl mercaptan, methyl mercaptan, n-propyl mercaptan, s-butyl mercaptan, t-butyl mercaptan, and tetrahydrothiophene were more than five times greater than their respective odor detection thresholds, indicating that a nuisance odor (i.e., an odorant at a concentration of 5 D/T) may be present but not be able to be detected via laboratory methods for these compounds. In some cases, the laboratory detection limits were several orders of magnitude above the odor detection threshold and the nuisance threshold of 5 D/T for these compounds. On the other hand, laboratory detection limits for carbon disulfide and carbonyl sulfide were greater than their odor detection thresholds, but by less than a factor of five, indicating that laboratory methods are able to detect nuisance levels of these compounds.

Thus, it is Roux's opinion that laboratory analysis of the sulfur compounds does not sufficiently capture the magnitude of potential odor issues. For example, if just hydrogen sulfide was present at the average reporting limit, D/T values would far exceed 1 at all sampling locations (using odor detection threshold of 4.00E-05 ppm):

Sample Name	Hydrogen Sulfide Average Reporting Limit (ppm)	D/T
ROUX01	0.030	760.0
ROUX02	0.031	769.4
ROUX03	0.033	816.7
ROUX04	0.032	802.8
ROUX05	0.031	769.4

Sample Name	Hydrogen Sulfide Average Reporting Limit (ppm)	D/T
ROUX06	0.031	769.4
ROUX07	0.030	761.1
ROUXB01	0.033	822.7
ROUXB02	0.030	740.4

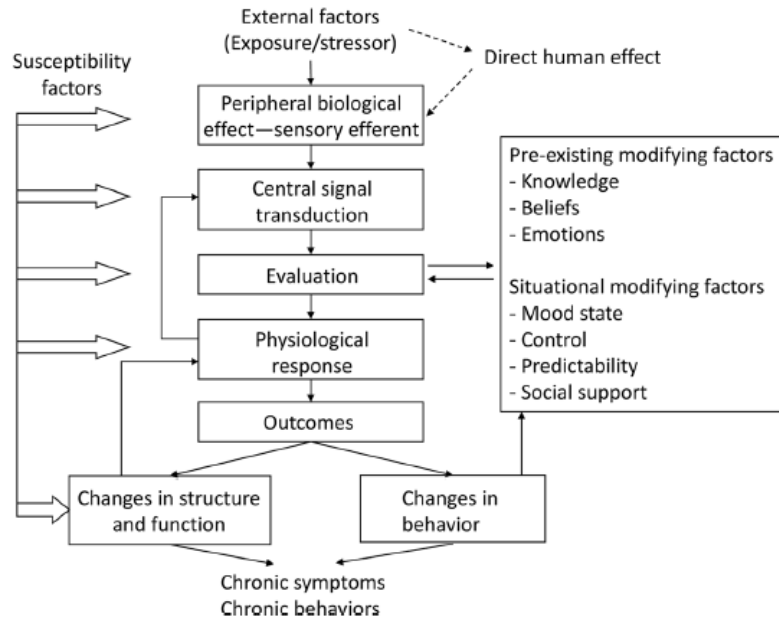
The minimum odor detection threshold for hydrogen sulfide is 4.00E-05 ppm, while the maximum odor detection threshold is 1.4 ppm; there is a wide range depending on a person’s sensitivity to odors for detection of hydrogen sulfide (AIHA, 2019).

The lack of concordance between odor observations and VOC analytical detections suggests that on days where odors are observed in the Communities, these odors are not attributable or correlated with VOCs (which as discussed in Section 3, drive risk for the Communities). Instead, odors are very likely attributable to sulfur compounds with very low odor thresholds (incapable of being detected by laboratory analysis). It is Roux’s opinion that laboratory analysis of the sulfur compounds does not sufficiently capture the magnitude of potential odor issues. While these compounds may not be driving risk from a toxicological standpoint (as previously described, there are very few sulfur compounds with acute or chronic screening values), as discussed in the section below, there are potential adverse health effects associated with exposure to odorous compounds.

4.3 Health Impacts of Odors

Unpleasant nuisance odors are capable of impairing mood, and impacting physical health, even when exposure levels to chemical odorants are not toxic. A variety of investigations have documented symptoms indicative of stress following exposure to odors below levels that cause broad toxicity.

Importantly, some of these responses may be attributable to the neurological processing of sensory information following exposure to low levels of odorous or pungent substances—not the effects of toxicity. Certain individuals are more susceptible to experiencing physical responses related to odors, especially if those odors are perceived as being attributable to an unpleasant source such as a landfill (Azuma et al., 2019). Even odors that are not offensive (such as odors of cleaners, “new car” smell and perfumes) are associated with general symptoms such as headache or unusual tiredness (Azuma et al., 2019). The onset of symptoms is a complicated interplay between external factors (exposure), susceptibility, pre-existing factors (such as emotions) and situational modifying factors (such as mood and control). These interrelationships are illustrated in the figure below.



Interrelationship of factors influencing odor symptoms
(Reproduced from Kipen and Fiedler)⁴

Various neurological response mechanisms have been explored by multiple investigators (Dantoft et al., 2015, Millqvist et al., 2005, Orriols et al. 2009, Claeson et al. 2017, and others), though no definitive mechanism for onset of symptoms related to odor responses has been elucidated. However, the development of symptoms following exposure to odorants below toxic levels has been well documented; symptoms vary based on sensitivity to odor, how long exposure lasts, age, state of health and susceptibility (young children, pregnant women, elderly). ASTDR notes the most common symptoms following exposure to odorants include headaches, nasal congestion, eye, nose and throat irritation, hoarseness/sore throat, cough, chest tightness, shortness of breath, wheezing, heart palpitations, nausea, drowsiness and mental depression (ATSDR, 2023b).

⁴ Azuma et al. 2019.

5 Continuous Air Monitoring

Although not as reliable as laboratory analytical sampling, Roux also evaluated available continuous air monitoring that was collected in the Communities during the sampling period. Specifically, Roux evaluated the 2023 real-time H₂S data as discussed in the Report. H₂S data were evaluated in the HHSE in two ways:

1. Human Health Screening Evaluation: As discussed in the Report, H₂S continuous air monitoring performed by SCS reports exceedances of OEHHA acute and chronic health-based standards. However, these exceedances are not replicated in more reliable laboratory analytical analysis performed by SCS and Roux on concurrent sampling dates. Thus, Roux's risk estimates presented in Section 3 are appropriately based on laboratory analytical data, which is considered more reliable than continuous monitoring data.
2. Odor Evaluation: As discussed in the Report, H₂S continuous air monitoring performed by SCS reports exceedances of pertinent odor thresholds. Due to elevated reporting limits of analytical data not detecting sulfur compounds present below the reporting limit, yet above the odor threshold, the observation of continuous air monitoring data consistently above the odor threshold comports well with both Community complaints, and observations by Roux staff conducting sampling. Thus, though not as reliable as analytical data, the sensitivity of the real time air monitoring for H₂S is helpful for explaining odor issues apparent in the Communities.

Despite the findings above, as discussed in the Report, there are potential issues with the quantitative reliability of the real-time air monitoring data. Spatial and temporal trends suggest some potential discrepancies in real-time air monitoring data that warrant additional attention.

6 Conclusions and Recommendations

The HHSE accomplished its two primary objectives:

1. The first objective of the HHSE is to provide a health protective evaluation of the potential risk from exposure to chemicals detected in the ambient air of the Communities pursuant to the California Department of Toxic Substance Control (DTSC) *Preliminary Endangerment Assessment Guidance Manual* (PEA Guidance; DTSC, 2015), and other pertinent guidance.
2. The second objective of the HHSE is to investigate Community concerns about odors emitted from Chiquita. The HHSE also assessed the magnitude of odors emitted from Chiquita.

The results of the evaluation indicate that when using very health protective estimates of exposure the chronic excess cancer risk exceeds the risk threshold of one per one-million people, but that the risk is not associated specifically with Chiquita Canyon Landfill emissions. Instead, the risk appears related to more general ambient air quality issues in the region. Non-cancer acute and non-cancer chronic risk thresholds were not exceeded.

While the odor issues experienced in the community surrounding the Chiquita Canyon Landfill cannot be explained by the detected VOCs, it is reasonable to conclude that the odors are associated with the sulfur compounds in the ambient air. While there are no detectable cancer or non-cancer risk exceedances of the sulfur compounds in ambient air via laboratory analysis, the concentrations of sulfur compounds in air below the reporting limits of this study are above odor thresholds. Thus, sulfur compounds could account for persistent odors and symptoms in the Communities (especially when they are unpleasant), and are known to cause respiratory, neurological and inflammatory symptoms.

It is well-established that odorants can result in health impacts in the exposed populations. Development of symptoms following exposure to odorants can vary based on sensitivity to odor, how long exposure lasts, age, state of health and susceptibility (young children, pregnant women, elderly). The most common symptoms following exposure to odorants include headaches, nasal congestion, eye, nose and throat irritation, hoarseness/sore throat, cough, chest tightness, shortness of breath, wheezing, heart palpitations, nausea, drowsiness and mental depression (ATSDR, 2023b).

Roux's recommendations to continue to monitor the Site and ensure the Communities are not exposed to unacceptable levels of compounds emanating from Chiquita is provided in the Report.

7 References

- AIHA, 2019. Odor Thresholds for Chemicals with Established Occupational Health Standards. 3rd Edition.
- ATSDR, 2016a. Hydrogen Sulfide – ToxFAQs. CAS# 7783-06-4. December. Accessed at: <https://www.atsdr.cdc.gov/toxfaqs/tfacts114.pdf>.
- ATSDR, 2016b. Community Member Assessment of Environmental Odors. September 13. Accessed at https://www.atsdr.cdc.gov/odors/docs/Community_member_assessment_of_environmental_odors_factsheet_508.pdf.
- ATSDR, 2023a. Minimal Risk Levels (MRLs) for Hazardous Substances. January. Accessed at: <https://wwwn.cdc.gov/TSP/MRLS/mrlsListing.aspx>.
- ATSDR, 2023b. Environmental Odors. Frequently Asked Questions (FAQs). Accessed at: <https://www.atsdr.cdc.gov/odors/faqs.html#:~:text=What%20symptoms%20can%20I%20expect%3F%201%20Headaches%202,7%20Shortness%20of%20breath%208%20Wheezing%20More%20items>
- Azuma, K. et al., 2019. Chemical intolerance: involvement of brain function and networks after exposure to extrinsic stimuli perceived as hazardous. *Environmental Health and Preventative Medicine*. 24:61. <https://doi.org/10.1186/s12199-019-0816-6>
- Dantoft TM, Skovbjerg S, Andersson L, Claeson AS, Lind N, Nordin S, Brix S. Inflammatory mediator profiling of n-butanol exposed upper airways in individuals with multiple chemical sensitivity. *PLoS One*. 2015;10(11): e0143534. <https://doi.org/10.1371/journal.pone.0143534>.
- CARB, 1969. Ambient Air Quality Standard for Hydrogen Sulfide, 1969. Accessed at: <https://ww2.arb.ca.gov/resources/hydrogen-sulfide-and-health/>.
- Choker, C., 2013. The Art and Science of Odor Modeling, *BioCycle*. August 1. Accessed at <https://www.biocycle.net/the-art-and-science-of-odor-modeling/>.
- Claeson AS, Andersson L. Symptoms from masked acrolein exposure suggest altered trigeminal reactivity in chemical intolerance. *Neurotoxicology*. 2017;60:92–8.
- Cometto-Muñiz JE, Cain WS, Abraham MH, 2003. Dose-addition of individual odorants in the odor detection of binary mixtures. *Behavioural Brain Research*, 138: 95-105.
- Cometto-Muñiz JE, Cain WS, Abraham MH, 2004. Detection of single and mixed VOCs by smell and by sensory irritation. *Indoor Air*; 14 (Suppl 8): 108–117.
- Cometto-Muñiz JE, Cain WS, Abraham MH, 2005. Odor detection of single chemicals and binary mixtures. *Behavioural Brain Research*, 156, 115–123.
- CTEH, LLC, 2005. Health Risks Associated with Short- and Long-Term Exposure to Dimethyl Sulfide (DMS). January 15.
- Demchuk E, Ball SL, Le SL, Prussia AJ, 2018. Concentration-time extrapolation of short-term inhalation exposure levels: dimethyl sulfide, a case study using a chemical-specific toxic load exponent. *Inhalation Toxicology*. 2018; 30 (11-12): 448-462. doi:10.1080/08958378.2018.1551444.
- DTSC, 2011. DTSC Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance). October. Accessed at: https://www.dtsc.ca.gov/assessingRisk/upload/Final_VIG_Oct_2011.pdf

- DTSC, 2015. Preliminary Endangerment Assessment Guidance Manual: A guidance manual for evaluating hazardous substance release sites: October. <https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/04/DTSC-Preliminary-Endangerment-Assessment-Guidance-Manual-October-2015.pdf>
- DTSC, 2019. Human Health Risk Assessment Note Number 10, Table 1: Toxicity Criteria Required by Rule and DTSC-Recommended Toxicity Criteria. February.
- DTSC, 2022a. Human Health Risk Assessment Note 3: DTSC-Modified Screening Levels; June 2020 – Revised May 2022.
- DTSC, 2022b. Human Health Risk Assessment Note 4: Guidance for Screening Level Human Health Risk Assessments; Revised March 2022.
- DTSC, 2023. Supplemental Guidance: Screening and Evaluating Vapor Intrusion Final Draft. February 2023. Accessed at: https://dtsc.ca.gov/wp-content/uploads/sites/31/2023/02/VI_SupGuid_Screening-Evaluating.pdf?emrc=a47a35
- Fiedler N, Kipen H. Chemical sensitivity: the scientific literature. Environ Health Perspect. 1997;105(Suppl 2):409–15.
- Invernizzia M, Brancher M, Sironia S, Capellia L, Piringerc M, Schauburger G, 2020. Odour impact assessment by considering short-term ambient concentrations: A multi-model and two-site comparison. Environment International, 144: 105990.
- Katz SH, Talbert EJ, 1930. Intensities of odors and irritating effects of waning agents for inflammable and poisonous gases. Washington (DC): Government Printing Office. U.S. Dept. of Commerce/Bureau of Mines Technical Paper 480; p. 1–37.
- KSU. Understanding Unites of Measurement. Terrie K. Boguski, PE; Center for Hazardous Substance Research. October. Accessed at: https://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display/files/fileid/14285.
- LA County Planning, 2023. Chiquita Canyon Landfill Website. Accessed at: <https://planning.lacounty.gov/public-hearings-and-meetings/chiquita-canyon-landfill/documents/>
- Millqvist E, Ternesten-Hasséus E, Ståhl A, Bende M. Changes in levels of nerve growth factor in nasal secretions after capsaicin inhalation in patients with airway symptoms from scents and chemicals. Environ Health Perspect. 2005;113:849–52.
- NJDEP, 2021. Technical Manual 1002: Guidance on Preparing an Air Quality Modeling Protocol. May.
- OEHHA, 2008. Technical Support Document for the Derivation of Noncancer Reference Exposure Levels. Air Toxics Hot Spots Risk Assessment Guidelines. June. Accessed at: <https://oehha.ca.gov/media/downloads/cnr/noncancersdfinal.pdf>.
- OEHHA, 2023. OEHHA Acute, 8-hour and Chronic Reference Exposure Level (REL) Summary. October 11. RELs as of August 2020. Accessed at: <https://oehha.ca.gov/air/general-info/oehha-acute-8-hour-and-chronic-reference-exposure-level-rel-summary>.
- Orriols R, Costa R, Cuberas G, Jacas C, Castell J, Sunyer J. Brain dysfunction in multiple chemical sensitivity. J Neurol Sci. 2009;287:72–8.
- RWDI AIR Inc., 2005. Final Report Odour Management in British Columbia: Review and Recommendations. March 31. Accessed at: https://www2.gov.bc.ca/assets/gov/environment/air-land-water/air/reports-pub/odour_mgt_final_june13_05.pdf.

- San Francisco Bay Regional Water Quality Control Board, 2019. Environmental Screening Levels, January, Rev. 2.
- South Coast Air Quality Management District (SCAQMD), 1993. CEQA Air Quality Handbook. April. Accessed at: <https://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>.
- USEPA, 1989. Risk Assessment Guidance for Superfund. Volume I: Human health evaluation manual (Part A). Interim Final. Office of Emergency and Remedial Response. EPA/540/1-89/002. https://www.epa.gov/sites/default/files/2015-09/documents/rags_a.pdf.
- USEPA, 1993. Reference Dose: Description and Use in Health Risk Assessments Background Document 1A: March 15.
- USEPA, 2003. Chemical Assessment Summary: Hydrogen sulfide. Accessed at: https://iris.epa.gov/static/pdfs/0061_summary.pdf
- USEPA, 2005a. Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens. Risk Assessment Forum. EPA/630/R-03/003F: March.
- USEPA, 2005b. Provisional Peer Reviewed Toxicity Values for Dimethyl sulfide. EPA/690/R-05/013F. March 8. Accessed at: <https://cfpub.epa.gov/ncea/pprtv/documents/DimethylSulfide.pdf>.
- USEPA, 2011. Exposure Factors Handbook. Accessed at: <https://www.epa.gov/sites/default/files/2015-09/documents/efh-chapter16.pdf>.
- USEPA, 2012. Fluctuation of Indoor Radon and VOC Concentrations Due to Seasonal Variations. EPA/600/R-12/673. September 2012.
- USEPA, 2023. November 2023 Regional Screening Levels. Accessed at: <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>.

1. Summary of Ambient/Outdoor Air EPCs and Molecular Weights
2. Acute, Chronic and Odor Screening Values for VOCs
3. Acute, Chronic and Odor Screening Values for Sulfur Compounds
4. Cumulative Ambient/Outdoor Air Risk Estimates by Property
- 5a. Chronic Cancer Risk Estimates by COC and Sample Location
- 5b. Chronic Non-Cancer Risk Estimates by COC and Sample Location
- 5c. Acute Non-Cancer Risk Estimates by COC and Sample Location

Table 1: Summary of Ambient/Outdoor Air EPCs and Molecular Weights

Analyte	CAS	Molecular Weight (g/mol)	ROUX01		ROUX02		ROUX03		ROUX04		ROUX05		ROUX06		ROUX07		ROUXB01		ROUXB02	
			Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average	Maximum	Average
1,1-Difluoroethane	75-37-6	66.05	5.00	1.16	5.00	0.68	5.00	0.72	7.30	1.32	5.00	0.78	5.00	0.78	8.10	1.02	5.00	1.64	5.00	0.90
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	187.38	0.62	0.53	0.61	0.54	0.61	0.54	0.59	0.53	0.61	0.53	0.60	0.53	0.60	0.53	0.61	0.53	0.61	0.53
1,2-Dichloroethane	107-06-2	98.96	0.16	0.09	0.16	0.10	0.16	0.10	0.17	0.10	0.16	0.10	0.13	0.09	0.13	0.09	0.16	0.10	0.16	0.10
1,4-Dichlorobenzene	106-46-7	147.00	0.20	0.18	0.20	0.15	0.20	0.17	0.20	0.16	0.20	0.17	0.20	0.16	0.20	0.16	0.20	0.19	0.20	0.16
Benzene	71-43-2	78.12	1.80	0.63	1.30	0.60	1.30	0.65	1.30	0.68	1.30	0.61	1.00	0.58	1.20	0.60	0.64	0.37	1.10	0.52
Carbon tetrachloride	56-23-5	153.82	0.62	0.41	0.63	0.42	0.63	0.41	0.63	0.42	0.64	0.41	0.64	0.39	0.64	0.41	0.65	0.42	0.65	0.41
Chloroform	67-66-3	119.38	0.13	0.08	0.15	0.09	0.14	0.08	0.57	0.11	0.18	0.10	0.21	0.10	0.49	0.15	0.23	0.09	0.27	0.12
Dichlorodifluoromethane	75-71-8	120.91	2.70	2.41	2.80	2.45	2.80	2.47	2.70	2.43	2.80	2.42	2.70	2.40	2.90	2.42	2.70	2.43	2.70	2.41
Ethylbenzene	100-41-4	106.17	0.23	0.10	0.35	0.17	0.38	0.20	0.43	0.22	0.64	0.24	0.31	0.19	0.84	0.20	0.21	0.10	0.28	0.13
Tetrachloroethene	127-18-4	165.83	0.10	0.09	0.32	0.09	0.11	0.09	0.32	0.10	0.20	0.09	0.10	0.08	0.14	0.09	0.13	0.09	0.16	0.09
Toluene	108-88-3	92.14	0.99	0.46	2.00	0.88	2.30	0.97	2.00	1.08	1.90	0.91	1.80	0.98	3.90	1.06	1.10	0.57	1.70	0.76
Total Xylenes	1330-20-7	106.17	0.66	0.34	1.60	0.76	2.10	0.92	1.90	0.98	2.70	1.04	1.60	0.90	4.20	0.87	0.91	0.46	1.30	0.57
trans-1,2-Dichloroethene	156-60-5	96.94	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Trichlorofluoromethane	75-69-4	137.37	1.60	1.30	1.50	1.30	1.50	1.32	1.50	1.29	1.50	1.28	1.50	1.26	1.50	1.28	1.50	1.28	1.50	1.27

Notes:

All results reported in $\mu\text{g}/\text{m}^3$.

Duplicate samples were incorporated by taking the maximum value between the duplicate and parent sample for that sampling location and sample date. This conservatively included non-detect values due to the issue of high reporting limits.

Table 2: Acute, Chronic and Odor Screening Values for VOCs

Chemical	CAS	Acute Screening Level				Chronic Screening Level					Odor Screening Level		
		OEHHA 1-hour Acute SL (µg/m ³)	OEHHA 8-hour Acute SL (µg/m ³)	ATSDR 1-14 day Acute SL (µg/m ³)	Final Screening Level (µg/m ³)	Reference	Chronic SL (Cancer) µg/m ³	Reference	Chronic SL (Noncancer) µg/m ³	Reference	Odor Detection Threshold ^a (µg/m ³)	ESL Odor Nuisance [~] (µg/m ³)	Odor Nuisance (x5 Detection Threshold) [†] (µg/m ³)
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	-	-	-	5.20E+03	USEPA 2023	--	--	5.20E+03	USEPA 2023	--	--	--
1,1-Difluoroethane	75-37-6	-	-	-	4.20E+04	USEPA 2023	--	--	4.20E+04	USEPA 2023	--	--	--
1,2-Dichloroethane	107-06-2	-	-	1.21E+03	1.10E-01	USEPA 2023	1.10E-01	USEPA 2023	7.30E+00	USEPA 2023	1.74E+04	2.42E+03	8.70E+04
1,4-Dichlorobenzene	106-46-7	-	-	1.20E+04	2.60E-01	USEPA 2023	2.60E-01	USEPA 2023	8.30E+02	USEPA 2023	7.27E+02	1.10E+03	3.64E+03
Benzene*	71-43-2	2.70E+01	3.00E+00	2.88E+01	9.70E-02	DTSC 2022	9.70E-02	DTSC 2022	3.10E+00	DTSC 2022	1.50E+03	4.89E+03	7.51E+03
Carbon tetrachloride	56-23-5	1.90E+03	-	-	4.70E-01	DTSC 2022	4.70E-01	DTSC 2022	4.20E+01	DTSC 2022	1.06E+04	6.30E+04	5.28E+04
Chloroform	67-66-3	1.50E+02	-	4.88E+02	1.20E-01	USEPA 2023	1.20E-01	USEPA 2023	1.00E+02	USEPA 2023	4.98E+02	4.22E+05	2.49E+03
Dichlorodifluoromethane	75-71-8	-	-	-	1.00E+02	USEPA 2023	--	--	1.00E+02	USEPA 2023	9.88E+08	--	4.94E+09
Ethylbenzene	100-41-4	-	-	2.17E+04	1.10E+00	USEPA 2023	1.10E+00	USEPA 2023	1.00E+03	USEPA 2023	8.68E+00	2.00E+03	4.34E+01
o-Xylene	95-47-6	2.20E+04	-	-	1.00E+02	USEPA 2023	--	--	1.00E+02	USEPA 2023	5.21E+01	--	2.61E+02
p- & m-Xylenes	108-38-3	2.20E+04	-	-	1.00E+02	USEPA 2023	--	--	1.00E+02	USEPA 2023	5.21E+01	--	2.61E+02
Tetrachloroethene	127-18-4	2.00E+04	-	4.07E+01	4.60E-01	DTSC 2022	4.60E-01	DTSC 2022	4.20E+01	DTSC 2022	5.20E+03	3.17E+04	2.60E+04
Toluene*	108-88-3	5.00E+03	8.30E+02	7.54E+03	3.10E+02	DTSC 2022	--	--	3.10E+02	DTSC 2022	9.80E+01	3.00E+04	4.90E+02
trans-1,2-Dichloroethene	156-60-5	-	-	1.19E+04	8.30E+01	DTSC 2022	--	--	8.30E+01	DTSC 2022	1.10E+06	6.73E+04	5.49E+06
Trichlorofluoromethane	75-69-4	-	-	-	1.30E+03	DTSC 2022	--	--	1.30E+03	DTSC 2022	2.81E+04	--	1.40E+05

Notes and Sources:

-- No screening level available for chemical.

Chronic SLs (Residential):

1. DTSC Note 3, June 2020; Downloaded from: <https://dtsc.ca.gov/human-health-risk-hero/>
2. USEPA RSLs, Nov. 2023; Downloaded from: <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>
3. SFBRWQCB ESLs, 2019. No ESLs were actually referenced in the above table but were referenced as backup.

Acute SLs (Residential):

1. OEHHA Acute (1-hour) and 8-hour RELs. Accessed: <https://oehha.ca.gov/air/general-info/oehha-acute-8-hour-and-chronic-reference-exposure-level-rel-summary>
 2. ASTDR MRLs (1-14 days), August 2023.
- SLs reported in ppm were converted to µg/m³ using EPA's equation: Concentration (µg/m³) = 0.0409 x concentration (ppm) x 1000 x molecular weight (g/mol) (<https://cfpub.epa.gov/ncer/abstracts/index.cfm/fuseaction/display.files/fileid/14285>)

Odor SLs:

^aOdor Detection Thresholds are the minimum value from Table 6.1, Range of Odor Values (ppm), from AIHA, 3rd Edition (2019).
[~]San Francisco Bay Regional Water Quality Control Board ESLs (2019) list "Final Odor Nuisance Screening Levels" for volatile chemicals only.
[†]South Coast Air Quality Management District (SCAQMD) Handbook (1993) utilizes a factor of 5 when determining an odor nuisance level. Odor Nuisance = AIHA Odor Detection Threshold x 5

Table 3: Acute, Chronic and Odor Screening Values for Sulfur Compounds

Chemical	CAS	Acute Screening Level				Chronic Screening Level					Odor Screening Level		
		OEHHA 1-hour Acute SL (ppm)	OEHHA 8-hour Acute SL (ppm)	ATSDR 1-14 day Acute SL (ppm)	Final Screening Level (ppm)	Reference	Chronic SL (Cancer) ppm	Reference	Chronic SL (Noncancer) ppm	Reference	Odor Detection Threshold [^] (ppm)	Odor Nuisance (x5 Detection Threshold) [†] (ppm)	CARB Ambient Air Quality Standard (ppm)
Carbon disulfide	75-15-0	1.99E+00	--	-	2.34E-01	USEPA RSLs	--	--	2.34E-01	USEPA RSLs	1.60E-02	8.00E-02	--
Carbonyl sulfide	463-58-1	2.68E-01	4.06E-03	-	4.07E-03	DTSC 2020	--	--	4.07E-03	DTSC 2020	5.70E-02	2.85E-01	--
Dimethyl disulfide	624-92-0	--	--	-	--	--	--	--	--	--	2.90E-04	1.45E-03	--
Dimethyl sulfide	75-18-3	--	--	-	--	--	--	--	--	--	1.20E-04	6.00E-04	--
Ethyl mercaptan	75-08-1	--	--	-	--	--	--	--	--	--	8.70E-06	4.35E-05	--
Hydrogen sulfide	7783-06-4	3.01E-02	--	7.00E-02	7.00E-03	OEHHA 2023	--	--	7.00E-03	OEHHA 2023	4.00E-05	2.00E-04	3.00E-02
i-Butyl mercaptan	109-79-5	--	--	-	--	--	--	--	--	--	2.70E-06	1.35E-05	--
i-Propyl mercaptan	75-33-2	--	--	-	--	--	--	--	--	--	1.30E-05	6.50E-05	--
Methyl mercaptan	74-93-1	--	--	-	--	--	--	--	--	--	5.10E-13	2.55E-12	--
n-Propyl mercaptan	107-03-9	--	--	-	--	--	--	--	--	--	1.30E-05	6.50E-05	--
s-Butyl mercaptan	513-53-1	--	--	-	--	--	--	--	--	--	2.70E-06	1.35E-05	--
t-Butyl mercaptan	75-66-1	--	--	-	--	--	--	--	--	--	2.70E-06	1.35E-05	--
Tetrahydrothiophene	110-01-0	--	--	-	--	--	--	--	--	--	3.88E-05	1.94E-04	--
Total Sulfur	TOT SUL	--	--	-	--	--	--	--	--	--	--	--	--
Unidentified sulfurs	UNID SUL	--	--	-	--	--	--	--	--	--	5.10E-13	2.55E-12	--

Notes and Sources:

-- No screening level available for chemical.

Chronic SLs (Residential):

1. DTSC Note 3, June 2020; Downloaded from: <https://dtsc.ca.gov/human-health-risk-hero/>
 2. USEPA RSLs, Nov. 2023; Downloaded from: <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>
 3. SFBRWQCB ESLs, 2019. No ESLs were actually referenced in the above table but were reviewed as backup.
- SLs reported in $\mu\text{g}/\text{m}^3$ were converted to ppm using EPA's equation: Concentration (ppm) = $(24.45 \times \text{concentration } (\mu\text{g}/\text{m}^3) / \text{molecular weight (g/mol)}) / 1000$ (<https://cfpub.epa.gov/ncer/abstracts/index.cfm?fuseaction/display.files/fileid/14285>)
 - The chronic screening level for hydrogen sulfide was pulled from OEHHA 2023.

Acute SLs (Residential):

1. OEHHA Acute (1-hour) and 8-hour RELs; Acute 1-hour was utilized. Accessed: <https://oehha.ca.gov/air/general-info/oehha-acute-8-hour-and-chronic-reference-exposure-level-rel-summary>
 2. ASTDR MRLs (1-14 days), August 2023.
- SLs reported in $\mu\text{g}/\text{m}^3$ were converted to ppm using EPA's equation: Concentration (ppm) = $(24.45 \times \text{concentration } (\mu\text{g}/\text{m}^3) \times \text{molecular weight (g/mol)}) / 1000$ (<https://cfpub.epa.gov/ncer/abstracts/index.cfm?fuseaction/display.files/fileid/14285>)

Odor SLs:

- [^]Odor Detection Thresholds are the minimum value from Table 6.1, Range of Odor Values (ppm), from AIHA, 3rd Edition (2019).
- [†]South Coast Air Quality Management District (SCAQMD) Handbook (1993) utilizes a factor of 5 when determining an odor nuisance level. Odor Nuisance = Odor Detection Threshold x 5
- CARB Ambient Air Quality Standard for Hydrogen Sulfide referenced at: <https://ww2.arb.ca.gov/resources/hydrogen-sulfide-and-health/>

Bold Odor Thresholds indicate a proxy screening level has been used:

- Lowest sulfur compound odor threshold level (for methyl mercaptan) was utilized as a proxy screening level for "Unidentified sulfurs."
- The odor threshold for i-Butyl mercaptan was used for s- and t-Butyl mercaptan.
- The odor threshold for n-Propyl mercaptan was used for i-Propyl mercaptan.

Table 4: Cumulative Ambient/Outdoor Air Risk Estimates by Location

Sample Location	Cumulative Risk Estimates			Cumulative Risk Estimates without Benzene and Carbon Tetrachloride			Benzene and Carbon Tetrachloride Risk Estimates		
	Acute HI	Chronic ILCR	Chronic HI	Acute HI	Chronic ILCR	Chronic HI	Acute HI	Chronic ILCR	Chronic HI
ROUX01	6.60E-02	9.94E-06	2.61E-01	3.09E-03	2.53E-06	4.70E-02	6.29E-02	7.41E-06	2.14E-01
ROUX02	5.43E-02	9.59E-06	2.56E-01	8.79E-03	2.55E-06	5.35E-02	4.55E-02	7.03E-06	2.02E-01
ROUX03	4.92E-02	1.02E-05	2.75E-01	3.71E-03	2.60E-06	5.55E-02	4.55E-02	7.59E-06	2.20E-01
ROUX04	5.52E-02	1.07E-05	2.86E-01	9.70E-03	2.79E-06	5.66E-02	4.55E-02	7.91E-06	2.30E-01
ROUX05	5.16E-02	9.93E-06	2.63E-01	6.03E-03	2.76E-06	5.61E-02	4.55E-02	7.17E-06	2.07E-01
ROUX06	3.86E-02	9.47E-06	2.50E-01	3.45E-03	2.68E-06	5.41E-02	3.51E-02	6.79E-06	1.96E-01
ROUX07	4.77E-02	1.02E-05	2.59E-01	5.61E-03	3.09E-06	5.49E-02	4.21E-02	7.08E-06	2.04E-01
ROUXB01	2.67E-02	7.35E-06	1.77E-01	4.08E-03	2.69E-06	4.90E-02	2.26E-02	4.66E-06	1.28E-01
ROUXB02	4.36E-02	9.04E-06	2.28E-01	5.03E-03	2.81E-06	5.11E-02	3.86E-02	6.23E-06	1.77E-01

Table 5a. Chronic Cancer Risk Estimates by COC and Sample Location.

Chemical	ROUX01	ROUX02	ROUX03	ROUX04	ROUX05	ROUX06	ROUX07	ROUXB01	ROUXB02
Benzene	6.53E-06	6.14E-06	6.71E-06	7.03E-06	6.29E-06	5.95E-06	6.21E-06	3.78E-06	5.35E-06
Carbon tetrachloride	8.75E-07	8.89E-07	8.81E-07	8.89E-07	8.80E-07	8.37E-07	8.79E-07	8.83E-07	8.81E-07
1,2-Dichloroethane	8.59E-07	8.91E-07	8.89E-07	8.94E-07	8.90E-07	8.58E-07	8.56E-07	8.68E-07	8.92E-07
1,4-Dichlorobenzene	7.09E-07	5.87E-07	6.46E-07	6.01E-07	6.51E-07	6.28E-07	6.34E-07	7.40E-07	6.34E-07
Chloroform	6.71E-07	7.15E-07	6.90E-07	8.79E-07	8.18E-07	8.48E-07	1.24E-06	7.88E-07	9.68E-07
Tetrachloroethene	2.04E-07	2.04E-07	1.89E-07	2.14E-07	1.88E-07	1.72E-07	1.87E-07	1.99E-07	1.97E-07
Ethylbenzene	9.22E-08	1.57E-07	1.85E-07	1.97E-07	2.15E-07	1.75E-07	1.78E-07	9.44E-08	1.16E-07
1,1-Difluoroethane	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	NS	NS	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS

NS = no cancer risk could be estimated due to no screening level having been derived for that specific compound.

Table 5b. Chronic Non-Cancer Risk Estimates by COC and Sample Location.

Chemical	ROUX01	ROUX02	ROUX03	ROUX04	ROUX05	ROUX06	ROUX07	ROUXB01	ROUXB02
1,1,2-Trichloro-1,2,2-trifluoroethane	1.02E-04	1.03E-04	1.04E-04	1.02E-04	1.01E-04	1.01E-04	1.02E-04	1.02E-04	1.02E-04
1,1-Difluoroethane	2.76E-05	1.63E-05	1.72E-05	3.15E-05	1.86E-05	1.86E-05	2.44E-05	3.90E-05	2.14E-05
1,2-Dichloroethane	1.29E-02	1.34E-02	1.34E-02	1.35E-02	1.34E-02	1.29E-02	1.29E-02	1.31E-02	1.34E-02
1,4-Dichlorobenzene	2.22E-04	1.84E-04	2.02E-04	1.88E-04	2.04E-04	1.97E-04	1.99E-04	2.32E-04	1.99E-04
Benzene	2.04E-01	1.92E-01	2.10E-01	2.20E-01	1.97E-01	1.86E-01	1.94E-01	1.18E-01	1.67E-01
Carbon tetrachloride	9.80E-03	9.95E-03	9.86E-03	9.94E-03	9.85E-03	9.37E-03	9.84E-03	9.89E-03	9.86E-03
Chloroform	8.05E-04	8.58E-04	8.28E-04	1.06E-03	9.82E-04	1.02E-03	1.48E-03	9.45E-04	1.16E-03
Dichlorodifluoromethane	2.41E-02	2.45E-02	2.47E-02	2.43E-02	2.42E-02	2.40E-02	2.42E-02	2.43E-02	2.41E-02
Ethylbenzene	1.01E-04	1.72E-04	2.03E-04	2.17E-04	2.36E-04	1.93E-04	1.96E-04	1.04E-04	1.28E-04
Tetrachloroethene	2.23E-03	2.24E-03	2.07E-03	2.35E-03	2.06E-03	1.89E-03	2.05E-03	2.18E-03	2.16E-03
Toluene	1.48E-03	2.84E-03	3.13E-03	3.47E-03	2.94E-03	3.15E-03	3.41E-03	1.83E-03	2.44E-03
Total Xylenes	3.36E-03	7.65E-03	9.24E-03	9.85E-03	1.04E-02	8.95E-03	8.75E-03	4.61E-03	5.74E-03
trans-1,2-Dichloroethene	6.02E-04	6.02E-04	6.02E-04	6.02E-04	6.09E-04	6.02E-04	5.80E-04	6.02E-04	6.02E-04
Trichlorofluoromethane	9.96E-04	1.00E-03	1.02E-03	9.89E-04	9.85E-04	9.71E-04	9.82E-04	9.85E-04	9.74E-04

Table 5c. Acute Non-Cancer Risk Estimates by COC and Sample Location.

Chemical	ROUX01	ROUX02	ROUX03	ROUX04	ROUX05	ROUX06	ROUX07	ROUXB01	ROUXB02
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,1-Difluoroethane	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	1.32E-04	1.32E-04	1.32E-04	1.40E-04	1.32E-04	1.07E-04	1.07E-04	1.32E-04	1.32E-04
1,4-Dichlorobenzene	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05	1.66E-05
Benzene	6.26E-02	4.52E-02	4.52E-02	4.52E-02	4.52E-02	3.48E-02	4.17E-02	2.23E-02	3.83E-02
Carbon tetrachloride	3.26E-04	3.32E-04	3.32E-04	3.32E-04	3.37E-04	3.37E-04	3.37E-04	3.42E-04	3.42E-04
Chloroform	2.66E-04	3.07E-04	2.87E-04	1.17E-03	3.69E-04	4.30E-04	1.00E-03	4.71E-04	5.53E-04
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	1.06E-05	1.61E-05	1.75E-05	1.98E-05	2.95E-05	1.43E-05	3.87E-05	9.67E-06	1.29E-05
Tetrachloroethene	2.46E-03	7.86E-03	2.70E-03	7.86E-03	4.91E-03	2.46E-03	3.44E-03	3.19E-03	3.93E-03
Toluene	1.31E-04	2.65E-04	3.05E-04	2.65E-04	2.52E-04	2.39E-04	5.17E-04	1.46E-04	2.26E-04
Total Xylenes	7.60E-05	1.84E-04	2.42E-04	2.19E-04	3.11E-04	1.84E-04	4.84E-04	1.05E-04	1.50E-04
trans-1,2-Dichloroethene	4.20E-06	4.20E-06	4.20E-06	4.20E-06	5.21E-06	4.20E-06	4.20E-06	4.20E-06	4.20E-06
Trichlorofluoromethane	NS	NS	NS	NS	NS	NS	NS	NS	NS

NS = no risk could be estimated due to no screening level having been derived for that specific compound.