

# Vapor Intrusion Investigation Report

New Housing New York Legacy Project 700-730 Brook Avenue BRONX, NEW YORK Site # C203043

May 2019

Prepared for: Via Verde Homes, LLC Via Verde Rental Associates, L.P. 902 Broadway, 13th Floor New York, New York 10010

Prepared by:

CA RICH Consultants, Inc. 17 Dupont Street Plainview, NY 11803



April 16, 2019 Revised May 8, 2019

NYS Dept. of Environmental Conservation Region 2 Office Division of Environmental Remediation 47-40 21st Street Long Island City NY 11101

Attn: Mandy Yau, Project Manager

> Re: Vapor Intrusion Investigation New Housing New York Legacy Project (AKA Via Verde) 700-730 Brook Avenue Bronx, NY Site # C203043

Dear Ms. Yau:

Enclosed, please find the Vapor Intrusion Investigation Report for the above-referenced Site. This report has been revised to incorporate comments received by the New York State Department of Health in their letter dated April 29, 2019 and supersedes our earlier one dated April 16, 2019. If you have any questions pertaining to this report, please feel free to contact the undersigned.

Respectfully Submitted,

CA RICH Consultants, Inc.

Richard J. Izzo, PG, CPG Vice President

CC:

Michael Wadman Sara Bogardus

#### Introduction and Scope of Work

This Vapor Intrusion Investigation Report has been prepared by CA RICH Consultants, Inc. (CA RICH) on behalf of Via Verde Homes, LLC and Via Verde Rental Associates, L.P. (the Owners) for the New Housing New York Legacy Project (AKA Via Verde) property located at 700-730 Brook Avenue in the Bronx, New York (hereinafter referred to as the "Site").

This Report addresses the investigation activities completed to fully characterize the extent of vapor intrusion in each of the five on-site buildings on the subject Property. This investigation was performed to update vapor-intrusion conditions following successful continual operation and maintenance of a sub-slab depressurization system (SSDS) on the Site for the past eight years. The SSDS was shut down for a period of thirty days prior to performing the sampling discussed below.

#### Sub-Slab Soil Vapor, Indoor, and Outdoor Air Sampling

To evaluate the potential for a soil vapor intrusion condition at the Site, CA RICH conducted subslab soil vapor, indoor air, and outdoor air sampling activities. CA RICH's sampling activities were conducted pursuant to the Vapor Intrusion Investigation Work Plan approved by the New York State Department of Environmental Conservation (NYSDEC) in their letter dated February 8, 2019.

On March 6, 2019 ten temporary sub-slab soil vapor probes (two in each building) were installed by CA RICH in accordance with the NYSDOH "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" dated October 2006, updated May 2017 (NYSDOH Guidance). The soil vapor probes were installed using hand tools and consist of ¼-inch stainless steel tubing extended just below the concrete slab. The probes did not extend further than two inches into the sub-slab material. The annular space around the stainless steel screen was packed with coarse sand and finished with a clay seal. After installing the sub-slab soil vapor probes, the points were allowed to set overnight.

On March 7, 2019, CA RICH returned to set up Summa canisters for collection of vapor samples. Prior to sampling, three volumes of vapor was purged from the soil vapor probe using a calibrated air sampling pump. The purged sub-slab vapor was collected in a Tedlar bag and released outside to prevent impacts to indoor air quality during sampling. During purging and sampling, the flow rate did not exceed 0.2 liters per minute. In addition, helium was used as a tracer gas during purging to verify that ambient air was not infiltrating the sub-slab sampling assembly.

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Additionally, at the same time as the sub-slab vapor sample collection, indoor air samples were collected from locations adjacent to the sub-slab sampling points within each building (a total of ten) along with one outdoor "background" air sample. The outdoor sample was placed in an upwind location. On March 8, 2019, CA RICH returned to the Site to collect the sample canisters and repair holes in the concrete drilled for the vapor points.

Upon completion of sample collection, the canisters were sent to NYSDOH-approved Alpha Analytical of Mansfield, Massachusetts for analysis of Volatile Organic Compounds (VOCs) via EPA method T0-15 with SIM in accordance with NYSDOH's Guidance for Evaluating Soil Vapor Intrusion in the State of New York. Laboratory results were submitted to an independent Data Validator and a Data Usability Summary Report (DUSR) was prepared.

The results are summarized on Table 1 and a copy of the DUSR/laboratory report is included in Appendix A. The sub-slab soil vapor, indoor and outdoor air sample locations are depicted on Figure 1. A chemical inventory was logged at the Site prior to air sampling. A description of each of the sampling locations, along with a chemical inventory is included on Table 2.

#### Results

#### Sub-Slab Soil Vapor, Indoor, and Outdoor Air Quality

The sub-slab soil vapor, indoor air, and outdoor air quality samples were collected at the Site on March 7-8, 2019. The NYSDOH Decision Matrix Tables A, B, and C were utilized to evaluate the sample results. The "decision matrices" have guideline levels for only eight compounds and use the sub-slab soil vapor and indoor air concentrations for comparison to determine the quality of the air and the appropriate action to take when elevated levels are encountered. The laboratory results for all samples are summarized on Table 1. The following summarizes the laboratory results as they compare to NYSDOH Decision Matrices and the appropriate action to be taken:

Sub-Slab Soil Vapor and Indoor Air – Several compounds were detected in sub slab and indoor air samples including dichlorodifluoromethane, ethanol, acetone, trichlorofluoromethane, isopropanol, 2-butanone, ethyl acetate, tetrahydrofuran, benzene, 1,4-dioxane, tetrachloroethene, chlorobenzene, p/m-xylene, o-xylene, 4-ethyltoluene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,4-dichlorobenzene, and 1,2dichlorobenzene. Concentrations of these compounds in sub-slab vapor generally ranged from non-detected up to 311 micrograms per cubic meter (ug/m<sup>3</sup>) but were mostly detected in the single-digit to tens of ug/m<sup>3</sup> range of magnitude. The highest concentration (311 ug/m<sup>3</sup>) was detected for toluene in sample SSV-9. Toluene was one of the compounds detected in pre-remediation soil vapor samples collected during the

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Remedial Investigation (RI) back in 2009. Other compounds of note detected during the RI and again during this investigation include benzene, m-p and o-xylenes, and tetrachloroethene.

Indoor air concentrations for the detected compounds listed above generally ranged from non-detected to the tens of ug/m<sup>3</sup> range of magnitude. The exception to this is ethanol which was detected at concentrations up to 226 ug/m<sup>3</sup> in indoor air sample IA-6. The concentration of ethanol in the sub-slab sample from that same location (SV-6) was measured at 55.2 ug/m<sup>3</sup>, suggesting the source of ethanol is inside the building and not soil vapor intrusion. Several cleaning products on a janitor cart were noted in the area of IA-6 during indoor air testing as listed on Table 2. There are currently no soil vapor or indoor air standards for ethanol.

Compounds detected in sub-slab samples and indoor air that have limitation standards in accordance with NYSDOH decision matrices are limited to tetrachloroethene, carbon tetrachloride and methylene chloride. Only methylene chloride was detected at levels in excess of those indicating "no further action" as per the NYSDOH decision matrices. Specifically, Methylene Chloride was detected in sample IA-10 at a concentration of 49.3 ug/m<sup>3</sup>. The NYSDOH matrix level for no further action in indoor air for methylene chloride is 3 ug/m<sup>3</sup>. According to the NYSDOH matrix, the recommended response is to "Take reasonable and practical actions to identify source(s) and reduce exposures".

It is noted (as shown on Table 2) that sample IA-10 was collected within the Midrise Zone 2 building in a hallway near the booster pump, gas meter and fire pump room, and no stored chemicals or furnace use were observed in that area. In addition, the sub-slab sample from the same location contained methylene chloride at only 4.62 ug/m<sup>3</sup>. The other indoor air sample from the same building (IA-9) collected approximately 60 feet away from IA-10 contained no detectable concentration of methylene chloride.

 Outdoor Air – Low levels of various VOCs were detected in the outdoor air sample (OA-1). There are no NYSDOH standards currently established for VOCs in outdoor air. For the purposes of interpreting the results, the outdoor air was used to identify background levels of VOCs in the ambient air. Sample OA-1 contained no detectable concentration of methylene chloride. Ethanol was detected in outdoor air at a concentration of 15.3 ug/m<sup>3</sup>, and carbon tetrachloride was detected in outdoor air at a concentration of 0.409 ug/m<sup>3</sup>.

#### **Conclusion and Recommendation**

The Vapor Intrusion Investigation was performed in accordance with NYSDOH Guidance and generally accepted protocols within the environmental consulting industry. At the time of this study, and based upon the limitations inherent to the kind of information that can be generated by the specific data that was acquired, we provide the following conclusion and recommendation for the Site:

The NYSDOH has developed decision matrices for eight compounds, which are tools used to determine the appropriate action when elevated readings of certain compounds are detected. The sub-slab soil vapor and indoor air sample results when compared to the NYSDOH Decision Matrix indicate only methylene chloride detected in one indoor air sample (IA-10) at a concentration exceeding the "no further action" level. As this level is an order of magnitude above the level detected in the sub-slab sample from the same location, the concentration of methylene chloride does not appear to be a result of vapor intrusion. In addition, analysis of sample IA-9 collected approximately 60 feet away from IA-10 revealed no detectable concentration of methylene chloride. An inventory of chemicals in the area from which IA-10 was taken revealed no obvious sources of methylene chloride. Methylene chloride is also a common laboratory contaminant as further discussed in Section 1.5 of the attached DUSR.

Based upon the results of this Vapor Intrusion investigation, it is recommended that the SSD system at the Site be allowed to remain in passive mode for one year at which time a second round of sampling will be performed to confirm that the system may remain in passive mode permanently.



	Table 1 Vapor Infrusion Study Via Varde 700-730 Brock Avenue Bronx, New York																							
ANALYTE	SAMPLE ID COLLECTION DATE SAMPLE MATRIX	: SSV-1 : 3/8/2019 : SOIL VAPOF Result	SSV-2 3/8/2019 SOIL VAPOR Result	SSV-3 3/8/2019 SOIL VAPOR Result	SSV-4 3/8/2019 SOIL VAPOR Result	SSV-5 3/8/2019 SOIL VAPOR Result	SSV-6 3/8/2019 SOIL VAPOR Result	SSV-7 3/8/2019 SOIL VAPOR Result	SSV-8 3/8/2019 SOIL VAPOR Result	SSV-9 3/8/2019 SOIL VAPOR Result	SSV-10 3/8/2019 SOIL VAPOR Result	*NYSDOH 2017 Matrices A, B, & C No Further Action For Soil Vapor	IA-1 3/8/2019 INDOOR AIF Result	IA-2 3/8/2019 R INDOOR AIR Result	IA-3 3/8/2019 INDOOR AIR Result	IA-4 3/8/2019 INDOOR AIF Result	IA-5 3/8/2019 R INDOOR AIF Result	IA-6 3/8/2019 R INDOOR AIF Result	IA-7 3/8/2019 INDOOR AIR Result	IA-8 3/8/2019 INDOOR AIF Result	IA-9 3/8/2019 INDOOR AIR Result	IA-10 3/8/2019 INDOOR AIR Result	*NYSDOH 2017 Matrices A, B, & C No Further Action For Indoor Air	OA-1 3/8/2019 OUTDOOR AIR Result
Dichloradifluoranethan Chloranethane Freen-114 Vimy chloride <sup>6</sup> 1.3-Butadiene Bromomethane Chloroethane Enhanoi Acetione Trichlorofluoromethane Isopropano 1.1-Dichloroethane <sup>6</sup> Tertiary butyl Alcohol Carbon disulfide Tertiary butyl Alcohol Carbon disulfide Tertiary butyl Alcohol Tertiary butyl Alcohol Tertiary butyl Alcohol Tertiary butyl Alcohol Carbon disulfide Tertiary butyl Alcohol Tertiary butyl Alcohol 1.1-Dichloroethane Methyl tert butyl ethe 2-Butanone cis 1.2-Dichloroethane Methyl tert butyl ethe 2-Butanone	*	1.46 ND ND ND ND ND 16.9 ND 16.9 ND ND ND ND ND ND ND ND ND ND ND ND	1.55 ND ND ND ND 16.4 ND 7.06 1.49 15.8 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.73 ND ND ND ND ND 1.89 1.22 2.22 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.57 ND ND ND ND 16.7 ND 1.91 13.2 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.33 ND ND ND ND ND 40.7 2.66 20.3 ND ND ND ND ND ND ND ND ND ND ND ND ND	5.19 ND ND ND 55.2 ND 21.8 5.02 2.3.1 ND ND 2.75 ND ND ND ND ND ND ND ND ND ND ND ND ND	2.2 ND ND ND ND ND 39.4 ND 12.1 2 3.4 ND ND ND ND ND ND ND ND ND ND ND ND ND	2.51 ND ND ND ND 23.4 ND 2.24 19.8 ND ND ND ND ND ND ND ND ND ND ND ND ND	3.5 ND ND ND ND ND 7.55 22.6 ND ND ND ND ND ND ND ND ND ND ND ND ND	11.3 ND ND ND ND ND 38.3 ND 2.41 4.62 ND ND ND ND ND ND ND ND ND ND ND ND ND	NS 85 65 85 85 85 85 85 85 85 85 85 85 85 85 85	1.77 1.02 ND ND ND ND 164 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.61 1.10 ND ND ND ND 172 6.39 ND 15.22 6.39 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.6 1.15 ND ND ND 1920 13.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.49 1.15 ND ND ND ND 183 ND 13.5 1.16 7.05 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.85 1.2 ND ND ND ND 170 9.19 ND ND ND ND ND ND ND ND ND ND	1.49 1.18 ND ND ND 226 ND 17.4 6.83 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.96 1.12 ND ND ND ND 59.7 ND 8.88 1.2 32.4 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.59 1.11 ND ND ND ND ND 16.4 1.18 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.55 1.15 ND ND ND ND 163 ND 161 ND ND ND ND ND ND ND ND ND ND ND ND ND	1.61 1.07 ND ND ND 155 1.19 118 ND ND ND ND ND ND ND ND ND ND ND ND ND	NS NS 40.2 NS NS NS NS NS NS NS NS NS NS NS NS NS	1.26 1.03 ND ND ND 15.3 ND 3.52 1.15 1.68 ND ND ND ND ND ND ND ND ND ND ND ND ND
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### Table 2

### Sampling Locations and List of Stored Chemicals Via Verde Vapor Intrusion Investigation March 2019

Sample ID	Location	Stored Chemicals
SSV/IA-1	Duplex Zone 4 (East) Cellar Hallway	Rat trap
SSV/IA-2	Duplex Zone 4 (East) Cellar Hallway	None
SSV/IA 3	Duplex Zone 4 (West) Cellar Telecom	None
SSV/IA-4	Duplex Zone 4 (West) Cellar Hallway	Ice melt (NaCl & MaCl <sub>2</sub> ), rat trap
SSV/IA-5	Midrise Zone 3 Cellar Telecom Room	None
SSV/IA-6	Midrise Zone 3 Cellar Hallway	Cleaning products (janitor cart), rat trap
SSV/IA-7	Tower Zone 1 Cellar East Storage Rm.	None
SSV/IA-8	Tower Zone 1 Cellar West Storage Rm.	None
SSV/IA-9	Midrise Zone 2 Gnd. Floor Stairwell	Fire extinguisher
SSV/IA-10	Midrise Zone 2 Gnd. Floor Hallway	Latex floor paint, spackle
OA-1	Courtyard	NA



# Appendix A

# **DUSR/Lab Data**

## DATA USABILITY SUMMARY REPORT (DUSR)

#### **ORGANIC ANALYSIS**

EPA Compendium Method TO-15 LOW LEVEL VOLATILES BY GC/MS For Soil Vapor/Indoor/Ambient Air Samples Collected March 08, 2019 From 700-730 Brook Avenue, Bronx, NY Via Verde by CA Rich Consultants Inc.

SAMPLE DELIVERY GROUP NUMBER: L1909348 Alpha Analytical (ELAP #11148)

**SUBMITTED TO:** 

Mr. Rich Izzo CA Rich Consultants, Inc. 17 Dupont Street Plainview, NY 11803

April 19, 2019

**PREPARED BY:** 

Lori A. Beyer/President L.A.B. Validation Corp. 14 West Point Drive East Northport, NY 11731

East Northport, NY 11731

Via Verde; 700-730 Brook Avenue, Bronx, New York; March 2019. Data Validation Report: Volatile Organics by EPA Method TO15

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- 1.0 Volatile Organics by GC/MS EPA Compendium Method TO-15
  - 1.1 Holding Time
  - 1.2 Surrogate Standards
  - 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD), Laboratory Duplicate, Field Duplicate Analysis
  - 1.4 Laboratory Control Sample
  - 1.5 Blank Contamination
  - 1.6 GC/MS Instrument Performance Check
  - 1.7 Initial and Continuing Calibrations
  - 1.8 Internal Standards
  - 1.9 Target Compound List Identification
  - 1.10 Tentatively Identified Compounds
  - 1.11 Compound Quantification and Reported Detection Limits
  - 1.12 Overall System Performance

#### **APPENDICES:**

- A. Chain of Custody Documents
- B. Case Narrative
- C. Data Summary Form Is with Qualifications

#### Introduction:

A validation was performed on twenty-one (21) air samples for Volatile Organic analysis collected by CA Rich Consultants, Inc. and submitted to Alpha Analytical for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the field samples itemized below. The samples were collected on March 08, 2019 through March 09, 2019.

The samples were analyzed by Alpha Analytical utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the TO-15 Compound List.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 6-Updated September 2016) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

Sample Identification	Laboratory	Sample Matrix	Collection
1	Identification	(Air Type)	Date
SSV-1	L1909348-01	Soil Vapor	03/08/2019
SSV-2	L1909348-02	Soil Vapor	03/08/2019
SSV-3	L1909348-03	Soil Vapor	03/08/2019
SSV-4	L1909348-04	Soil Vapor	03/08/2019
SSV-5	L1909348-05	Soil Vapor	03/08/2019
SSV-6	L1909348-06	Soil Vapor	03/08/2019
SSV-7	L1909348-07	Soil Vapor	03/08/2019
SSV-8	L1909348-08	Soil Vapor	03/08/2019
SSV-9	L1909348-09	Soil Vapor	03/08/2019
SSV-10	L1909348-010	Soil Vapor	03/08/2019
IA-1	L1909348-011	Indoor Air	03/08/2019
IA-2	L1909348-012	Indoor Air	03/08/2019
IA-3	L1909348-013	Indoor Air	03/08/2019
IA-4	L1909348-014	Indoor Air	03/08/2019
IA-5	L1909348-015	Indoor Air	03/08/2019
IA-6	L1909348-016	Indoor Air	03/08/2019
IA-7	L1909348-017	Indoor Air	03/08/2019
IA-8	L1909348-018	Indoor Air	03/08/2019
IA-9	L1909348-019	Indoor Air	03/08/2019
IA-10	L1909348-20	Indoor Air	03/08/2019
OA-1	L1909348-21	Outdoor Air	03/08/2019

The data validation report pertains to the following field air samples:

#### **Data Qualifier Definitions:**

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

**U** - The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ The result is an estimated quantity, but the result may be biased high.

J- - The result is an estimated quantity, but the result may be biased low.

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

**R** - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

**D** - Analyte concentration was obtained from diluted analysis.

#### Sample Receipt:

The Chain of Custody document from 03/08/19 indicates that the air samples were received on 03/11/19 via laboratory courier. Sample login notes and the chain of custody indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory SSV-6 was received at elevated pressure (-15.0 in. Hg) which resulted in dilution required by the laboratory. No additional discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

Summa Canisters were leak tested prior to collection of each sample. Initial pressure gauge is recorded on the chain of custody and is required to be approximately 30 psi with zero air. Acceptable canister pressure was observed for these samples. All canisters pass the leak check requirements.

The data summary Form I's included in Appendix C includes all usable (qualified) and unusable (rejected) results for the samples identified above and summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's for ease of review and verification.

#### NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

#### Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Laboratory Duplicate, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results are valid and useable as noted on the data summary Form I's in Appendix C and within the following text:

#### 1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Air samples pertaining to this SDG were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

#### **1.2** Surrogate Standards

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Samples were not spiked with surrogate standards. Method TO15 does not mandate the addition of surrogate standards.

#### 1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Laboratory Duplicate /Field Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to this SDG.

Laboratory duplicate was performed on IA-3. Acceptable precision was observed for detected analytes (<25%).

Field Duplicate analysis was not submitted. Acceptable precision for air samples is 50% when provided. The following criteria are utilized for Field/Lab Duplicate analysis:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent of duplicate sample. However, the detected concentration was =2x<br the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample However, the detected concentration was >2x the reporting limit.	J in the parent and duplicate sample	UJ in the parent of duplicate sample

No qualifications to the data were applied based on MS/MSD/Laboratory Duplicate and Field Duplicate analysis.

#### **1.4 Laboratory Control Sample**

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

The following table summarizes the LCS criteria and the data qualification guidelines for all associated field samples.

LCS	NOT QUALIFIED	J	R
% Recovery:			
Detects	70-130%	<70%,>130%	
Non-Detects	>/=130%	50-69%	<50%
Absolute RT of LCS			
Compounds:			
LCS Compounds in	+/-0.33		>/=0.33
samples RT: (min)			

Acceptable LCS was analyzed with this SDG pertaining to this sampling event. Recovery values for all spiked compounds was determined to be >70%-<130% for all analytes except for 1,2,4-Trichlorobenzene (151%)

and Hexachlorobutadiene (144%). This LCS is associated with all indoor air and the outdoor air sample. These target compounds were not detected in corresponding field samples and therefore high recovery does not support any potential loss of detection and/or result bias. Sample results are not impacted.

#### 1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples and are not required for TO15 analysis. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to method blank contamination. The largest value from all the associated blanks is required to be utilized. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples						
Method, Storage, field,	Detects	Not Detected	No qualification required						
Trip, Instrument	<crql*< td=""><td><crql*< td=""><td colspan="7">Report CRQL value with a U</td></crql*<></td></crql*<>	<crql*< td=""><td colspan="7">Report CRQL value with a U</td></crql*<>	Report CRQL value with a U						
		>= CRQL* and $<2x$ the	No qualification required						
		CRQL**							
	>CRQL*	= CRQL*</td <td>Report CRQL value with a U</td>	Report CRQL value with a U						
		>/=CRQL* and = blank</td <td colspan="6">Report blank value for sample concentration</td>	Report blank value for sample concentration						
		concentration	with a U						
	1	>/= CRQL* and > blank	No qualification required						
		concentration							
	=CRQL*	= CRQL*</td <td>Report CRQL value with a U</td>	Report CRQL value with a U						
		>CRQL*	No qualification required						
	Gross Contamination**	Detects	Report blank value for sample concentration						
			with a U						

\*2x the CRQL for methylene chloride, 2-butanone and acetone. \*\*4x the CRQL for methylene chloride, 2-butanone, and acetone \*\*\*Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L. Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

The table below is utilized to qualify samples with target compound results also present in certification blanks:

Certification Contamination	Sample Result	Action for Sample
>/=detect limit	>5x certification contamination	No qualification required
>/=detect limit	<detect limit<="" td=""><td>Detection limit "U"</td></detect>	Detection limit "U"
>/=detect limit	<pre>&gt;/=detect limit and <!--= 5x certification contamination level</pre--></pre>	5x certification contamination "U"
<detect limit<="" td=""><td><pre><!--=detection limit and -->/= detection limit</pre></td><td>No qualification</td></detect>	<pre><!--=detection limit and -->/= detection limit</pre>	No qualification

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

Method and Canister blanks were determined to be free of any contamination.

\*Acetone and/or Methylene Chloride was detected in many samples including the Indoor/Outdoor Air samples. 2-Butanone was also detected in the majority of samples. The end user should proceed with caution when making decisions based on Acetone, Methylene Chloride and 2-Butanone detections since these are common solvents utilized in the organic extraction laboratory.

- B) Field Blank Contamination:Field Blank analysis was not required.
- C) Trip Blank Contamination: Trip Blank analysis was not required.

#### 1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

#### 1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds can be >0.01 without qualification: 2-Butanone Carbon Disulfide Chloroethane 1,2-Dibromoethane 1,2-Dichloropropane 1,4-Dioxane 1,2-Dibromo-3-chloropropane Methylene Chloride

All the response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) [or >/=0.01 for the 9 compounds above] and remaining analytes, for the initial and continuing calibrations.

 B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):
 Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor

of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Acceptable ICV was analyzed.

Initial Calibrations: The initial calibrations provided and the %RSD was within acceptable limits (30%) and (40%) for poor responders for all requested target compounds. Initial calibration verification standard also met QC requirements.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) and (40%) for poor responders for all reported compounds.

#### **1.8 Internal Standards**

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to +40%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to +40%) range of the associated standard, all positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all analysis pertaining to this data set as compared to the continuing calibration.

#### 1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

#### 1.10 Tentatively Identified Compounds (TICs)

TICs were not required for this project. When submitted, the identification must be considered tentative (both quantitative and qualitative) due to the lack of required compound specific response factors. Consequently, all concentrations should be considered estimated, "J" and because of the qualitative uncertainty should be qualified, "N" where an identification has been made.

TICs were not required with this data set.

#### 1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis are acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

Sample results have been presented in ug/m3 as well as ppbv on the laboratory reporting forms. Samples were analyzed undiluted at 250mls as notated on the Form I's except for SSV-6 which was analyzed at 187mls due to pressurization of the canister with nitrogen upon receipt.Indoor/Outside Air samples were also analyzed by SIM (Selective Ion Monitoring) for select chlorinated compounds to achieve required NYSDOH action levels.

**1.12** Overall System Performance

GC/MS analytical methodology was acceptable for this analysis. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature Reviewer's Date 04/19/2019

Appendix A Chain of Custody

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AIR A CHAIN OF CLISTODY	insfield, MA 02048	FAX: 608-822-3288	ATCH Conculturk	ants.	NY.	716 8841	Carich in Le Con	Target Compound List: 1	Sample ID	558-1	SCV-2	SSV-3	H-155	Sev-S	· SSV-6	55V-7	8-155	8-172	SV-10	MATRIX CODES		X	1 N 1
APHA	320 Forbes Blvd, Ma	TEL: 508-822-9300 Client Information	Client: CA A	Address: 17 N	Pleinsten	Phone: S/Lo S	Fax Email: Houn C	Project-Specific	ALPHA Lab ID (Lab Use Only)	09348. OI	é	ଟ	do	8	8	to to	30	8	01	*SAMPLE			Form No: 101-02 Rev. (25-5) Page 18 of 1400

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AIR AN APHA CHAIN OF CUSTODY	20 Forbes Blvd, Mansfield, MA 02048	EL: 508-822-9300 FAX: 508-822-3288 Hent Information	lient	idress: 0	J. W.	hone:	ar C	mali:	These samples have been previously analyzed by Alpha Other Project Specific Requirements/Comm	roject-specific larget compound list: I	AII	ALPHA Lab ID (Lab Use Only). Sample ID	1348. 11 TA-1	e-VI a	B 24-3	N IA-H	IS IT S	16 14-60	17 17-7	18 IA-8	19 IA-9	20 IA-10	*SAMPLE MATRIX CODES SV OB	E.	1 Dea	mi No: 101-02 Rev (25-Sep-15)



# Sample Delivery Group Summary

Alpha Job Number: L1909348Account Name: CA RICH CONSULTANTS, INC.Project Number:Project Name: VIA VERDE	Received Reviewer	:11-MAR-2019 :Chris Anderson								
Delivery Information Samples Delivered By: Alpha Courier										
Chain of Custody : Present										
Cooler Seal/Seal# Preservation N/A Absent/	Temperature(°C)	Additional Information								
Condition Information										
1) All samples on COC received?	YES									
2) Extra samples received?	NO									
3) Are there any sample container discrepancies?	NO									
<ol> <li>Are there any discrepancies between sample labels &amp; COC L1909348-02: ssv-2 vs. ssv-1</li> </ol>	?? YES									
5) Are samples in appropriate containers for requested analys	is? YES									
6) Are samples properly preserved for requested analysis?	YES									
7) Are samples within holding time for requested analysis?	YES									
8) All sampling equipment returned? YES										
Volatile Organics/VPH										
1) Reagent Water Vials Frozen by Client?	NA									

Appendix B Case Narrative

# Project Name:VIA VERDEProject Number:Not Specified

 Lab Number:
 L1909348

 Report Date:
 03/20/19

#### **Case Narrative**

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name:VIA VERDEProject Number:Not Specified

 Lab Number:
 L1909348

 Report Date:
 03/20/19

#### **Case Narrative (continued)**

#### Volatile Organics in Air

Canisters were released from the laboratory on March 4, 2019. The canister certification results are provided as an addendum.

L1909348-06 : The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

#### Sample Receipt

The canister ID number for the sample designated IA-7 (L1909348-17) is listed on the CoC as 1699 but should be 1669.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Christoph J Culevon

Report Date: 03/20/19

Title: Technical Director/Representative

Appendix C Data Summary Form I's With Qualifications

Client: CA RICH CONSProject Name: VIA VERDELab ID: L1909348-01Client ID: SSV-1Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165224Sample Amount: 250 ml		SULTANTS	s, INC.		Lab Nu Projec Date C Date F Date A Dilution Analys Instrum GC Co	umber t Number collected Received n Factor t n Factor t nent ID olumn ug/m3	<ul> <li>L1909348</li> <li>03/08/19 11:23</li> <li>03/11/19</li> <li>03/19/19 18:52</li> <li>1</li> <li>EW</li> <li>AIRPIANO1</li> <li>RTX-1</li> </ul>			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier		
75-71-8	Dichlorodifluoromethane	0.295	0.200	He:	1.46	0.989	(***)			
79-01-3			0,200	-Hemmin - Hemmin		0.413	000			
76-14-2	Freon-114		0.200	**		1.40	-			
75-01-4		ND	0.200		ND	0.511	11.02			
106-99-0	1,3-Butadiene	ND	0.200	**	ND	0.442		U		
74-83-9	Bromomethane	ND	0.200		ND	0.777		U		
75-00-3	Chloroethane	ND	0.200	**	ND	0.528	•	U		
64-17-5	Ethanol	8,98	5,00		16.9	9.42	ेर्ततः	NEM		
593-60-2	Vinyl bromide	ND	0.200		ND	0.874		U		
67-64-1	Acetone	2.53	1.00	<u>8169</u>	6.01	2.38	-			
75-69-4	Trichlorofluoromethane	0.234	0.200	•	1.31	1.12	-			
67-63-0	Isopropanol	6.10	0.500	<b>55</b> 5	15.0	1.23				
75-35-4	1,1-Dichloroethene	ND	0.200		ND	0.793		U		
75-65-0	Tertiary butyl Alcohol	ND	0,500		ND	1.52	845-2	U		
75-09-2	Methylene chloride	ND	0.500	-	ND	1.74		U		
107-05-1	3-Chloropropene	ND	0.200		ND	0.626	and:	U		
75-15-0	Carbon disulfide	ND	0.200	( ##)}	ND	0.623		U		
76-13-1	Freon-113	ND	0.200	0000	ND	1.53		U		
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793	inter i	U		
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809		U		
1634-04-4	Methyl tert butyl ether	ND	0.200	0 <b>44</b> 5	ND	0.721		U		
78-93-3	2-Butanone	1.70	0.500	1	5.01	1.47	008			
156-59-2	cis-1,2-Dichloroethene	ND	0.200	, <del>-</del> ,	ND	0.793		U		
141-78-6	Ethyl Acetate	4.49	0.500	5. <b></b>	16.2	1.80				
67-66-3	Chloroform	ND	0.200	( <b>111</b>	ND	0.977	-	U		
109-99-9	Tetrahvdrofuran	3,15	0.500	94	9.29	1.47				



Clieni Proje Lab II Clieni Samp Samp Analy Lab F Samp	SULTANTS, INC.			Lab N Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber It Number Collected Received Analyzed In Factor In Factor In Factor In Market In Jun Market In	: L1909348 : : 03/08/19 11:23 : 03/11/19 : 03/19/19 18:52 : 1 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809	-	U
110-54-3	n-Hexane	ND	0.200	•	ND	0.705		U
71-55-6	1,1,1-Trichloroethane	ND	0.200		ND	1.09	•	U
71-43-2	Benzene	5.64	0.200		18.0	0.639		
56-23-5	Carbon tetrachloride	ND	0.200	<b>22</b> 3	ND	1.26		U
110-82-7	Cyclohexane	ND	0.200	-	ND	0.688		U
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924		U
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34	(***)	U
123-91-1	1,4-Dioxane	ND	0.200	1429	ND	0.721	3 <u>9</u> 20	U
79-01-6	Trichloroethene	ND	0.200	(e)	ND	1.07		U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	3000	ND	0.934	3 <b>7</b> 3	U
142-82-5	Heptane	ND	0.200	:( <b>***</b> );	ND	0.820		U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	- <b>-</b>	ND	0.908	4 <u>4</u> 15	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	(H)	ND	2.05	**	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	3 <del>50</del> 6	ND	0.908		U
79-00-5	1,1,2-Trichloroethane	ND	0.200	(***)	ND	1.09		U
108-88-3	Toluene	3.45	0.200	11	13.0	0.754	2007) 1990)	
591-78-6	2-Hexanone	ND	0.200		ND	0.820		U
124-48-1	Dibromochloromethane	ND	0.200	<del></del>	ND	1.70	) <del></del> )	U
106-93-4	1,2-Dibromoethane	ND	0.200	/ <b>1</b> 1	ND	1.54		U
127-18-4	Tetrachloroethene	ND	0.200	144	ND	1.36	-	U
108-90-7	Chlorobenzene	5.58	0.200	-	25.7	0.921		
100-41-4	Ethylbenzene	ND	0.200		ND	0.869		U
179601-23-1	p/m-Xylene	1.02	0.400	-	4.43	1.74		
75-25-2	Bromoform	ND	0.200	3 <del>-</del>	ND	2.07		U
100-42-5	Styrene	ND	0.200		ND	0.852		U



Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-01Client ID: SSV-1Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165224Sample Amount: 250 ml		SULTANTS, INC.			Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column ug/m3		: L1909348 : : 03/08/19 11:23 : 03/11/19 : 03/19/19 18:52 : 1 : EW : AIRPIANO1 : RTX-1			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5	1,1,2,2-Tetrac	chloroethane	ND	0.200		ND	1.37		U	
95-47-6	o-Xylene		ND	0.200	-	ND	0.869		U	
622-96-8	4-Ethyltoluen	9	ND	0,200		ND	0,983		U	
108-67-8	1,3,5-Trimeth	ylbenzene	ND	0.200	,ee.	ND	0.983	:55	U	
95-63-6	1,2,4-Trimethy	ylbenzene	0.370	0.200		1.82	0.983	1998)		
100-44-7	Benzyl chlorid	le	ND	0.200		ND	1.04	-	U	
541-73-1	1,3-Dichlorob	enzene	ND	0.200		ND	1.20		U	
106-46-7	1,4-Dichlorob	enzene	0.770	0.200		4.63	1.20	( <del>***</del> )		
95-50-1	1,2-Dichlorob	enzene	0.476	0.200	##:	2.86	1.20	3 <b>414</b> 3		
120-82-1	1,2,4-Trichlor	obenzene	ND	0.200	<u>.</u>	ND	1.48	1222	U	
87-68-3	Hexachlorobu	tadiene	ND	0.200	×	ND	2.13	.117	U	



Client: CA RICH CONSProject Name: VIA VERDELab ID: L1909348-02Client ID: SSV-2Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165225Sample Amount: 250 ml		SULTANTS, INC.			Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L1909348 : 03/08/19 11:20 03/11/19 03/19/19 19:24 1 EW AIRPIANO1 RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.313	0.200	-	1.55	0.989			
74-87-3	Chloromethane	ND	0.200		ND	0.413		U	
76-14-2	Freon-114	ND	0.200		ND	1.40	ंग	U	
75-01-4	Vinyl chloride	ND	0.200		ND	0.511	-	U	
106-99-0	1,3-Butadiene	ND	0.200	**	ND	0.442		U	
74-83-9	Bromomethane	ND	0.200		ND	0.777	94	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethanol	8.68	5.00		16.4	9.42			
593-60-2	Vinyl bromide	ND	0.200		ND	0.874		U	
67-64-1	Acetone	2.97	1.00	÷	7.06	2.38	<b>.</b>		
75-69-4	Trichlorofluoromethane	0.265	0.200		1.49	1.12			
67-63-0	Isopropanol	6.41	0.500		15.8	1.23			
75-35-4	1,1-Dichloroethene	ND	0.200	225	ND	0.793		U	
75-65-0	Tertiary butyl Alcohol	ND	0.500	×	ND	1.52		U	
75-09-2	Methylene chloride	ND	0.500	and i	ND	1.74		U	
107-05-1	3-Chloropropene	ND	0.200	-	ND	0.626		U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623		U	
76-13-1	Freon-113	ND	0,200		ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793	S <del>an</del> .	U	
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809	. <del></del>	U	
1634-04-4	Methyl tert butyl ether	ND	0.200	-	ND	0.721	-	U	
78-93-3	2-Butanone	1.81	0.500		5.34	1.47			
156-59-2	cis-1,2-Dichloroethene	ND	0.200		ND	0.793		U	
141-78-6	Ethyl Acetate	5.14	0.500		18.5	1.80	-		
67-66-3	Chloroform	ND	0.200	-	ND	0.977	150	U	
109-99-9	Tetrahydrofuran	3.20	0.500		9.44	1,47	-		


Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-02 Client ID : SSV-2 Sample Location : Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R165225 Sample Amount : 250 ml		ISULTANTS	S, INC. ppbV		Lab No Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st ment ID plumn ug/m3	: L1909348 : : 03/08/19 11:20 : 03/11/19 : 03/19/19 19:24 : 1 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200	#2	ND	0.809		U	
110-54-3	n-Hexane	ND	0.200	÷.	ND	0.705		U	
71-55-6	1,1,1-Trichloroethane	ND	0,200	11-5	ND	1.09		U	-
71-43-2	Benzene	5.80	0.200	••	18.5	0.639			
56-23-5	Carbon tetrachloride	ND	0.200	-	ND	1.26		U	
110-82-7	Cyclohexane	ND	0.200		ND	0.688		U	
78-87-5	1,2-Dichloropropane	ND	0.200	ms	ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34		U	
123-91-1	1,4-Dioxane	ND	0.200	<b>24</b> 5	ND	0.721		U	
79-01-6	Trichloroethene	ND	0.200	-	ND	1.07		U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934	-	U	
142-82-5	Heptane	ND	0.200		ND	0.820		U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	- <u>48</u> 9	ND	0.908	<b>11</b> 21	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	$(\mathbf{H})$	ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	2.558	ND	0.908		U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	()	ND	1.09		U	
108-88-3	Toluene	2,24	0,200	5440	8.44	0.754			
591-78-6	2-Hexanone	ND	0.200	<b></b>	ND	0.820		U	
124-48-1	Dibromochloromethane	ND	0.200	(	ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200	0000	ND	1.54		U	
127-18-4	Tetrachloroethene	0.948	0.200	(a)	6.43	1.36	<u>1115</u>		
108-90-7	Chlorobenzene	4.94	0.200	( <del></del> )	22,8	0.921			
100-41-4	Ethylbenzene	ND	0.200	(( <del>111</del> -)	ND	0.869	ne:	U	
179601-23-1	p/m-Xylene	0.907	0.400	84457	3.94	1.74	<b>9</b> 86		
75-25-2	Bromoform	ND	0.200	11 <u>212</u>	ND	2.07	962 2	U	
100-42-5	Styrene	ND	0.200		ND	0.852	Ξ.	U	



Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-02Client ID: SSV-2Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165225Sample Amount: 250 ml		ppbV			Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L1909348 : : 03/08/19 11:20 : 03/11/19 : 03/19/19 19:24 : 1 : EW : AIRPIANO1 : RTX-1			
CAS NO	). Parameter		Besults	BL	MDL	Results	BI	MDI	Qualifier	
79-34-5	1,1,2,2-Tetra	chloroethane	ND	0.200	(ee)	ND	1.37		U	
95-47-6	o-Xylene		ND	0.200		ND	0.869	يندر والمارين	U	
622-96-8	3 4-Ethyltoluer	ne	ND	0.200		ND	0.983		U	
108-67-8	3 1,3,5-Trimet	hylbenzene	ND	0.200		ND	0.983	. <del>- 1</del>	U	-16
95-63-6	1,2,4-Trimet	hylbenzene	0.354	0.200		1.74	0.983			
100-44-7	7 Benzyl chlori	ide	ND	0.200	-	ND	1.04		U	
541-73-1	1,3-Dichlorol	penzene	ND	0.200		ND	1.20	- 11	U	
106-46-7	7 1,4-Dichlorol	oenzene	0.685	0.200		4.12	1.20			
95-50-1	1,2-Dichlorol	penzene	0.419	0.200	444	2.52	1.20	8		
120-82-1	1,2,4-Trichlo	robenzene	ND	0.200	-	ND	1.48		U	
87-68-3	Hexachlorob	utadiene	ND	0.200		ND	2.13		U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-03 Client ID : SSV-3 Sample Location : Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R165226 Sample Amount : 250 ml CAS NO. Parameter		SULTANTS	s, INC.		Lab No Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: L19 : 03/0 : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 1 : EW : AIR : RT)	09348 08/19 11:21 11/19 19/19 19:57 PIANO1 K-1
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.349	0.200	940	1.73	0.989	-	
74-87-3	Chloromethane	ND	0,200	( <b>1</b>	ND	0.413	-	U
76-14-2	Freon-114	ND	0.200		ND	1.40	-	U
75-01-4	Vinyl chloride	ND	0.200		ND	0.511		U
106-99-0	1,3-Butadiene	ND	0.200	144) 	ND	0.442	-	U
74-83-9	Bromomethane	ND	0.200		ND	0.777	•	U
75-00-3	Chloroethane	ND	0.200		ND	0.528	-	U
64-17-5	Ethanol	11.6	5.00	-	21,9	9.42	-	
593-60-2	Vinyl bromide	ND	0.200	-	ND	0.874	-	U
67-64-1	Acetone	2.24	1.00		5.32	2.38	*	
75-69-4	Trichlorofluoromethane	0.300	0.200	50 S	1.69	1.12	5.C	
67-63-0	Isopropanol	4.96	0.500	**	12.2	1.23	**	
75-35-4	1,1-Dichloroethene	ND	0.200	45	ND	0.793	242	U
75-65-0	Tertiary butyl Alcohol	ND	0.500		NÐ	1.52		U
75-09-2	Methylene chloride	0.638	0.500	<b>85</b> 3	2.22	1.74	: <del></del> :	
107-05-1	3-Chloropropene	ND	0.200	HE:	ND	0.626		U
75-15-0	Carbon disulfide	ND	0.200		ND	0.623	1011- 2 <b>44</b> 2	U
76-13-1	Freon-113	ND	0.200		ND	1.53		U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	<del></del>	ND	0.793	( <del>11</del> 1)	U
75-34-3	1,1-Dichloroethane	ND	0.200	## 7	ND	0.809	(***)	U
1634-04-4	Methyl tert butyl ether	ND	0.200	<u></u>	ND	0.721	2007	U
78-93-3	2-Butanone	1.23	0.500	-	3.63	1.47		
156-59-2	cis-1,2-Dichloroethene	ND	0.200		ND	0.793		U
141-78-6	Ethyl Acetate	2.30	0.500		8.29	1.80	<b>200</b>	
67-66-3	Chloroform	0.211	0.200		1.03	0.977		
109-99-9	Tetrahydrofuran	1.77	0.500		5.22	1.47	-	



Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-03Client ID: SSV-3Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165226Sample Amount: 250 ml		ONSULTANTS 3 PR	s, INC,		Lab Ne Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: L1909348 : : 03/08/19 11:21 : 03/11/19 : 03/19/19 19:57 : 1 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809		U	
110-54-3	n-Hexane	ND	0.200	-	ND	0.705	-	U	
71-55-6	1,1,1-Trichloroethane	ND	0.200	<u></u>	ND	1.09		U	
71-43-2	Benzene	3.83	0.200	<b>77</b> (	12.2	0.639	-		
56-23-5	Carbon tetrachloride	ND	0.200	<del></del> :	ND	1.26		U	
110-82-7	Cyclohexane	ND	0.200	987 (	ND	0.688	-	U	
78-87-5	1,2-Dichloropropane	ND	0.200	<b>2</b>	ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200	<u></u>	ND	1.34		U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721		U	
79-01-6	Trichloroethene	ND	0.200		ND	1.07	3443	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934		U	
142-82-5	Heptane	ND	0.200		ND	0.820	305	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908		U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	215	ND	2.05	-	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908		U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	<b></b>	ND	1.09	( <b></b> )	U	
108-88-3	Toluene	43.6	0.200	***>:	164	0.754			
591-78-6	2-Hexanone	ND	0.200	-	ND	0.820		U	
124-48-1	Dibromochloromethane	ND	0.200	R	ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200	<b>18</b> 8	ND	1.54	-	U	
127-18-4	Tetrachloroethene	ND	0.200		ND	1.36		U	
108-90-7	Chlorobenzene	7.68	0.200	1440	35.4	0.921			
100-41-4	Ethylbenzene	ND	0.200	-	ND	0.869		U	
179601-23-1	p/m-Xylene	1,44	0.400		6.25	1.74	<b>31</b> 22		
75-25-2	Bromoform	ND	0.200	( <b>199</b> 3)	ND	2.07		U	
100-42-5	Styrene	ND	0.200	0.0000	ND	0.852	444	U	



Sample LocationSolvesDate Necessed03/11/Sample Matrix: SOIL_VAPORDilution Factor: 1Analytical Method: 48,TO-15Analyst: EWLab File ID: R165226Instrument ID: AIRPLSample Amount: 250 mlGC Column: RTX-1	ANO1 I
CAS NO Parameter Results BI MDI Results BI MDI	Qualifier
79-34-5 1,1,2,2-Tetrachloroethane ND 0.200 ND 1.37	U
95-47-6 o-Xylene 0.235 0.200 1.02 0.869	
622-96-8 4-Ethyltoluene ND 0.200 ND 0.983	U
108-67-8 1,3,5-Trimethytbenzene 0.212 0.200 1.04 0.983	
95-63-6 1,2,4-Trimethylbenzene 0.676 0.200 3.32 0.983	
100-44-7 Benzyl chloride ND 0.200 ND 1.04	U
541-73-1 1,3-Dichlorobenzene ND 0.200 ND 1.20	U
106-46-7 1,4-Dichlorobenzene 1.14 0.200 6.85 1.20	
95-50-1 1,2-Dichlorobenzene 0.692 0.200 - 4.16 1.20 -	
120-82-1 1,2,4-Trichlorobenzene ND 0.200 ND 1.48	U
87-68-3 Hexachlorobutadiene ND 0.200 ND 2.13	U



Client Projec Lab II Client Samp Samp Analy Lab F Samp	: CA RICH CON t Name : VIA VERDE D : L1909348-04 ID : SSV-4 le Location : le Matrix : SOIL_VAPOR tical Method : 48,TO-15 ile ID : R165227 le Amount : 250 ml	SULTANTS	S, INC. ppbV		Lab N Project Date C Date F Date A Dilutio Analys Instrui GC Co	09348 08/19 11:31 11/19 19/19 20:29 PIANO1 X-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.317	0.200	HE .	1.57	0.989		11:11
74-87-3	Chloromethane	ND	0.200	429 10.48.88.1.1.1	ND	0.413		U
76-14-2	Freon-114	ND	0.200		ND	1.40	-	U
75-01-4	Vinyl chloride	ND	0.200	•••	ND	0.511		U
106-99-0	1,3-Butadiene	ND	0.200	<b></b> :	ND	0.442		U
74-83-9	Bromomethane	ND	0.200	<b>111</b> 0	ND	0.777	22	U
75-00-3	Chloroethane	ND	0.200		ND	0.528		U
64-17-5	Ethanol	8.87	5.00	<del>HI</del> S:	16.7	9.42	i <del>nit</del> .	
593-60-2	Vinyl bromide	ND	0.200	нт:	ND	0.874		U
67-64-1	Acetone	2.75	1.00	-	6.53	2.38	2	
75-69-4	Trichlorofluoromethane	0.340	0.200	-	1.91	1.12		
67-63-0	Isopropanol	5,35	0.500	-	13.2	1.23	-	
75-35-4	1,1-Dichloroethene	ND	0.200	<b>11</b> 27	ND	0.793	-	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	۳	ND	1.52		U
75-09-2	Methylene chloride	ND	0.500	77.0	ND	1.74		U
107-05-1	3-Chloropropene	ND	0.200		ND	0.626		U
75-15-0	Carbon disulfide	ND	0.200	- <b>1</b> 119	ND	0.623	44	U
76-13-1	Freon-113	ND	0.200	(8)	ND	1.53	¥.	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	1 <b></b> 8	ND	0.793		U
75-34-3	1,1-Dichloroethane	ND	0.200	:(***))	ND	0.809	(***)	U
1634-04-4	Methyl tert butyl ether	ND	0.200	1441	ND	0.721	1942 N I∰T	U
78-93-3	2-Butanone	1.87	0.500	-	5.52	1.47		
156-59-2	cis-1,2-Dichloroethene	ND	0.200		ND	0.793		U
141-78-6	Ethyl Acetate	5.05	0.500	(mm))	18.2	1.80		
67-66-3	Chloroform	1.13	0.200	2 <b>4</b> 12	5.52	0.977	200	
109-99-9	Tetrahydrofuran	3.13	0.500	-	9.23	1,47		



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-04 Client ID : SSV-4 Sample Location : Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R165227 Sample Amount : 250 ml CAS NO. Parameter		SULTANTS	s, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instrur GC Co	09348 )8/19 11:31  1/19  9/19 20:29 PIANO1 (-1			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809		U	
110-54-3	n-Hexane	ND	0.200		ND	0.705	1	U	
71-55-6	1,1,1-Trichloroethane	ND	0.200	( <b>1</b> 1)	ND	1.09	3-07	U	
71-43-2	Benzene	5.83	0.200		18.6	0.639	**		
56-23-5	Carbon tetrachloride	ND	0.200		ND	1.26	( <del>11)</del>	U	
110-82-7	Cyclohexane	ND	0.200	-	ND	0.688	-	U	
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924	-	U	
75-27-4	Bromodichloromethane	ND	0.200	<del></del> :	ND	1.34		U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721	244	U	
79-01-6	Trichloroethene	ND	0.200		ND	1.07		U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	<b>75</b> 1	ND	0.934		U	
142-82-5	Heptane	ND	0.200		ND	0.820		U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	420	ND	0.908	122	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	æ	ND	2.05	æ	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	<del>112</del> 5	ND	0.908	: <del></del> .	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	-	ND	1.09	100	U	
108-88-3	Toluene	2.13	0.200	345) 1	8.03	0.754			
591-78-6	2-Hexanone	ND	0.200		ND	0.820		U	
124-48-1	Dibromochloromethane	ND	0.200	-	ND	1.70	-	U	
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		U	
127-18-4	Tetrachloroethene	0.416	0.200		2.82	1.36	1002		
108-90-7	Chlorobenzene	5,13	0.200		23,6	0.921			
100-41-4	Ethylbenzene	ND	0.200	<b>***</b> 1:	ND	0.869		U	
179601-23-1	p/m-Xylene	1.10	0.400		4.78	1.74	-		
75-25-2	Bromoform	ND	0.200	<u>112</u> 0	ND	2.07	-	U	
100-42-5	Styrene	ND	0.200	π.,	ND	0.852		U	
-									



Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-04Client ID: SSV-4Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165227Sample Amount: 250 ml		SULTANTS, INC.			Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L1909348 : : 03/08/19 11:31 : 03/11/19 : 03/19/19 20:29 : 1 : EW : AIRPIANO1 : RTX-1			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5	1,1,2,2-Tetra	Ichloroethane	ND	0.200		ND	1.37		U	
95-47-6	o-Xylene		ND	0.200		ND	0.869	-	U	
622-96-8	4-Ethyltoluer	ıe	ND	0.200		ND	0.983	i	U	
108-67-8	1,3,5-Trimet	hylbenzene	ND	0.200		ND	0.983		U	
95-63-6	1,2,4-Trimet	hylbenzene	0.376	0.200	(##C	1.85	0.983	:22		
100-44-7	Benzyl chlori	ide	ND	0.200	÷.	ND	1.04		U	
541-73-1	1,3-Dichlorol	benzene	ND	0.200		ND	1.20	ः सम	U	
106-46-7	1,4-Dichlorol	benzene	0.627	0.200		3.77	1.20	( <b>1999</b> )		
95-50-1	1,2-Dichlorol	penzene	0.358	0.200		2.15	1.20	122		
120-82-1	1,2,4-Trichlo	robenzene	ND	0.200	Ħ	ND	1.48	-	U	
87-68-3	Hexachlorob	utadiene	ND	0.200	an a	ND	2.13		U	



Clier	nt : CA RICH CON	ISULTANTS	S, INC.		Lab Ni	ımber	: L19	09348	
Proje	ect Name : VIA VERDE				Projec				
Lab	ID : L1909348-05				Date C	ollected	: 03/0	08/19 12:04	
Clier	nt ID : SSV-5				Date H	eceived	: 03/1	11/19	
Sam	ple Location :				Date A		: 03/1	19/19 21:02	
Sam	ble Mathx : SOIL_VAPOR				Dilutio		: 1		
Anai	Sila ID				Inctains	nont ID		DIANO1	
Sam	nle Amount : 250 mi				GC Co	lumn	BT)	(.1	
Jam			nnhV		40.00	ua/m3	00 HHZ	<b>x</b> -1	
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0 280	0 200	<b>11</b> .7	1 38	0 989 0			
74-87-3	Chloromethane	ND	0.200		ND	0.413		U	
76-14-2	Freor-114	ND	0.200		ND	1.40		U	
75-01-4	Vinyl chloride	ND	0.200		ND	0.511	-	U	
106-99-0	1,3-Butadiene	ND	0.200		ND	0.442		U	
74-83-9	Bromomethane	ND	0.200	<b>1.1</b> 5	ND	0.777		U	
75-00-3	Chloroethane	ND	0.200	-	ND	0.528		U	
64-17-5	Ethanol	21.6	5.00	222)	40.7	9.42			
593-60-2	Vinyl bromide	ND	0.200	<b>#</b>	ND	0.874		U	
67-64-1	Acetone	4.51	1.00	***	10.7	2.38			
75-69-4	Trichlorofluoromethane	0.474	0.200	<del></del> 1	2.66	1.12	(***)		
67-63-0	Isopropanol	8.24	0.500	1120 	20.3	1.23			
75-35-4	1,1-Dichloroethene	ND	0.200	•	ND	0.793	*	U	
75-65-0	Tertiary butyl Alcohol	ND	0.500	<del>≣</del> 2	ND	1.52		U	
75-09-2	Methylene chloride	ND	0.500		ND	1.74		U	
107-05-1	3-Chloropropene	ND	0.200	## 1	ND	0.626	44	U	
75-15-0	Carbon disulfide	ND	0.200	•	ND	0.623		U	
76-13-1	Freon-113	ND	0.200		ND	1.53	<b></b> i	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809		U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721	-	U	
78-93-3	2-Butanone	2.87	0.500	<del></del>	8.46	1.47			
156-59-2	cis-1,2-Dichloroethene	ND	0.200	· •••	ND	0.793	**:	U	
141-78-6	Ethyl Acetate	9.24	0.500	1 <b></b>	33.3	1.80	-		
67-66-3	Chloroform	0.837	0.200	9.557	4.09	0.977			
109-99-9	Tetrahydrofuran	5.72	0.500	8 <del>00</del> 6	16.9	1.47	<del>8</del> 2		



Client: CA RICH CONSProject Name: VIA VERDELab ID: L1909348-05Client ID: SSV-5Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165228Sample Amount: 250 ml		ISULTANTS	S, INC.		Lab Ne Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID blumn	: L19 : 03/ : 03/ : 03/ : 03/ : 03/ : 1 : EW : AIR : RT2		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200	-	ND	0.809	-	U	
110-54-3	n-Hexane	ND	0.200	••	ND	0.705	-	U	
71-55-6	1,1,1-Trichloroethane	ND	0.200		ND	1.09	5 <del>51</del>	U	
71-43-2	Benzene	10.2	0.200	<b>11</b>	32.6	0.639			
56-23-5	Carbon tetrachloride	ND	0.200	-	ND	1.26	-	U	
110-82-7	Cyclohexane	ND	0.200	ne.	ND	0.688	•	U	
78-87-5	1,2-Dichloropropane	ND	0.200	<del>***</del> )	ND	0.924	:==	U	
75-27-4	Bromodichloromethane	NÐ	0.200		ND	1.34	1441	U	
123-91-1	1,4-Dioxane	0.216	0.200	<u></u>	0.778	0.721	-		
79-01-6	Trichloroethene	ND	0.200		ND	1.07	2 <b>737</b> 3	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934		U	
142-82-5	Heptane	ND	0.200	9 <b>2</b> 3	ND	0.820	-	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	-	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	<b>1</b> .77	ND	2.05	-77:	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908	-	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	Her:	ND	1.09	-	U	
108-88-3	Toluene	10.0	0.200		37.7	0.754			
591-78-6	2-Hexanone	ND	0.200		ND	0.820		U	
124-48-1	Dibromochloromethane	ND	0.200		ND	1.70	(	U	
106-93-4	1,2-Dibromoethane	ND	0.200	<b></b>	ND	1.54	944) -	U	
127-18-4	Tetrachloroethene	0.693	0.200	-	4.70	1.36	-		
108-90-7	Chlorobenzene	8.65	0.200	<b></b> 2	39.8	0.921			
100-41-4	Ethylbenzene	ND	0,200		ND	0.869	-	U	
179601-23-1	p/m-Xylene	1.74	0.400	9 <u>44</u> 9	7.56	1.74			
75-25-2	Bromoform	ND	0.200	(#)	ND	2.07		U	
100-42-5	Styrene	ND	0.200		ND	0.852	-	U	



CAS NO.    Parameter    Results    RL    MDL    Results    RL    MDL    Qualifier      79-34-5    1,1,2,2-Tetrachloroethane    ND    0.200     ND    1.37     U      95-47-6    o-Xylene    0.295    0.200     1.28    0.869       622-96-8    4-Ethyltoluene    ND    0.200     ND    0.983     U      108-67-8    1,3,5-Trimethylbenzene    0.261    0.200     1.28    0.983       95-63-6    1,2,4-Trimethylbenzene    0.741    0.200     3.64    0.983       100-44-7    Benzyl chloride    ND    0.200     ND    1.04     U      541-73-1    1,3-Dichlorobenzene    ND    0.200     ND    1.20     U      106-46-7    1,4-Dichlorobenzene    0.869    0.200     5.22    1.20       95-50-1    1,2-Dichlorobenzene <th colspan="2">Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-05Client ID: SSV-5Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165228Sample Amount: 250 ml</th> <th colspan="3">ppbV</th> <th colspan="2">Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column</th> <th colspan="2">: L1909348 : : 03/08/19 12:04 : 03/11/19 : 03/19/19 21:02 : 1 : EW : AIRPIANO1 : RTX-1</th> <th></th>	Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-05Client ID: SSV-5Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165228Sample Amount: 250 ml		ppbV			Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L1909348 : : 03/08/19 12:04 : 03/11/19 : 03/19/19 21:02 : 1 : EW : AIRPIANO1 : RTX-1			
79-34-5  1,1,2,2-Tetrachloroethane  ND  0.200   ND  1.37   U    95-47-6  o-Xylene  0.295  0.200   1.28  0.869      622-96-8  4-Ethyltoluene  ND  0.200   ND  0.983   U    108-67-8  1,3,5-Trimethylbenzene  0.261  0.200   1.28  0.983   U    95-63-6  1,2,4-Trimethylbenzene  0.741  0.200   3.64  0.983   U    100-44-7  Benzyl chloride  ND  0.200   ND  1.04   U    541-73-1  1,3-Dichlorobenzene  0.869  0.200   ND  1.04   U    541-73-1  1,3-Dichlorobenzene  ND  0.200   ND  1.20   U    106-46-7  1,4-Dichlorobenzene  0.869  0.200   5.22  1.20     95-50-1  1,2-Dichlorobenzene  0.543  0.200   3.26  1.20<	CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
95-47-6  o-Xylene  0.295  0.200   1.28  0.869     622-96-8  4-Ethyltokuene  ND  0.200   ND  0.983   U    108-67-8  1,3,5-Trimethylbenzene  0.261  0.200   1.28  0.983   U    95-63-6  1,2,4-Trimethylbenzene  0.741  0.200   3.64  0.983   U    100-44-7  Benzyl chloride  ND  0.200   ND  1.04   U    541-73-1  1,3-Dichlorobenzene  ND  0.200   ND  1.20   U    106-46-7  1,4-Dichlorobenzene  0.869  0.200   5.22  1.20     95-50-1  1,2-Dichlorobenzene  0.543  0.200   3.26  1.20	79-34-5	1,1,2,2-Tetra	chloroethane	ND	0.200		ND	1.37	-11	U	
622-96-8  4-Ethyltoluene  ND  0.200   ND  0.983   U    108-67-8  1,3,5-Trimethylbenzene  0.261  0.200   1.28  0.983      95-63-6  1,2,4-Trimethylbenzene  0.741  0.200   3.64  0.983      100-44-7  Benzyl chloride  ND  0.200   ND  1.04   U    541-73-1  1,3-Dichlorobenzene  ND  0.200   ND  1.20   U    106-46-7  1,4-Dichlorobenzene  0.869  0.200   5.22  1.20   U    95-50-1  1,2-Dichlorobenzene  0.543  0.200   3.26  1.20   U	95-47-6	o-Xylene		0.295	0.200	-	1.28	0.869	•		
108-67-8  1,3,5-Trimethylbenzene  0.261  0.200   1.28  0.983     95-63-6  1,2,4-Trimethylbenzene  0.741  0.200   3.64  0.983     100-44-7  Benzyl chloride  ND  0.200   ND  1.04   U    541-73-1  1,3-Dichlorobenzene  ND  0.200   ND  1.20   U    106-46-7  1,4-Dichlorobenzene  0.869  0.200   5.22  1.20     95-50-1  1,2-Dichlorobenzene  0.543  0.200   3.26  1.20	622-96-8	4-Ethyltoluer	1e	ND	0.200		ND	0.983	1552	U	
95-63-6  1,2,4-Trimethylbenzene  0.741  0.200   3.64  0.983     100-44-7  Benzyl chloride  ND  0.200   ND  1.04   U    541-73-1  1,3-Dichlorobenzene  ND  0.200   ND  1.20   U    106-46-7  1,4-Dichlorobenzene  0.869  0.200   5.22  1.20     95-50-1  1,2-Dichlorobenzene  0.543  0.200   3.26  1.20	108-67-8	1,3,5-Trimet	hylbenzene	0.261	0.200		1.28	0.983	-+		
100-44-7    Benzyl chloride    ND    0.200     ND    1.04     U      541-73-1    1,3-Dichlorobenzene    ND    0.200     ND    1.20     U      106-46-7    1,4-Dichlorobenzene    0.869    0.200     5.22    1.20       95-50-1    1,2-Dichlorobenzene    0.543    0.200     3.26    1.20	95-63-6	1,2,4-Trimet	hylbenzene	0.741	0.200	<u>1</u> 2	3.64	0.983	-		
541-73-1  1,3-Dichlorobenzene  ND  0.200   ND  1.20   U    106-46-7  1,4-Dichlorobenzene  0.869  0.200   5.22  1.20     95-50-1  1,2-Dichlorobenzene  0.543  0.200   3.26  1.20     100-00.1  1.0.1 Tricklandarsene  ND  0.000   3.26  1.20	100-44-7	Benzyl chlori	ide	ND	0.200	<b>**</b>	ND	1.04	*	U	
106-46-7  1,4-Dichlorobenzene  0.869  0.200   5.22  1.20     95-50-1  1,2-Dichlorobenzene  0.543  0.200   3.26  1.20	541-73-1	1,3-Dichlorol	penzene	ND	0.200	<b>65</b> 8	ND	1.20		U	
95-50-1 1,2-Dichlorobenzene 0.543 0.200 3.26 1.20	106-46-7	1,4-Dichlorol	penzene	0.869	0.200		5,22	1.20			
	95-50-1	1,2-Dichlorol	penzene	0.543	0.200	¥20	3.26	1.20	-		
120-82-1 1,2,4-1 ricriorobenzene ND 0.200 ND 1.48 U	120-82-1	1,2,4-Trichio	robenzene	ND	0.200	<del>.</del>	ND	1.48	*	U	
87-68-3 Hexachlorobutadiene ND 0.200 ND 2.13 U	87-68-3	Hexachlorob	utadiene	ND	0.200		ND	2.13		U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-06D Client ID : SSV-6 Sample Location : Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R165239 Sample Amount : 187 ml CAS NO. Parameter		SULTANTS	s, INC.		Lab Nu Projec Date C Date R Date A Dilution Analys Instrum GC Co	umber t Number collected Received analyzed n Factor t nent ID olumn ug/m3	: L1909348 : : 03/08/19 11:39 : 03/11/19 : 03/20/19 09:38 : 1.338 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	1.05	0.268	**	5.19	1.33	24		
74-87-3	Chloromethane	ND	0.268		ND	0.553	7.111	U	
76-14-2	Freon-114	ND	0.268	<del></del>	ND	1.87		U	
75-01-4	Vinyl chloride	ND	0.268	<b>#</b> #(	ND	0.685	: <del>**</del> *	U	
106-99-0	1,3-Butadiene	ND	0.268		ND	0.593		U	
74-83-9	Bromomethane	ND	0.268	-	ND	1.04	-	U	
75-00-3	Chloroethane	ND	0.268	<b>1</b> ,24	ND	0.707	-77	U	
64-17-5	Ethanol	29.3	6.69		55.2	12.6	::		
593-60-2	Vinyl bromide	ND	0.268	<b>22</b> 1	ND	1.17		U	
67-64-1	Acetone	9.16	1.34	<del>11</del>	21.8	3.18	-		
75-69-4	Trichlorofluoromethane	0.894	0.268		5.02	1.51			
67-63-0	Isopropanol	9.40	0.669	:	23.1	1.64	•		
75-35-4	1,1-Dichloroethene	ND	0,268		ND	1.06	-	U	
75-65-0	Tertiary butyl Alcohol	ND	0.669	-	ND	2.03	*	U	
75-09-2	Methylene chloride	0.793	0.669		2.75	2.32	:12:		
107-05-1	3-Chloropropene	ND	0.268		ND	0.839		U	
75-15-0	Carbon disulfide	ND	0.268	423) - 121	ND	0.835		U	
76-13-1	Freon-113	ND	0.268	÷	ND	2.05	æ	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.268		ND	1.06	. <del></del>	U	
75-34-3	1,1-Dichloroethane	ND	0.268	•••	ND	1.08	-	U	
1634-04-4	Methyl tert butyl ether	ND	0.268	-	ND	0.966	3 <b>4</b> 43	U	
78-93-3	2-Butanone	3.46	0.669		10.2	1.97			
156-59-2	cis-1,2-Dichloroethene	ND	0.268		ND	1.06		U	
141-78-6	Ethyl Acetate	10.5	0.669	(44)	37.8	2.41			
67-66-3	Chloroform	0.599	0.268	7.55	2.93	1.31			
109-99-9	Tetrahydrofuran	6.46	0.669	-	19.1	1.97			



Client Projec Lab II Client Samp Samp Analyi Lab Fi Samp	SULTANTS	δ, INC.		Lab Ne Projec Date C Date A Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: L1909348 : : 03/08/19 11:39 : 03/11/19 : 03/20/19 09:38 : 1.338 : EW : AIRPIANO1 : RTX-1			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.268	( <u>474</u> )	ND	1.08	244	U	
110-54-3	n-Hexane	ND	0.268	1000 	ND	0.945		U	
71-55-6	1,1,1-Trichloroethane	ND	0.268	1773	ND	1.46	-	U	
71-43-2	Benzene	11.5	0.268		36.7	0.856	:##		
56-23-5	Carbon tetrachloride	ND	0.268	1440	ND	1.69	122	U	
110-82-7	Cyclohexane	ND	0.268	-	ND	0.922	-	U	
78-87-5	1,2-Dichloropropane	ND	0.268		ND	1.24		U	
75-27-4	Bromodichloromethane	ND	0.268	-	ND	1.80		U	
123-91-1	1,4-Dioxane	ND	0.268	-	ND	0.966		U	
79-01-6	Trichloroethene	ND	0.268	<b>3</b>	ND	1.44	÷	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.268		ND	1.25		U	
142-82-5	Heptane	ND	0.268	••	ND	1.10	-	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.268		ND	1.22	1221	U	
108-10-1	4-Methyl-2-pentanone	ND	0.669	<b>H</b>	ND	2.74		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.268	1.05	ND	1.22	:77	U	
79-00-5	1,1,2-Trichloroethane	ND	0.268		ND	1.46	-	U	
108-88-3	Toluene	28.6	0.268	-	108	1.01			
591-78-6	2-Hexanone	ND	0.268		ND	1.10		U	
124-48-1	Dibromochloromethane	ND	0.268	HE (	ND	2.28		U	
106-93-4	1,2-Dibromoethane	ND	0.268	**	ND	2.06		U	
127-18-4	Tetrachloroethene	0.812	0.268		5.51	1.82	-		
108-90-7	Chlorobenzene	9.53	0.268		43.9	1.23	-		
100-41-4	Ethylbenzene	ND	0.268	<b>#</b> *:	ND	1.16	-	U	
179601-23-1	p/ <b>m-Xyl</b> ene	2.31	0.535	<b></b>	10.0	2.32			<u>n</u>
75-25-2	Bromoform	ND	0.268	<u></u>	ND	2.77		U	
100-42-5	Styrene	ND	0.268	=6	ND	1.14		U	



Client : CA RICH CONS Project Name : VIA VERDE Lab ID : L1909348-06D Client ID : SSV-6 Sample Location : Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R165239 Sample Amount : 187 ml CAS NO. Parameter		SULTANTS, INC.			Lab No Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID Slumn	: L19 : 03/ : 03/ : 03/ : 03/ : 1.3 : EW : AIR : RT)			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5	1,1,2,2-Tetra	chloroethane	ND	0.268	*	ND	1.84	:##	U	
50-47-0				0.200			1.10			
622-96-8	4-Ethyltoluer	10	ND	0.268		ND	1.32		U	
108-67-8	1,3,5-Trimeth	nyibenzene	0.329	0.268		1.62	1.32			
95-63-6	1,2,4-Trimeth	nylbenzene	1.10	0.268	-	5.41	1.32	344		
100-44-7	Benzyl chlori	de	ND	0.268	<u>111</u> 2	ND	1.39	10-2	U	
541-73-1	1,3-Dichlorot	penzene	ND	0.268	<b>.</b>	ND	1.61		U	
106-46-7	1,4-Dichlorob	penzene	0.864	0.268		5.19	1.61			
95-50-1	1,2-Dichlorob	penzene	0.482	0.268	##C	2.90	1.61	-		
120-82-1	1,2,4-Trichlo	robenzene	ND	0.268	-	ND	1.99		U	
87-68-3	Hexachlorob	utadiene	ND	0.268		ND	2.86		U	



Client Project Lab ID Client Sample Sample Analyti Lab Fil Sample	Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-07 Client ID : SSV-7 Sample Location : Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R165229 Sample Amount : 250 ml CAS NO. Parameter		ppbV			umber t Number collected Received Analyzed n Factor st nent ID olumn ug/m3	: L1909348 : : 03/08/19 12:27 : 03/11/19 : 03/19/19 21:34 : 1 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.444	0.200		2.20	0.989	-		
74-87-3	Chloromethane	ND	0.200		ND	0.413	100	U	
76-14-2	Freon-114	ND	0.200		ND	1.40	•	U	
75-01-4	Vinyl chloride	ND	0.200	<b>755</b> 0	ND	0.511	:**	U	
106-99-0	1,3-Butadiene	ND	0.200	ня.	ND	0.442	) <b>46</b> )	U	
74-83-9	Bromomethane	ND	0.200	227	ND	0.777	-	U	
75-00-3	Chloroethane	ND	0.200	10	ND	0.528		U	
64-17-5	Ethanol	20.9	5.00	<del>81</del> 1)	39.4	9.42	:***)		
593-60-2	Vinyl bromide	ND	0.200	<u>94</u> (	ND	0.874	( <b>44</b> )	U	
67-64-1	Acetone	5.10	1.00	947) 1947	12.1	2.38			
75-69-4	Trichlorofluoromethane	0.252	0.200		1.42	1.12			
67-63-0	Isopropanol	13.6	0.500	÷	33.4	1.23	-		
75-35-4	1,1-Dichloroethene	ND	0.200	##3	ND	0.793	-	U	
75-65-0	Tertiary butyl Alcohol	ND	0.500	<u>a</u> (	ND	1.52		U	
75-09-2	Methylene chloride	ND	0.500	<b>17</b> 1	ND	1.74	-	U	
107-05-1	3-Chloropropene	ND	0.200	**:	ND	0.626	**	U	
75-15-0	Carbon disulfide	ND	0.200	<b>22</b> ()	ND	0.623		V	
76-13-1	Freon-113	ND	0.200	<b>H</b>	ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793	5174	U	
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809	3444	U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721	446 	U	
78-93-3	2-Butanone	2.29	0.500		6.75	1.47	<b>.</b>		
156-59-2	cis-1,2-Dichloroethene	ND	0.200	-	ND	0.793	. <del></del> :	U	
141-78-6	Ethyl Acetate	6.91	0,500	•••	24. <del>9</del>	1.80			
67-66-3	Chloroform	2.30	0.200		11.2	0.977	(11)		
109-99-9	Tetrahydrofuran	4.93	0.500		14.5	1,47			



Clien Proje Lab II Clien Samp Samp Analy Lab F Samp	t  : CA RICH CON    ct Name  : VIA VERDE    D  : L1909348-07    t ID  : SSV-7    ble Location  :    ble Matrix  : SOIL_VAPOR    rtical Method  : 48,TO-15    File ID  : R165229    ble Amount  : 250 ml	SULTANTS	3, INC.		Lab No Projec Date C Date F Date A Dilutio Analys Instrur GC Co	99348 8/19 12:27 1/19 9/19 21:34 PIANO1 -1			
CAS NO.	Parameter	Results	ppbV RL	MDL	Results	ug/m3 RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200	<b>4</b> 42)	ND	0.809	244	U	
110-54-3	n-Hexane	ND	0.200	-	ND	0.705		U	
71-55-6	1,1,1-Trichloroethane	ND	0.200	and i	ND	1.09		U	
71-43-2	Benzene	7.92	0.200		25.3	0.639	-		
56-23-5	Carbon tetrachloride	ND	0.200	-	ND	1.26		U	
110-82-7	Cyclohexane	ND	0.200	-	ND	0.688		U	
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200	-	ND	1.34		U	
123-91-1	1,4-Dioxane	ND	0.200	1000	ND	0.721		U	
79-01-6	Trichloroethene	ND	0.200	÷.	ND	1.07		U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	-	ND	0.934		U	
142-82-5	Heptane	ND	0.200		ND	0.820	144)	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	7	U	
108-10-1	4-Methyl-2-pentanone	ND	0,500	-	ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908		U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	H4 (	ND	1.09	-	U	
108-88-3	Toluene	5.45	0.200		20.5	0.754			
591-78-6	2-Hexanone	ND	0.200		ND	0.820	:777.	U	
124-48-1	Dibromochloromethane	ND	0.200	-	ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200	¥¥5	ND	1.54		U	
127-18-4	Tetrachloroethene	ND	0.200		ND	1.36		U	
108-90-7	Chlorobenzene	5.65	0.200		26.0	0.921			
100-41-4	Ethylbenzene	ND	0.200		ND	0.869		U	
179601-23-1	p/m-Xylene	1.40	0.400		6.08	1.74			
75-25-2	Bromoform	ND	0.200		ND	2.07		U	
100-42-5	Styrene	ND	0.200		ND	0.852		U	



Client : CA RICH Project Name : VIA VERE Lab ID : L1909348 Client ID : SSV-7 Sample Location : Sample Matrix : SOIL_VAI Analytical Method : 48,TO-15 Lab File ID : R165229 Sample Amount : 250 ml		: CA RICH CON VIA VERDE L1909348-07 SSV-7 SOIL_VAPOR 48,TO-15 R165229 250 ml	SULTANTS	, INC.		Lab No Projec Date C Date A Date A Dilutio Analys Instrur GC Co	umber t Number collected Received analyzed n Factor st nent ID olumn	: L19 : 03/ : 03/ : 03/ : 03/ : 1 : EW : AIR : RT2		
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5	1,1,2,2-Tetracl	nloroethane	ND	0.200	-	ND	1.37	त् <u>ति</u> त्	U	
95-47-6	o-Xylene		0.241	0.200	<del></del> :	1.05	0.869			
622-96-8	4-Ethyltoluene		ND	0.200	<u>11</u> 3	ND	0.983		U	
108-67-8	1,3,5-Trimethy	lbenzene	ND	0.200	÷.	ND	0.983	•	U	
95-63-6	1,2,4-Trimethy	lbenzene	0.412	0.200	<del>60</del> 7	2.03	0.983			
100-44-7	Benzyl chloride	)	ND	0.200		ND	1.04	-	U	
541-73-1	1,3-Dichlorobe	nzene	ND	0.200	<b></b>	ND	1.20		U	
106-46-7	1,4-Dichlorobe	nzene	0.422	0.200	<del>, a</del> ti	2,54	1.20			
95-50-1	1,2-Dichlorobe	nzene	0.241	0.200	<del>92</del> 2	1.45	1.20			
120-82-1	1,2,4-Trichloro	benzene	ND	0.200	445) (144	ND	1.48		U	
87-68-3	Hexachlorobut	adiene	ND	0.200	110 (H	ND	2.13		U	



Client Projec Lab II Client Samp Samp Analy Lab F Samp	: CA RICH CON t Name : VIA VERDE D : L1909348-08 ID : SSV-8 le Location : le Matrix : SOIL_VAPOR tical Method : 48,TO-15 ile ID : R165230 le Amount : 250 ml	SULTANTS	5, INC. ppbV		Lab No Project Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID olumn ug/m3	: L1909348 : 03/08/19 13:18 03/11/19 03/19/19 22:06 : 1 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.507	0.200		2.51	0.989	-		
74-87-3	Chloromethane	ND	0.200	9 <b>1</b> 20	ND	0.413	722	U	
76-14-2	Freon-114	ND	0.200	-	ND	1.40		U	
75-01-4	Vinyl chloride	ND	0.200	<b>**</b>	ND	0.511	-11	U	
106-99-0	1,3-Butadiene	ND	0.200	<del>97</del> ;	ND	0.442	-	U	
74-83-9	Bromomethane	ND	0.200	110) 1100	ND	0.777	-	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethanol	12.4	5.00	-	23.4	9.42			
593-60-2	Vinyl bromide	ND	0.200	<b>11</b>	ND	0.874		U	
67-64-1	Acetone	5.28	1.00		12.5	2.38	-		
75-69-4	Trichlorofluoromethane	0.399	0.200	55 K.	2.24	1.12			
67-63-0	Isopropanoi	8.07	0.500		19.8	1.23			
75-35-4	1,1-Dichloroethene	ND	0.200		ND	0.793		U	
75-65-0	Tertiary butyl Alcohol	ND	0.500	<b>#</b> 2	ND	1.52	-	U	
75-09-2	Methylene chloride	ND	0.500	<b>5</b> 2	ND	1.74		U	
107-05-1	3-Chloropropene	ND	0.200		ND	0.626		U	
75-15-0	Carbon disulfide	ND	0.200	H23	ND	0.623	1015	U	
76-13-1	Freon-113	ND	0.200		ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200	<del>12</del> 8	ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200	₩.	ND	0.809		U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721		U	
78-93-3	2-Butanone	2.37	0.500		6.99	1.47			
156-59-2	cis-1,2-Dichloroethene	ND	0.200	<b></b>	ND	0.793		U	
141-78-6	Ethyl Acetate	7.01	0,500		25.3	1.80			
67-66-3	Chloroform	0.558	0.200	12021	2.72	0.977	3 <b>4</b> 57		
109-99-9	Tetrahydrofuran	4.06	0.500		12.0	1.47			



Clien Proje Lab II Clien Samp Samp Analy Lab F Samp	t: CA RICH CONct Name: VIA VERDED: L1909348-08t ID: SSV-8ole Location:ole Matrix: SOIL_VAPORtical Method: 48,TO-15ile ID: R165230ole Amount: 250 ml	SULTANTS	S, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed in Factor st ment ID plumn ug/m3	: L1909348 : : 03/08/19 13:18 : 03/11/19 : 03/19/19 22:06 : 1 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809		U	
110-54-3	n-Hexane	ND	0.200	-	ND	0.705	200	U	
71-55-6	1,1,1-Trichloroethane	ND	0.200	×	ND	1.09	-	U	
71-43-2	Benzene	7.41	0.200	<b></b>	23.7	0.639	5772		
56-23-5	Carbon tetrachloride	ND	0.200		ND	1.26		U	
110-82-7	Cyclohexane	ND	0.200	120	ND	0.688	-	U	
78-87-5	1,2-Dichloropropane	ND	0.200	ŝ	ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34		U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721	-	U	
79-01-6	Trichloroethene	ND	0.200		ND	1.07	-920	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	÷.	ND	0.934		U	
142-82-5	Heptane	ND	0.200		ND	0,820	-	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	112 S	ND	0.908	( <b>44</b> )	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	¥4)	ND	2.05	100	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908		U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	ee:	ND	1.09	:**)	U	
108-88-3	Toluene	73.1	0.200		275	0.754			
591-78-6	2-Hexanone	ND	0.200		ND	0.820	-	U	
124-48-1	Dibromochloromethane	ND	0.200		ND	1.70	.70.	U	
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		U	
127-18-4	Tetrachloroethene	1.46	0.200	-	9.90	1.36			
108-90-7	Chlorobenzene	6,34	0,200	-	29.2	0.921	×		
100-41-4	Ethylbenzene	ND	0.200	<del></del>	ND	0.869		U	
179601-23-1	p/m-Xylene	1.51	0.400		6.56	1.74	-		
75-25-2	Bromoform	ND	0.200	<b>1</b> 43	ND	2.07	-	U	
100-42-5	Styrene	ND	0.200	-	ND	0.852		U	



Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-08Client ID: SSV-8Sample Location:Sample Matrix: SOIL_VAPORAnalytical Method: 48,TO-15Lab File ID: R165230Sample Amount: 250 ml		SULTANTS	b, INC.		Lab Ne Projec Date C Date A Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: L1909348 : : 03/08/19 13:18 : 03/11/19 : 03/19/19 22:06 : 1 : EW : AIRPIANO1 : RTX-1				
CAS N	0.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5	5	1,1,2,2-Tetra	chloroethane	ND	0.200	-	ND	1.37		U	
95-47-6	<b>)</b>	o-Xylene		0.303	0.200	-	1.32	0.869			
622-96-	-8	4-Ethyltoluer	10	0.207	0.200	<b>.</b>	1.02	0.983			
108-67	-8	1,3,5-Trimet	nylbenzene	0.328	0.200		1.61	0.983	:**		
95-63-6	i	1,2,4-Trimet	nylbenzene	1.28	0.200		6.29	0.983			
100-44-	-7	Benzyl chlori	de	ND	0.200	9 <b>1</b> 1	ND	1.04	-	U	
541-73-	·1	1,3-Dichlorol	benzene	ND	0.200		ND	1.20		U	
106-46-	.7	1,4-Dichlorol	penzene	0.699	0.200	<del>80</del> 0	4.20	1.20	:##		
95-50-1		1,2-Dichlorol	penzene	0.400	0.200	**:	2.40	1.20			
120-82-	1	1,2,4-Trichlo	robenzene	ND	0.200	<b>14</b> )	ND	1.48	122	U	
87-68-3		Hexachlorob	utadiene	ND	0.200	÷.	ND	2.13	÷.	U	



Client Projec Lab ID Client Sampl Sampl Analyt Lab Fi Sampl	: CA RICH CONS t Name : VIA VERDE D : L1909348-09 ID : SSV-9 e Location : e Matrix : SOIL_VAPOR ical Method : 48,TO-15 le ID : R165231 e Amount : 250 ml	SULTANTS	s, INC.		Lab Nu Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID olumn ug/m3	: L1909348 : : 03/08/19 12:35 : 03/11/19 : 03/19/19 22:39 : 1 : EW : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.708	0.200		3.50	0.989			
74-87-3	Chloromethane	ND	0.200	<b>1</b> 10	ND	0.413	-241	U	
76-14-2	Freon-114	ND	0.200		ND	1.40		U	
75-01-4	Vinyl chloride	ND	0.200	877.)	ND	0.511	200	U	
106-99-0	1,3-Butadiene	ND	0.200	**	ND	0.442	-	U	
74-83-9	Bromomethane	ND	0.200	<u> 20</u> 2	ND	0.777		U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethanol	14.4	5.00		27.1	9.42			
593-60-2	Vinyl bromide	ND	0.200	**	ND	0.874		U	
67-64-1	Acetone	3.18	1.00	¥#3	7.55	2.38	1442) 1442)		
75-69-4	Trichlorofluoromethane	0.240	0.200		1.35	1.12	-		
67-63-0	Isopropanol	9.18	0.500	<b></b> )	22.6	1.23			
75-35-4	1,1-Dichloroethene	ND	0.200	**	ND	0.793	9 <b>9</b> 90	U	
75-65-0	Tertiary butyl Alcohol	ND	0.500	221	ND	1.52		U	
75-09-2	Methylene chloride	ND	0.500	-	ND	1.74		U	
107-05-1	3-Chloropropene	ND	0.200		ND	0.626	-	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623		U	
76-13-1	Freon-113	ND	0.200	21.6	ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200	<del></del>	ND	0.809		U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721	<b>6</b> 45	U	
78-93-3	2-Butanone	1.66	0.500	-	4.90	1.47			
156-59-2	cis-1,2-Dichloroethene	ND	0,200	1.55	ND	0.793		U	
141-78-6	Ethyl Acetate	4.90	0.500		17.7	1.80			
67-66-3	Chloroform	ND	0.200	(im):	ND	0.977		U	
109-99-9	Tetrahydrofuran	3.02	0.500	-	8.91	1,47	***		



Client Projec Lab ID Client Sampl Sampl Analyt Lab Fi Sampl	: CA RICH CONS to Name : VIA VERDE : L1909348-09 ID : SSV-9 le Location : le Matrix : SOIL_VAPOR ical Method : 48,TO-15 le ID : R165231 le Amount : 250 ml	SULTANTS	S, INC. ppbV		Lab Nu Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	09348 8/19 12:35 1/19 9/19 22:39 PIANO1 :-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809	-	U
110-54-3	n-Hexane	ND	0.200		ND	0.705	712	U
71-55-6	1,1,1-Trichloroethane	ND	0.200		ND	1.09		U
71-43-2	Benzene	5.59	0.200	<b></b> ?	17.9	0.639	:	
56-23-5	Carbon tetrachloride	ND	0.200		ND	1.26	5447	U
110-82-7	Cyclohexane	ND	0.200	-	ND	0.688	144	U
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924		U
75-27-4	Bromodichloromethane	ND	0.200	***	ND	1.34		U
123-91-1	1,4-Dioxane	ND	0.200	<b>111</b>	ND	0.721	1	U
79-01-6	Trichloroethene	ND	0.200	¥	ND	1.07		U
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934		U
142-82-5	Heptane	ND	0.200	-	ND	0.820		U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	94)	ND	0.908		U
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05		U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	TT-1	ND	0.908		U
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09		U
108-88-3	Toluene	82.4	0.200	643) 6443	311	0.754		
591-78-6	2-Hexanone	ND	0.200	÷	ND	0.820		U
124-48-1	Dibromochloromethane	ND	0.200	<del>77</del> 3	ND	1.70		U
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		υ
127-18-4	Tetrachloroethene	0.266	0.200		1.80	1.36		
108-90-7	Chlorobenzene	5.98	0.200		27.5	0.921	-	
100-41-4	Ethylbenzene	ND	0.200		ND	0.869		U
179601-23-1	p/m-Xylene	1.25	0.400		5.43	1.74		
75-25-2	Bromoform	ND	0.200	÷	ND	2.07	44	U
100-42-5	Styrene	ND	0.200		ND	0.852		U
<u> </u>								



Client : CA RICH O Project Name : VIA VERD Lab ID : L1909348 Client ID : SSV-9 Sample Location : Sample Matrix : SOIL_VAF Analytical Method : 48,TO-15 Lab File ID : R165231 Sample Amount : 250 ml CAS NO. Parameter		: CA RICH CONS : VIA VERDE : L1909348-09 : SSV-9 : : SOIL_VAPOR : 48,TO-15 : R165231 : 250 ml	SULTANTS	5, INC.		Lab No Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID olumn	: L1909348 : : 03/08/19 12:35 : 03/11/19 : 03/19/19 22:39 : 1 : EW : AIRPIANO1 : RTX-1		
				ppbV			ug/m3		0.17	
CAS NO.	Parameter		Hesults	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5	1,1,2,2-Tetra	achloroethane	ND	0.200		ND	1.37	-	U	
95-47-6	o-Xylene		0.272	0.200		1.18	0.869			
622-96-8	4-Ethyltolue	ne	0.210	0.200		1.03	0.983			
108-67-8	1,3,5-Trimet	hylbenzene	0.328	0.200		1.61	0.983			
95-63-6	1,2,4-Trimet	hylbenzene	1.30	0.200	<u></u>	6.39	0.983			
100-44-7	Benzyl chlor	ide	ND	0.200		ND	1.04	•	U	
541-73-1	1,3-Dichloro	benzene	ND	0.200	#8	ND	1.20	-	U	
106-46-7	1,4-Dichloro	benzene	0.920	0.200	***	5.53	1.20	**		
95-50-1	1,2-Dichloro	benzene	0.501	0.200	123	3.01	1.20	-24-		
120-82-1	1,2,4-Trichlo	robenzene	ND	0.200		ND	1.48	**	U	
87-68-3	Hexachlorob	utadiene	ND	0.200	<b></b> )	ND	2.13	2.501	U	



Client Projec Lab II	: CA RICH CC t Name : VIA VERDE ) : L1909348-10	) ) )	5, INC.		Lab Number : L1909348 Project Number : Date Collected : 03/08/19 13:00					
Client Samp Samp	ID : SSV-10 le Location : le Matrix : SOIL_VAPO	R			Date F Date A Dilutio	Received Analyzed In Factor	: 03/ <sup>-</sup> : 03/ <sup>-</sup> : 1	1/19  9/19 23:11		
Analyi Lab Fi Samp	tical Method : 48,TO-15 ile ID : R165232 le Amount : 250 ml				Analys Instrui GC Co	st nent ID olumn	: EW : AIR : RT)	PIANO1 (-1		
CAS NO.	Parameter	Results	ppbV RL	MDL	Results	ug/m3 RL	MDL	Qualifier		
75 74 9	Disklovedificeremethens	0.08	0.000		11.2	0.090				
70-71-0	Chloromethane	2.20 ND	0.200		ND	0.909	-			
76-14-2	Freor-114	ND	0.200		ND	1.40		U		
75-01-4	Vinvl chloride	ND	0.200		ND	0.511		U		
106-99-0	1.3-Butadiene	ND	0.200		ND	0.442	-	U		
74-83-9	Bromomethane	ND	0.200		ND	0.777	-	U		
75-00-3	Chloroethane	ND	0.200		ND	0,528		U		
64-17-5	Ethanol	20.3	5.00		38.3	9.42				
593-60-2	Vinyl bromide	ND	0.200		ND	0.874		U		
67-64-1	Acetone	6.01	1.00	-	14.3	2.38	-			
75-69-4	Trichlorofluoromethane	0.523	0.200	<del></del>	2.94	1.12	-			
67-63-0	Isopropanol	14.9	0.500	-	36.6	1.23				
75-35-4	1,1-Dichloroethene	ND	0.200	-	ND	0.793		U		
75-65-0	Tertiary butyl Alcohol	0.794	0.500		2.41	1.52	÷			
75-09-2	Methylene chloride	1.33	0.500		4.62	1.74	-			
107-05-1	3-Chloropropene	ND	0.200	<b>1</b> 43	ND	0.626	iin i	U		
75-15-0	Carbon disulfide	ND	0.200	-	ND	0.623		U		
76-13-1	Freon-113	ND	0.200		ND	1.53	-	U		
156-60-5	trans-1,2-Dichloroethene	ND	0.200	••	ND	0.793		U		
75-34-3	1,1-Dichloroethane	ND	0.200	<b>4</b> 400	ND	0.809	**	U		
1634-04-4	Methyl tert butyl ether	ND	0.200	<u> </u>	ND	0.721		U		
78-93-3	2-Butanone	3.09	0.500	<b>15</b> 8	9.11	1.47	1977)			
156-59-2	cis-1,2-Dichloroethene	ND	0.200	•••)	NÐ	0.793	(44)	U		
141-78-6	Ethyl Acetate	9.09	0.500	-129 -	32.8	1.80	1941			
67-66-3	Chloroform	ND	0.200	-	ND	0.977		U		
109-99-9	Tetrahydrofuran	5.45	0.500	3993	16.1	1.47	3 <b>99</b> 1			



Clien Proje Lab I Clien Sam Sam Analy Lab F Sam	tt: CA RICH CONect Name: VIA VERDED: L1909348-10t ID: SSV-10ple Location:ple Matrix: SOIL_VAPOR/tical Method: 48,TO-15File ID: R165232ple Amount: 250 ml	SULTANTS	S, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instru GC Co	umber tt Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: L19 : 03// : 03/ : 03/ : 03/ : 1 : EW : AIR : RT2	009348 08/19 13:00 11/19 19/19 23:11 9 PIANO1 X-1
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	19 <b>4</b> 12	ND	0.809		U
110-54-3	n-Hexane	ND	0.200	(**)	ND	0.705	-	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	0.000	ND	1.09		U
71-43-2	Benzene	9.87	0.200		31.5	0.639	<del></del>	
56-23-5	Carbon tetrachloride	ND	0.200	2 <b></b> 2	ND	1.26	-	U
110-82-7	Cyclohexane	ND	0.200	æ	ND	0.688	÷.	U
78-87-5	1,2-Dichloropropane	ND	0.200	8777	ND	0.924	<b></b>	U
75-27-4	Bromodichloromethane	ND	0.200	(***	ND	1.34		U
123-91-1	1,4-Dioxane	0.278	0,200	200	1.00	0.721		
79-01-6	Trichloroethene	ND	0.200		ND	1.07	**	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	3 <del>51</del>	ND	0.934	<b></b> :	U
142-82-5	Heptane	ND	0.200	-	ND	0.820	<del>#4</del> 1	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	-	ND	0.908	<b>111</b> 0	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	-	ND	2.05		U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908		U
79-00-5	1,1,2-Trichloroethane	ND	0.200	-	ND	1.09	###:/	U
108-88-3	Toluene	71.9	0.200		271	0.754	-	
591-78-6	2-Hexanone	0.253	0.200		1.04	0.820		
124-48-1	Dibromochloromethane	ND	0.200	्म	ND	1.70	-	U
106-93-4	1,2-Dibromoethane	ND	0.200	344	ND	1.54		U
127-18-4	Tetrachloroethene	1.18	0.200		8.00	1.36	-	
108-90-7	Chlorobenzene	11.6	0.200	লা	53.4	0.921		
100-41-4	Ethylbenzene	ND	0.200		ND	0.869		U
179601-23-1	p/m-Xylene	2.81	0.400		12.2	1.74	/ <u>414</u> 0	
75-25-2	Bromoform	ND	0.200		ND	2.07	(#)	U
100-42-5	Styrene	ND	0.200		ND	0.852		U



Project Name: VILab ID: L1Client ID: SSSample Location:Sample Matrix: SCAnalytical Method: 48Lab File ID: R1Sample Amount: 25	A VERDE 909348-10 SV-10 DIL_VAPOR ,TO-15 165232 0 ml	yada		Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	t Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: 03// : 03/ : 03/ : 1 : EW : AIR : RT		
CAS NO. Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
79-34-5 1,1,2,2-Tetrachloro	ethane ND	0.200		ND	1.37		U	
95-47-6 o-Xylene	0.500	0.200	(22)	2.17	0.869			
622-96-8 4-Ethyttoluene	0.310	0.200		1.52	0.983			
108-67-8 1,3,5-Trimethylbenz	ene 0.480	0.200		2.36	0.983	2 <b>9%</b>		
95-63-6 1,2,4-Trimethylbenz	ene 1.63	0.200		8.01	0.983			
100-44-7 Benzyl chloride	ND	0.200		ND	1.04		U	
541-73-1 1,3-Dichlorobenzen	e ND	0.200		ND	1.20	<b>19</b>	U	
106-46-7 1,4-Dichlorobenzen	e 1.24	0.200	-	7.46	1.20	3000		
95-50-1 1,2-Dichlorobenzen	e 0.783	0.200		4.71	1.20			
120-82-1 1,2,4-Trichlorobenz	ene ND	0.200	-	ND	1.48	-	U	
87-68-3 Hexachlorobutadier	ne ND	0.200		ND	2.13		U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-11 Client ID : IA-1 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165174 Sample Amount : 250 ml		SULTANTS	ppbV		Lab Nu Projec Date C Date R Date A Dilution Analys Instrum GC Co	Imber t Number collected ecceived nalyzed n Factor t nent ID Jumn ug/m3	: L19 : 03// : 03// : 03// : 03// : 1 : TS : AIR : RT)	09348 08/19 11:17 11/19 16/19 22:10 PIANO1 X-1	
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.358	0.200		1.77	0.989	2 <del></del> 1.		
74-87-3	Chloromethane	0.496	0.200	-	1.02	0.413	()###() 10		
76-14-2	Freon-114	ND	0.200		ND	1.40	0.222	U	
106-99-0	1,3-Butadiene	ND	0.200		ND	0.442	1722	U	
74-83-9	Bromomethane	ND	0.200		ND	0.777	88 <del>911</del>	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528	( <del>311</del>	U	
64-17-5	Ethanol	86.9	5,00	-	164	9.42	34		
593-60-2	Vinyl bromide	ND	0,200	1777)	ND	0.874	077	U	
67-64-1	Acetone	6.57	1.00	) <b></b>	15.6	2.38	5 <del>00</del>		
75-69-4	Trichlorofluoromethane	ND	0.200		ND	1.12	244	U	
67-63-0	Isopropanol	2.71	0.500		6.66	1.23	1 <del>1.</del>		
75-65-0	Tertiary butyl Alcohol	ND	0.500	:17.	ND	1.52	-	U	
75-09-2	Methylene chloride	ND	0.500	(##)	ND	1.74	-	U	
107-05-1	3-Chloropropene	ND	0.200	-22	ND	0.626	3 <b>22</b>	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623		U	
76-13-1	Freon-113	ND	0.200		ND	1.53	8 <b>9</b>	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200	3444 1944	ND	0.809	244	U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721	-	U	
78-93-3	2-Butanone	1.21	0.500		3.57	1.47			
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80	-	υ	
67-66-3	Chloroform	ND	0.200		ND	0.977	822	U	
109-99-9	Tetrahydrofuran	ND	0.500		ND	1.47		U	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809	-	U	
110-54-3	n-Hexane	0.209	0.200		0.737	0.705			
71-43-2	Benzene	0.231	0.200		0.738	0.639			
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Client : CA RICH COI Project Name : VIA VERDE Lab ID : L1909348-11 Client ID : IA-1 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165174 Sample Amount : 250 ml		NSULTANTS	S, INC.		Lab Ne Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID blumn	: L19 : 03/0 : 03/1 : 03/1 : 1 : TS : AIR : RT)		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82-7	Cyclohexane	ND	0.200	5 <b>44</b>	ND	0.688	¥#S	U	
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924	÷	U	
75-27-4	Bromodichloromethane	ND	0.200	1.00	ND	1.34	<del></del> 8	U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721		U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	544	ND	0.934		U	
142-82-5	Heptane	ND	0.200		ND	0.820	-	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	0.00	ND	0.908	<del></del> 2	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	782	ND	0.908	2000) 	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09	=	U	
108-88-3	Toluene	0.541	0.200	्म	2.04	0.754	<b>**</b> 2		
591-78-6	2-Hexanone	ND	0.200	200	ND	0.820	****	U	
124-48-1	Dibromochloromethane	ND	0.200	<u>, 1</u>	ND	1.70	447	U	
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		U	
108-90-7	Chlorobenzene	ND	0.200	्रम	ND	0.921	<b>#</b> 2	U	
100-41-4	Ethylbenzene	ND	0.200	244	ND	0.869	440)	U	
179601-23-1	p/m-Xylene	ND	0.400	/##	ND	1.74	<b>1</b> 27	U	
75-25-2	Bromoform	ND	0.200		ND	2.07	17	U	
100-42-5	Styrene	ND	0.200		ND	0.852	<del>10</del> 55	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	124	ND	1.37	440	U	
95-47-6	o-Xylene	ND	0.200	-	ND	0.869	-	U	
622-96-8	4-Ethyltoluene	ND	0,200		ND	0.983		U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	( <del>111</del>	ND	0.983		U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983	443	U	
100-44-7	Benzyl chloride	ND	0.200	1	ND	1.04		U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20	-	U	



Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount		: CA RICH CON : VIA VERDE : L1909348-11 : IA-1 : : AIR : 48,TO-15 : R165174 : 250 ml	SULTANTS	5, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instru GC C	umber t Number Collected Received Analyzed n Factor st nent ID plumn	: L19 03/ 03/ 03/ : 03/ : 1 : TS : AIR : RT2	: L1909348 : : 03/08/19 11:17 : 03/11/19 : 03/16/19 22:10 : 1 : TS : AIRPIANO1 : BTX-1		
	•		ppbV			8	ug/m3				
CASNO	D. Parameter		Results	RL	MDL	Results	RL	MDL.	Qualifier		
106-46-	7 1,4-Dichlorol	oenzene	0.249	0.200		1.50	1.20	(1 <del>11)</del> -			
95-50 <b>-</b> 1	1,2-Dichlorol	penzene	ND	0.200	122	ND	1.20		U		
120-82-	1 1,2,4-Trichlo	robenzene	ND	0.200		ND	1.48		U		
87-68-3	Hexachlorob	utadiene	ND	0.200	25R	ND	2.13	877	U		



Client : CA RICH CONS Project Name : VIA VERDE Lab ID : L1909348-11 Client ID : IA-1 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15-SIM Lab File ID : R165174 Sample Amount : 250 ml		SULTANTS	s, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID blumn ua/m3	: L1909348 : : 03/08/19 11:17 : 03/11/19 : 03/16/19 22:10 : 1 : TS : AIRPIANO1 : RTX-1			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	9	ND	0.020		ND	0.051		U	
75-35-4	1,1-Dichloro	ethene	ND	0.020	÷	ND	0.079		U	
156-59-2	cis-1,2-Dichl	oroethene	ND	0.020		ND	0.079	:***	υ	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020	-	ND	0.109	( <b>44</b> )	U	
56-23-5	Carbon tetra	chloride	0.074	0.020	9 <b>4</b> 5	0.465	0.126	:00		
79-01-6	Trichloroethe	ene	ND	0.020		ND	0.107	-	U	
127-18-4	Tetrachloroe	thene	0.034	0.020		0.231	0.136	(##)		
540-59-0	1,2-Dichloro	ethene (total)	ND	0.020	wie (	ND	0.079	(111)	U	



Client Project Lab ID Client I Sample Sample Lab Fil Sample	: CA RICH CON : Name : VIA VERDE : L1909348-12 D : IA-2 e Location : Matrix : AIR cal Method : 48,TO-15 e ID : R165175 e Amount : 250 ml	SULTANTS	onbV		Lab Nu Projec Date C Date R Date A Dilution Analys Instrum GC Co	umber t Number collected leceived analyzed n Factor t nent ID olumn	: L1909348 : : 03/08/19 11:19 : 03/11/19 : 03/16/19 22:43 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.325	0.200	144	1.61	0.989	244		
74-87-3	Chloromethane	0.564	0.200		1.16	0.413	يند ( ا		
76-14-2	Freon-114	ND	0.200		ND	1.40		U	
106-99-0	1,3-Butadiene	ND	0.200		ND	0.442	्मन	U	
74-83-9	Bromomethane	ND	0.200		ND	0.777	:	U	
75-00-3	Chloroethane	ND	0.200	-	ND	0.528		U	
64-17-5	Ethanol	91.4	5.00	355	172	9.42	-		
593-60-2	Vinyl bromide	ND	0.200		ND	0.874		U	
67-64-1	Acetone	6.39	1.00		15.2	2.38	122		
75-69-4	Trichlorofluoromethane	0.217	0.200		1.22	1.12	-		
67-63-0	Isopropanol	2.60	0.500	S <del>en</del> e	6.39	1.23	257		
75-65-0	Tertiary butyl Alcohol	ND	0.500		ND	1.52		U	
75-09-2	Methylene chloride	1.53	0.500	-	5.32	1.74	5.25		
107-05-1	3-Chloropropene	ND	0.200		ND	0.626	19	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623		U	
76-13-1	Freon-113	ND	0.200		ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793	(44) (44)	U	
75-34-3	1,1-Dichloroethane	ND	0.200	in an	ND	0.809	1	U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721		U	
78-93-3	2-Butanone	1.16	0.500	-	3.42	1.47		3046	
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80	- 14	U	
67-66-3	Chloroform	ND	0.200		ND	0.977		U	
109-99-9	Tetrahydrofuran	1.63	0.500	-	4.81	1.47			
107-06-2	1,2-Dichloroethane	ND	0.200	-	ND	0,809	3 <del>44</del>	U	
110-54-3	n-Hexane	0.455	0.200	-	1.60	0.705			
71-43-2	Benzene	0.277	0,200		0.885	0.639	-		
			0	17 January					



Client : CA RICH COI Project Name : VIA VERDE Lab ID : L1909348-12 Client ID : IA-2 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165175 Sample Amount : 250 ml CAS NO. Parameter		ISULTANTS	boby		Lab No Projec Date C Date A Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID plumn ua/m3	: L19 03/( 03/ <sup>-</sup> 03/ <sup>-</sup> 1 : TS : AIR : RT2	09348 08/19 11:19 11/19 16/19 22:43 PIANO1 X-1	
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82-7	Cyclohexane	ND	0.200		ND	0.688	्म	U	
78-87-5	1,2-Dichloropropane	ND	0.200	-	ND	0.924	-	U	
75-27-4	Bromodichloromethane	ND	0.200	-	ND	1.34	-	U	
123-91-1	1,4-Dioxane	ND	0.200	155	ND	0.721		U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934		U	
142-82-5	Нертапе	ND	0.200		ND	0.820	( <del>11</del>	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	-	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05	877	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908		U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	-12	ND	1.09	-	U	
108-88-3	Toluene	0.510	0.200	•	1.92	0.754	÷		
591-78-6	2-Hexanone	ND	0.200	1991	ND	0.820	21	U	
124-48-1	Dibromochloromethane	ND	0.200	-	ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200	2021	ND	1.54	(22)	U	
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	1	U	
100-41-4	Ethylbenzene	ND	0.200	HT:	ND	0.869	-	U	
179601-23-1	p/m-Xylene	ND	0.400		ND	1.74		U	
75-25-2	Bromoform	ND	0.200		ND	2.07	7.AL	U	
100-42-5	Styrene	ND	0.200	ΞŤ	ND	0.852		U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	##2	ND	1.37		U	
95-47-6	o-Xylene	ND	0.200	****	ND	0.869	- 444	U	
622-96-8	4-Ethyltoluene	ND	0.200	-	ND	0.983		U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	<b></b>	ND	0.983	-	U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983		U	
100-44-7	Benzyl chloride	ND	0.200	-	ND	1.04	-	U	
541-73-1	1,3-Dichlorobenzene	ND	0.200	121	ND	1.20		U	
									_



Client : CA RICH CC Project Name : VIA VERDE Lab ID : L1909348-12 Client ID : IA-2 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165175 Sample Amount : 250 ml		: CA RICH CON : VIA VERDE : L1909348-12 : IA-2 : : AIR : 48,TO-15 : R165175	ISULTANTS	LTAN 13, INC.			umber t Number Collected Received Analyzed n Factor St nent ID	: L19 03/ 03/ 03/ 03/ 1 : TS : AIR	: L1909348 : : 03/08/19 11:19 : 03/11/19 : 03/16/19 22:43 : 1 : TS : AIRPIANO1		
	Sample Amc	mount	: 250 ml			GC Co	olumn	: RT2	X-1		
					ppbV			ug/m3			
CAS N	lo. I	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
106-46	i-7 1	,4-Dichlorol	penzene	ND	0.200		ND	1.20		U	
<b>95-50-</b> 1	1 1	,2-Dichlorol	penzene	ND	0.200	1244	ND	1.20	122	U	
120-82	-1 1	,2,4-Trichlo	robenzene	ND	0.200	<b>1</b>	ND	1.48	+	U	
87-68-3	3 H	lexachlorob	utadiene	ND	0.200	डनह	ND	2.13		U	



Client : CA RICH CONS Project Name : VIA VERDE Lab ID : L1909348-12 Client ID : IA-2 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15-SIM Lab File ID : R165175 Sample Amount : 250 ml			SULTANTS	5, INC.		Lab No Project Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: L1909348 : : 03/08/19 11:19 : 03/11/19 : 03/16/19 22:43 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	0 - E 10	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	e	ND	0.020	-	ND	0.051	5 <del>40</del>	U	
75-35-4	1,1-Dichloro	ethene	ND	0.020		ND	0.079	548	U	
156-59-2	cis-1,2-Dichl	oroethene	ND	0.020		ND	0.079		U	
71-55-6	1,1,1-Trichio	roethane	ND	0.020		ND	0.109		U	
56-23-5	Carbon tetra	chloride	0.075	0.020		0.472	0.126			
79-01-6	Trichloroethe	ene	ND	0.020	( <b>44</b> )	ND	0.107		U	
127-18-4	Tetrachloroe	thene	0.037	0.020		0.251	0.136			
540-59 <b>-</b> 0	1,2-Dichloroe	ethene (total)	ND	0.020		ND	0.079	:==	U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-13 Client ID : IA-3 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165176 Sample Amount : 250 ml CAS NO. Parameter		ISULTANTS	S, INC. ppbV		Lab No Project Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID olumn ug/m3	: L19 : : 03/0 : 03/1 : 03/1 : 1 : TS : AIR : RT)	09348 08/19 11:22 11/19 16/19 23:15 PIANO1 (-1	
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.323	0.200		1.60	0.989			
74-87-3	Chloromethane	0.557	0.200	344	1.15	0.413			
76-14-2	Freon-114	ND	0.200	٠	ND	1.40	-	U	
106-99-0	1,3-Butadiene	ND	0.200	2.2	ND	0.442		U	
74-83-9	Bromomethane	ND	0.200	-	ND	0.777	:	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethanol	102	5,00		192	9.42	-		
593-60-2	Vinyl bromide	ND	0.200	1777	ND	0.874	277	U	
67-64-1	Acetone	5.67	1.00	( <b>**</b> )	13.5	2.38			· · · · · · · · · · · · · · · · · · ·
75-69-4	Trichlorofluoromethane	0.201	0.200	-	1.13	1.12	844		
67-63-0	Isopropanol	3.00	0.500		7.37	1.23			
75-65-0	Tertiary butyl Alcohol	ND	0.500	:55	ND	1.52		U	
75-09-2	Methylene chloride	1.04	0.500		3.61	1.74			
107-05-1	3-Chloropropene	ND	0,200	-	ND	0.626	822	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623	-	U	
76-13-1	Freon-113	ND	0.200		ND	1.53	1.5.5	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200	-	ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200	~	ND	0.809	-	U	
1634-04-4	Methyl tert butyl ether	ND	0.200	×	ND	0.721	-	U	
78-93-3	2-Butanone	0.927	0.500	:##	2.73	1.47			
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80		U	
67-66-3	Chloroform	ND	0.200		ND	0.977		U	
109-99-9	Tetrahydrofuran	ND	0.500	M	ND	1.47		U	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809		U	
110-54-3	n-Hexane	ND	0.200		ND	0.705	-	U	
71-43-2	Benzene	0.255	0.200		0.815	0.639			



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-13 Client ID : IA-3 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165176 Sample Amount : 250 ml CAS NO. Parameter		SULTANTS	5, INC.		Lab Ne Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID plumn ua/m3	: L1909348 : : 03/08/19 11:22 : 03/11/19 : 03/16/19 23:15 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82-7	Cyclohexane	ND	0.200	122	ND	0.688	24	U	
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200	3 <b>.99</b> 5	ND	1.34	San	U	
123-91-1	1,4-Dioxane	ND	0.200	2944	ND	0.721	30 <del>40</del>	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	1922	ND	0.934	844	U	
142-82-5	Heptane	ND	0.200	<b>1</b>	ND	0.820		U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	:**	ND	0.908	3.50	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	-	ND	0.908	-	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09		U	
108-88-3	Toluene	0.367	0.200		1.38	0.754	:		
591-78-6	2-Hexanone	ND	0.200		ND	0.820		U	
124-48-1	Dibromochloromethane	ND	0.200	3112	ND	1.70	3 <b>4</b>	U	
106-93-4	1,2-Dibromoethane	ND	0.200	-	ND	1.54	-	U	
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	3 <del>5.</del>	U	
100-41-4	Ethylbenzene	ND	0.200	::	ND	0.869		U	
179601-23-1	p/m-Xylene	ND	0.400	7	ND	1.74	-	U	
75-25-2	Bromoform	ND	0.200	-	ND	2.07		U	
100-42-5	Styrene	ND	0.200	(85)	ND	0.852		U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	199	ND	1.37	200	U	
95-47-6	o-Xylene	ND	0.200		ND	0.869	æ	U	
622-96-8	4-Ethyltoluene	ND	0.200		ND	0.983	277	U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	:##)	ND	0,983		U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983		U	
100-44-7	Benzyl chloride	ND	0.200	••	ND	1.04		U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20		U	


	Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount	: CA RICH CON : VIA VERDE : L1909348-13 : IA-3 : : AIR : 48,TO-15 : R165176 : 250 ml	SULTANTS	5, INC.		Lab No Projec Date C Date A Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID Dumn	: L19 r : 03/ : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIF : RT	909348 08/19 11:22 11/19 16/19 23:15 RPIANO1 X-1	
			2	ppbV		-	ug/m3			
CASNO	). Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
106-46-7	7 1,4-Dichloro	benzene	ND	0.200		ND	1.20		U	
95-50-1	1,2-Dichloro	benzene	ND	0.200	(44)	ND	1.20		U	
120-82-1	I 1,2,4-Trichlo	robenzene	ND	0.200	<u>[11]</u>	ND	1.48		U	
87-68-3	Hexachlorob	utadiene	ND	0.200	3.55	ND	2.13	855	U	



Client: CA RICH CONSProject Name: VIA VERDELab ID: L1909348-13Client ID: IA-3Sample Location:Sample Matrix: AIRAnalytical Method: 48,TO-15-SIMLab File ID: R165176Sample Amount: 250 ml			SULTANTS	5, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID olumn	: L19 : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIR : RT		
CAS NO.	Parameter		Results	PPDV RL	MDL	Results	ug/m3 RL	MDL	Qualifier	
75-01-4 75-35-4	Vinyl chloride	thene	ND ND	0.020		ND ND	0.051 0.079	0 <b>00</b>	UU	
156-59-2	cis-1,2-Dichk	proethene	ND	0.020		ND	0.079	الم مالي	U	
71-55-6	1,1,1-Trichloi	oethane	ND	0.020		ND	0.109	: <del></del>	U	
56-23-5	Carbon tetrac	hloride	0.073	0.020		0.459	0.126			
79-01-6	Trichloroethe	ne	ND	0.020	5215	ND	0.107	-	U	
127-18-4	Tetrachloroet	hene	0.036	0.020	-	0.244	0.136			
540-59-0	1,2-Dichloroe	thene (total)	ND	0.020		ND	0.079	175	U	



Clien Proje Lab II Clien Samp Samp Analy Lab F Samp	t : CA RICH CO ct Name : VIA VERDE D : L1909348-14 t ID : IA-4 ble Location : ble Matrix : AIR tical Method : 48,TO-15 file ID : R165178 ble Amount : 250 ml	NSULTANTS	5, INC.		Lab N Project Date C Date F Date A Dilutio Analys Instrum GC Co	09348 08/19 11:32 11/19 17/19 00:20 PIANO1 X-1			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.301	0.200		1.49	0.989	158		
74-87-3	Chloromethane	0.556	0.200	:##)	1.15	0.413	: <del></del>		
76-14-2	Freon-114	ND	0.200	1141	ND	1.40	20	U	
106-99-0	1,3-Butadiene	ND	0.200		ND	0.442		U	
74-83-9	Bromomethane	ND	0.200		ND	0.777	3 <b>91</b>	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethanol	97.1	5.00	-	183	9.42	9 <b>21</b>		
593-60-2	Vinyl bromide	ND	0.200	-	ND	0.874	-	U	
67-64-1	Acetone	5.68	1.00		13.5	2.38	: <del></del>		
75-69-4	Trichlorofluoromethane	0.207	0.200		1.16	1.12			
67-63-0	Isopropanol	2.87	0.500	-	7.05	1.23			
75-65-0	Tertiary butyl Alcohol	ND	0,500		ND	1.52	-	U	
75-09-2	Methylene chloride	2.97	0.500	-	10.3	1.74	s <del>an</del>		
107-05-1	3-Chloropropene	ND	0.200	-	ND	0.626	: <del></del>	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623	122	U	
76-13-1	Freon-113	ND	0.200	-	ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793	-	U	
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809	1.00	U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721		U	
78-93-3	2-Butanone	0.940	0.500		2.77	1.47			
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80		U	
67-66-3	Chloroform	ND	0.200	221	ND	0.977	1-4	U	<u>m</u>
109-99-9	Tetrahydrofuran	ND	0.500		ND	1.47	16	U	
107-06-2	1,2-Dichloroethane	ND	0,200	185	ND	0.809	: <del></del>	U	
110-54-3	n-Hexane	0.236	0.200		0.832	0.705			
71-43-2	Benzene	0.237	0.200	( <u>22</u> )	0.757	0.639	122		



Client : CA RICH COI Project Name : VIA VERDE Lab ID : L1909348-14 Client ID : IA-4 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165178 Sample Amount : 250 ml CAS NO. Parameter		SULTANTS	ppbV		Lab Nu Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st ment ID plumn ug/m3	: L19 : 03/0 : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 1 : TS : AIR : RT)	: L1909348 : : 03/08/19 11:32 : 03/11/19 : 03/17/19 00:20 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier		
110-82-7	Cyclohexane	ND	0.200		ND	0.688		U		
78-87-5	1,2-Dichloropropane	ND	0.200	-	ND	0.924		U		
75-27-4	Bromodichloromethane	ND	0.200	-	ND	1.34	1440 1940	U		
123-91-1	1,4-Dioxane	ND	0.200	1077	ND	0.721	<del></del>	U		
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934	****	U		
142-82-5	Heptane	ND	0.200	322	ND	0.820	##C	U		
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	-	ND	0.908	<u>#</u> )	U		
108-10-1	4-Methyl-2-pentanone	ND	0.500	270	ND	2.05		U		
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908	<del></del> 5	U		
79-00-5	1,1,2-Trichloroethane	ND	0.200	( <b>-1</b>	ND	1.09	<del>44</del> %	U		
108-88-3	Toluene	0.384	0.200		1.45	0.754				
591-78-6	2-Hexanone	ND	0.200	See	ND	0.820	ne.	U		
124-48-1	Dibromochloromethane	ND	0,200		ND	1.70	***	U		
106-93-4	1,2-Dibromoethane	ND	0.200	22	ND	1,54	44.9	U		
108-90-7	Chlorobenzene	ND	0.200	-	ND	0.921		U		
100-41-4	Ethylbenzene	ND	0.200	348	ND	0.869	<b>19</b> 8	U		
179601-23-1	p/m-Xylene	ND	0.400		ND	1.74		U		
75-25-2	Bromoform	ND	0.200	-22	ND	2.07	- <u>415</u> 9	U		
100-42-5	Styrene	ND	0,200		ND	0.852		U		
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	255	ND	1.37		U		
95-47-6	o-Xylene	ND	0.200	-	ND	0.869		U		
622-96-8	4-Ethyltoluene	ND	0.200	144	ND	0,983	V.#89	U		
108-67-8	1,3,5-Trimethylbenzene	ND	0.200		ND	0.983		U		
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	-	ND	0.983		U	- arte - anartaŭ	
100-44-7	Benzyl chloride	ND	0.200		ND	1.04		U		
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20	-	U		



Clie Proj Lab Clie San San Ana Lab San	nt lD ID nple Location nple Matrix lytical Method File ID nole Amount	: CA RICH CON : VIA VERDE : L1909348-14 : IA-4 : : AIR : 48,TO-15 : R165178 : 250 ml	<b>3ULTANTS, INC.</b>			Lab No Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number collected Received analyzed n Factor st nent ID olumn	: L19 : 03/ : 03/ : 03/ : 1 : TS : AIF : RT	: L1909348 : : 03/08/19 11:32 : 03/11/19 : 03/17/19 00:20 : 1 : TS : AIRPIANO1 : BTX-1		
	•			ppbV			ug/m3				
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier		
106-46-7	1,4-Dichloro	benzene	ND	0.200		ND	1.20	(r <b>===</b> 7)	U		
95-50-1	1,2-Dichlorol	benzene	ND	0.200	3	ND	1.20	(44)	U		
120-82-1	1,2,4-Trichlo	robenzene	ND	0.200	552	ND	1.48	15001	U		
87-68-3	Hexachiorob	utadiene	ND	0.200		ND	2.13		U		



Client: CA RICH CONSProject Name: VIA VERDELab ID: L1909348-14Client ID: IA-4Sample Location:Sample Matrix: AIRAnalytical Method: 48,TO-15-SIMLab File ID: R165178Sample Amount: 250 ml			SULTANTS	ULTANTS, INC.			umber t Number Collected Received Analyzed n Factor st nent ID olumn	: L1909348 : : 03/08/19 11:32 : 03/11/19 : 03/17/19 00:20 : 1 : TS : AIRPIANO1 : RTX-1		
			ő	ppbV			ug/m3			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chloride	9	ND	0.020		ND	0.051	1	U	
75-35-4	1,1-Dichloroe	ethene	ND	0.020	5. <b>49</b>	ND	0.079	(1 <del>410</del> 1)	U	
156-59-2	cis-1,2-Dichlo	proethene	ND	0.020	:##	ND	0.079	88 <del>49</del> 7	U	
71-55-6	1,1,1-Trichlor	roethane	ND	0.020		ND	0.109	e	U	
56-23-5	Carbon tetrad	chloride	0.074	0.020	355	0.465	0.126	1.57		
79-01-6	Trichloroethe	ne	ND	0.020		ND	0.107	3. <b></b>	U	100 Mar 10
127-18-4	Tetrachloroet	thene	0.034	0.020	-	0.231	0.136	244		
540-59-0	1,2-Dichloroe	thene (total)	ND	0.020	-	ND	0.079	(#	U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-15 Client ID : IA-5 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165179 Sample Amount : 250 ml CAS NO. Parameter		NSULTANTS	boby		Lab No Project Date C Date A Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID plumn ua/m3	: L19 : 03// : 03// : 03// : 03// : 1 : TS : AIR : RT2		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8 74-87-3	Dichlorodifluoromethane	0.333	0.200		1.65	0.989			
74-07-3		0.505	0.200		1.20 ND	1.40	2000 2000		
100.00.0			0.200			1.40			
106-99-0	1,3-Butadiene	ND	0.200		UN	0.442		U	
/4-83-9	Bromomethane	ND	0.200	(77)	ND	0.777	192	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethanol	90.0	5.00	1441	170	9.42			
593-60-2	Vinyl bromide	ND	0.200		ND	0.874		U	
67-64-1	Acetone	5.49	1.00	-	13.0	2.38	्रमा		
75-69-4	Trichlorofluoromethane	ND	0.200	**	ND	1.12	-	U	
67-63-0	Isopropanol	3.74	0.500	( <b>11</b> )	9.19	1.23	-		
75-65-0	Tertiary butyl Alcohol	ND	0.500	-	ND	1.52	•	U	
75-09-2	Methylene chloride	0.819	0.500	<b>111</b> )	2,85	1.74			
107-05-1	3-Chloropropene	ND	0.200	<del>90</del> 0	ND	0.626	-	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623	-	U	
76-13-1	Freon-113	ND	0.200	-	ND	1.53		Ų	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809		U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721		U	
78-93-3	2-Butanone	0.715	0.500		2.11	1.47			
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80		U	
67-66-3	Chloroform	ND	0.200		ND	0.977	÷	U	
109-99-9	Tetrahydrofuran	ND	0.500		ND	1.47		U	
107-06-2	1,2-Dichloroethane	ND	0,200		ND	0.809		U	
110-54-3	n-Hexane	ND	0.200		ND	0.705			
71-43-2	Benzene	0.251	0 200		0 802	0.639	-1	-	
	SUILONG	0.201	0.200		0.002	0.000			



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-15 Client ID : IA-5 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165179 Sample Amount : 250 ml CAS NO. Parameter		NSULTANTS	s, INC.		Lab No Project Date C Date A Date A Dilutio Analys Instrur GC Co	Lab Number : L1909348 Project Number : Date Collected : 03/08/19 11:37 Date Received : 03/11/19 Date Analyzed : 03/17/19 00:52 Dilution Factor : 1 Analyst : TS Instrument ID : AIRPIANO1 GC Column : RTX-1 ug/m3				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier		
110-82-7	Cyclohexane	ND	0.200	i etti	ND	0.688	(1 <del>00)</del>	U		
78-87-5	1,2-Dichloropropane	ND	0.200	-	ND	0.924	1522	U		
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34	1.77	U		
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721	ð. <del>510</del>	U		
540-84-1	2,2,4-Trimethylpentane	ND	0.200	-	ND	0.934	244	U		
142-82-5	Heptane	ND	0.200		ND	0.820	8	U		
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	Kiile	ND	0.908		U		
108-10-1	4-Methyl-2-pentanone	ND	0.500	(***)	ND	2.05	3.000	U		
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908	844	U		
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09	2 <b>-</b>	U		
108-88-3	Toluene	0.316	0.200	1886	1.19	0.754	:			
591-78-6	2-Hexanone	ND	0.200		ND	0,820	3. <del>411</del>	U	_	
124-48-1	Dibromochloromethane	ND	0.200	1202	ND	1.70	794	U		
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		U		
108-90-7	Chlorobenzene	ND	0.200	1.502	ND	0.921	S	U		
100-41-4	Ethylbenzene	ND	0.200	:**	ND	0.869		U		
179601-23-1	p/m-Xylene	ND	0.400		ND	1.74	244	U		
75-25-2	Bromoform	ND	0.200		ND	2.07	<u>.</u>	U		
100-42-5	Styrene	ND	0.200		ND	0.852	S <del></del>	U		
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	-	ND	1.37		U		
95-47-6	o-Xylene	ND	0.200	3 <b>4</b> 40	ND	0.869	2.00	U		
622-96-8	4-Ethyltoluene	ND	0.200	i <del>n</del>	ND	0.983		U		
108-67-8	1,3,5-Trimethylbenzene	ND	0.200		ND	0.983		U		
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	(44)	ND	0.983	-	υ		
100-44-7	Benzyl chloride	ND	0.200		ND	1.04	1023	บ		
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20		U		



Clie Proj Lab Clie San San Ana Lab San	ent ject Name DD nple Location nple Matrix Nytical Method File ID nple Amount	: CA RICH CON : VIA VERDE : L1909348-15 : IA-5 : : AIR : 48,TO-15 : R165179 : 250 ml	SULTANTS	5, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID olumn	: L19 03/ 03/ 03/ 03/ 1 : TS AIR : TS	009348 08/19 11:37 11/19 17/19 00:52 RPIANO1 X-1	
CAS NO.	Parameter		Results	ppbV RL	MDL	Results	ug/m3 RL	MDL	Qualifier	
106-46-7 95-50-1	1,4-Dichlorol	penzene penzene	ND ND	0.200 0.200		ND ND	1.20 1.20	3 <b>399</b> 20 <b>11</b>	UU	
120-82-1	1,2,4-Trichlo	robenzene	ND	0.200		ND	1.48	( <del>2</del>	U	
87-68-3	Hexachlorob	utadiene	ND	0.200	2000	ND	2.13	ंग्रह	U	



Client: CA RICH CONSProject Name: VIA VERDELab ID: L1909348-15Client ID: IA-5Sample Location:Sample Matrix: AIRAnalytical Method: 48,TO-15-SIMLab File ID: R165179Sample Amount: 250 ml			SULTANTS	ppbV		Lab Nu Projec Date C Date A Date A Dilutio Analys Instrur GC Co	umber t Number collected leceived analyzed n Factor t nent ID olumn ug/m3	: L19 : 03/0 : 03/ <sup>7</sup> : 03/ <sup>7</sup> : 03/ <sup>7</sup> : 03/ <sup>7</sup> : 1 : TS : AIR : RTX		
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chloride	e	ND	0.020		ND	0.051	200	U	
75-35-4	1,1-Dichloro	ethene	ND	0.020		ND	0.079		U	1
156-59-2	cis-1,2-Dichl	oroethene	ND	0.020	-4	ND	0.079	2021	U	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020		ND	0.109		U	
56-23-5	Carbon tetra	chloride	0.073	0.020		0.459	0.126			
79-01-6	Trichloroethe	ene	ND	0.020	144	ND	0.107	-	U	
127-18-4	Tetrachloroe	thene	0,037	0.020	••	0.251	0.136	720		
540-59-0	1,2-Dichloroe	ethene (total)	ND	0.020	-	ND	0.079		U	



Clier Proje Lab Clier Sam Sam Anal Lab Sam	nt: CA RICH CONect Name: VIA VERDEID: L1909348-16nt ID: IA-6ple Location:uple Matrix: AIRytical Method: 48,TO-15File ID: R165180uple Amount: 250 ml	NSULTANTS	6, INC.		Lab Ne Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID	: L19 : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIR : BT		
Guili		-	ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.302	0.200	-	1.49	0.989			
74-87-3	Chloromethane	0.572	0,200	-	1.18	0.413		- million - mill	
76-14-2	Freon-114	ND	0.200		ND	1.40	<u>.</u>	U	
106-99-0	1,3-Butadiene	ND	0.200	1015-	ND	0.442	: 217;	U	
74-83-9	Bromomethane	ND	0.200		ND	0.777		U	
75-00-3	Chloroethane	ND	0.200	- 12	ND	0.528		υ	
64-17-5	Ethanol	120	5.00		226	9.42	1 <b>44</b>		
593-60-2	Vinyl bromide	ND	0.200	а <del>т.</del>	ND	0.874	125	U	
67-64-1	Acetone	7.32	1.00		17,4	2.38			
75-69-4	Trichlorofluoromethane	0.203	0.200		1.14	1.12	-22		
67-63-0	Isopropanol	2.78	0.500		6.83	1.23	-+		
75-65-0	Tertiary butyl Alcohol	ND	0.500		ND	1.52	398	U	
75-09-2	Methylene chloride	0.673	0.500	(44)	2.34	1.74			
107-05-1	3-Chloropropene	ND	0.200	225	ND	0.626	-	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623		U	
76-13-1	Freon-113	ND	0.200		ND	1.53		U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200	(44)	ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200	-	ND	0,809	-	U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721		U	
78-93-3	2-Butanone	0.752	0.500		2.22	1.47			
141-78-6	Ethyl Acetate	ND	0.500	-	ND	1.80	-	U	
67-66-3	Chloroform	ND	0.200		ND	0.977	-	U	
109-99-9	Tetrahydrofuran	ND	0.500		ND	1.47		U	
107-06-2	1,2-Dichloroethane	ND	0.200	-	ND	0.809		U	
110-54-3	n-Hexane	ND	0.200	-	ND	0.705	(##	U	
71-43-2	Benzene	0.267	0.200	-	0.853	0.639			



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-16 Client ID : IA-6 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165180 Sample Amount : 250 ml CAS NO. Parameter		ISULTANTS	s, INC.		Lab No Project Date C Date F Date A Dilutio Analys Instrur GC Co	umber t Number Collected Received Analyzed n Factor st nent ID plumn ug/m3	: L19 : 03// : 03// : 03// : 03// : 1 : TS : AIR : RT2		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82-7	Cyclohexane	ND	0.200	.#=	ND	0.688		U	
78-87-5	1,2-Dichloropropane	ND	0.200	(444) 	ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34		U	
123-91-1	1,4-Dioxane	ND	0.200	200	ND	0.721	-	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	-	ND	0.934	( <del>ne</del>	U	
142-82-5	Heptane	ND	0.200		ND	0.820		U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	-	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	-	ND	0.908	-	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09		U	
108-88-3	Toluene	0.377	0.200	993) 1993	1.42	0.754	-		
591-78-6	2-Hexanone	ND	0.200		ND	0.820	1 <b></b>	U	
124-48-1	Dibromochloromethane	ND	0.200		ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200	<u>100</u> 2	ND	1.54	1005	U	
108-90-7	Chlorobenzene	ND	0.200		ND	0.921		U	
100-41-4	Ethylbenzene	ND	0.200	575	ND	0.869	( <b>111</b> )	U	
179601-23-1	p/m-Xylene	ND	0,400	***	ND	1.74	<b></b>	U	1005
75-25-2	Bromoform	ND	0.200		ND	2.07	:246	U	
100-42-5	Styrene	ND	0.200	<b>1</b>	ND	0.852	-	U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	<b>17</b> 51	ND	1.37		U	
95-47-6	o-Xylene	ND	0.200	H4)	ND	0.869	-	U	
622-96-8	4-Ethyltoluene	ND	0.200	122 P	ND	0.983	:45:	U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200		NÐ	0.983	÷	U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983		U	
100-44-7	Benzyl chloride	ND	0.200		ND	1.04	(44)	U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20	3427	U	



Client Project Name Lab ID Client ID Sample Location Sample Matrix Analytical Method Lab File ID Sample Amount		: CA RICH CON : VIA VERDE : L1909348-16 : IA-6 : : AIR : 48,TO-15 : R165180 : 250 ml	SULTANTS	5, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instrui GC Co	umber t Number Collected Received Analyzed n Factor st ment ID olumn	: L19 : 03/ : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIR : RT	: L1909348 : : 03/08/19 11:38 : 03/11/19 : 03/17/19 01:25 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter		Results	ppbV RL	MDL	Results	ug/m3 RL	MDL	Qualifier		
106-46-7 95-50-1	1,4-Dichlorol	penzene	ND	0.200	-	ND	1.20 1.20		U		
120-82-1	1,2,4-Trichlo	robenzene	ND	0.200	-	ND	1,48	-	U		
87-68-3	Hexachlorob	utadiene	ND	0.200		ND	2.13	5 <del>6</del>	U		



Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-16Client ID: IA-6Sample Location:Sample Matrix: AIRAnalytical Method: 48,TO-15-SIMLab File ID: R165180Sample Amount: 250 ml		SULTANTS	ppbV		Lab Ne Projec Date C Date A Date A Dilutio Analys Instrur GC Cc	umber t Number collected leceived analyzed n Factor t nent ID olumn ug/m3	: L19 : 03/( : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 1 : TS : AIR : RT)			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	e	ND	0.020		ND	0.051	-	U	
75-35-4	1,1-Dichloro	ethene	ND	0.020		ND	0.079		U	
156-59-2	cis-1,2-Dichl	oroethene	ND	0.020		ND	0.079	: <b></b> :	U	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020		ND	0.109	-	U	
56-23-5	Carbon tetra	chloride	0.076	0.020		0.478	0.126	-		
79-01-6	Trichloroethe	e	ND	0.020	-	ND	0.107		U	
127-18-4	Tetrachloroe	thene	0.032	0.020		0.217	0.136	100		
540-59-0	1,2-Dichloro	ethene (total)	ND	0.020		ND	0.079		U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-17 Client ID : IA-7 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165181 Sample Amount : 250 ml CAS NO. Parameter		NSULTANTS	s, INC. ppbV		Lab No Project Date C Date F Date A Dilutio Analys Instrur GC Co	009348 08/19 12:28 11/19 17/19 01:57 PIANO1 X-1			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.396	0.200	1 <b>71</b>	1.96	0.989	-		
74-87-3	Chloromethane	0.544	0.200		1.12	0.413	(	-00	
76-14-2	Freon-114	ND	0.200		ND	1.40	1	U	
106-99-0	1,3-Butadiene	ND	0.200		ND	0.442	-	U	
74-83-9	Bromomethane	ND	0.200	3.00	ND	0.777	8. <del>5.5</del> k	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528	0.000	U	
64-17-5	Ethanol	31.7	5.00	-	59.7	9.42	-		
593-60-2	Vinyl bromide	ND	0.200	-	ND	0.874	-	U	
67-64 <b>-</b> 1	Acetone	3.74	1.00		8.88	2.38	H <del>an</del> C		
75-69-4	Trichlorofluoromethane	0.213	0.200	-	1.20	1.12	() <del>111</del> ()		
67-63-0	Isopropanol	13.2	0.500	-	32.4	1.23	0440		
75-65-0	Tertiary butyl Alcohol	ND	0.500		ND	1.52		U	
75-09-2	Methylene chloride	ND	0.500		ND	1.74	52 <del>41</del> 1	U	
107-05-1	3-Chloropropene	ND	0.200	-	ND	0.626	(1444)	U	
75-15-0	Carbon disulfide	ND	0.200	122	ND	0.623	1121	U	
76-13-1	Freon-113	ND	0.200	-	ND	1.53	-	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793	0. <del>11.</del>	U	
75-34-3	1,1-Dichloroethane	ND	0.200	(##)	ND	0.809	344	U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0,721	×.	U	
78-93-3	2-Butanone	ND	0.500		ND	1.47	1.72	U	
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80	·++	U	
67-66-3	Chloroform	ND	0.200		ND	0.977	322	U	
109-99-9	Tetrahydrofuran	ND	0.500	÷.	ND	1.47	-	U	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809		U	
110-54-3	n-Hexane	ND	0.200	-	ND	0.705		U	
71-43-2	Benzene	0.269	0.200		0.859	0.639	-		



Client Projec Lab ID Client Sampl Sampl Analyti Lab Fil	: CA RICH ( t Name : VIA VERD : L1909348- ID : IA-7 e Location : e Matrix : AIR ical Method : 48,TO-15 le ID : R165181 e Amount : 250 ml	CONSULTANTS E 17	S, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instru GC Co				
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82 <b>-</b> 7	Cyclohexane	ND	0.200		ND	0.688	21 <b>-1-</b>	U	
78-87-5	1,2-Dichloropropane	ND	0.200	(#	ND	0.924	-	U	
75-27-4	Bromodichloromethane	ND	0.200	: <b>::</b> ::	ND	1.34	San	U	
123-91-1	1,4-Dioxane	ND	0.200	:***	ND	0.721		U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934	844	U	
142-82-5	Heptane	ND	0.200	19 <del>9</del> 8	ND	0.820	8 <del>.</del>	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	355	U	
108-10-1	4-Methy-2-pentanone	ND	0.500		ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	-	ND	0.908		U	
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09	-	U	
108-88-3	Toluene	0.285	0.200		1.07	0.754			
591-78-6	2-Hexanone	ND	0.200		ND	0.820	-	U	
124-48-1	Dibromochloromethane	ND	0.200	1822	ND	1.70	-	U	
106-93-4	1,2-Dibromoethane	ND	0.200		ND	1.54		U	
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	347	U	
100-41-4	Ethylbenzene	ND	0.200	( <b></b> )	ND	0.869	:44	U	
179601-23-1	p/m-Xylene	ND	0.400	122	ND	1.74	022	U	
75-25-2	Bromoform	ND	0.200		ND	2.07	-	U	
100-42-5	Styrene	ND	0.200	( <b>11</b> )	ND	0.852		U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	5 <b>413</b> )	ND	1.37	-	U	
95-47-6	o-Xylene	ND	0.200		ND	0.869	722	U	
622-96-8	4-Ethyltoluene	ND	0.200		ND	0.983	1100	U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200		ND	0.983		U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983	2.22	U	
100-44-7	Benzyl chloride	ND	0.200	-	ND	1.04	<u>.</u>	U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20		U	



	Client Project Name	: CA RICH CON : VIA VERDE	SULTANTS	6, INC.		Lab N Projec	umber t Number	: L19 :	09348	
	Lab ID	: L1909348-17				Date C	Collected	: 03/	08/19 12:28	
	Client ID	: IA-7				Date F	Received	: 03/	11/19	
	Sample Location	:				Date A	Analyzed	: 03/	17/19 01:57	
	Sample Matrix	: AIR				Dilutio	n Factor	8 1		
	<b>Analytical Method</b>	: 48,TO-15				Analys	st	: TS		
	Lab File ID	: R165181				Instru	ment ID	: AIF	PIANO1	
	Sample Amount	: 250 ml				GC Co	olumn	: RT	X-1	
				ppbV			ug/m3			
CAS N	O. Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
106-46	-7 1,4-Dichlord	obenzene	ND	0.200	-	ND	1.20	-	U	
95-50-1	1 1,2-Dichloro	obenzene	ND	0.200	-	ND	1.20		U	
120-82	-1 1,2,4-Trichle	probenzene	ND	0.200		ND	1.48		U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-17 Client ID : IA-7 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15-SIM Lab File ID : R165181 Sample Amount : 250 ml		SULTANTS	, INC.		Lab Nu Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number collected teceived unalyzed n Factor st nent ID olumn	L1909348 03/08/19 12:28 03/11/19 03/17/19 01:57 1 TS AIRPIANO1 RTX-1			
			-	ppbV			ug/m3			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	9	ND	0.020		ND	0.051		U	
75-35-4	1,1-Dichloro	ethene	ND	0.020		ND	0.079		U	
156-59-2	cis-1,2-Dichl	oroethene	ND	0.020	2 <b>41</b> 1	ND	0.079		U	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020		ND	0.109	12	U	
56-23-5	Carbon tetra	chloride	0.076	0.020	( <del>111</del> )	0.478	0.126			
79-01 <b>-</b> 6	Trichloroethe	ene	ND	0.020	(***)	ND	0.107		U	- me
127-18-4	Tetrachloroe	thene	0.034	0.020		0.231	0.136	124		
540-59-0	1,2-Dichloro	ethene (total)	ND	0.020		ND	0.079	iii	U	



Client:CA RICH CONProject Name:VIA VERDELab ID:L1909348-18Client ID:IA-8Sample Location:Sample Matrix:AIRAnalytical Method:48,TO-15Lab File ID:R165182Sample Amount:250 ml		SULTANTS	ppbV		Lab Nu Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number collected leceived n Factor t n Factor st nent ID olumn ua/m3	: L19 : : 03// : 03/ : 03/ : 1 : TS : AIR : RT2	09348 08/19 12:38 11/19 17/19 02:30 PIANO1 X-1	
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.321	0.200	-	1.59	0.989			
74-87-3	Chloromethane	0.536	0.200	-	1.11	0,413			
76-14-2	Freon-114	ND	0.200	740	ND	1.40		U	
106-99-0	1,3-Butadiene	ND	0.200	-	ND	0.442		U	
74-83-9	Bromomethane	ND	0.200	188	ND	0.777	2 <b></b>	U	NAN 30
75-00-3	Chloroethane	ND	0.200		ND	0.528	-44	U	
64-17-5	Ethanol	33.9	5.00		63.9	9.42	<u>_</u>		
593-60-2	Vinyl bromide	ND	0.200		ND	0.874		U	
67-64-1	Acetone	6.89	1.00	) <b>m</b> m)	16.4	2.38			
75-69-4	Trichlorofluoromethane	0.210	0.200	-	1.18	1.12			
67-63-0	Isopropanol	9.68	0.500		23.8	1.23			
75-65-0	Tertiary butyl Alcohol	ND	0.500		ND	1.52		U	
75-09-2	Methylene chloride	ND	0.500		ND	1.74		U	
107-05-1	3-Chloropropene	ND	0.200		ND	0.626	199	U	
75-15-0	Carbon disulfide	ND	0.200	-	ND	0.623	16	U	
76-13-1	Freon-113	ND	0.200		ND	1.53	See	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200		ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0,200		ND	0.809	-22	U	
1634-04-4	Methyl tert butyl ether	ND	0.200	9	ND	0.721	1 <del>11</del>	U	
78-93-3	2-Butanone	0.812	0.500	( <del>***</del> )	2.39	1.47	1.555		
141-78-6	Ethyl Acetate	ND	0.500	-	ND	1.80		U	
67-66-3	Chloroform	ND	0.200		ND	0.977		U	
109-99-9	Tetrahydrofuran	ND	0.500		ND	1.47		U	
107-06-2	1,2-Dichloroethane	ND	0.200	-	ND	0.809		U	_
110-54-3	n-Hexane	0.441	0.200		1.55	0.705			
71-43-2	Benzene	0.308	0.200		0.984	0.639			



Client Projec	: CA RICH COI t Name : VIA VERDE	NSULTANTS	6, INC.		Lab N Projec	umber t Number	: L1909348 : : 03/08/19 12:38		
Lab ID Client	: L1909348-18				Date C	Collected	: 03/0	J8/19 12:38	
Sample	e Location				Date A	nalvzed	03/	17/19 02:30	
Sampl	e Matrix : AIR				Dilutio	n Factor	: 1		
Analyti	cal Method : 48,TO-15				Analys	st	: TS		
Lab Fil	e ID : R165182				Instru	nent ID	: AIR	PIANO1	
Sample	e Amount : 250 ml				GC Co	olumn	: RT)	<b>(</b> -1	
			ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	10
110-82-7	Cyclohexane	ND	0.200		ND	0.688	( <del></del> )	U	
78-87-5	1,2-Dichloropropane	ND	0.200	104	ND	0.924	9.9 <u>8</u>	U	
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34	·	U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721	i <del>ne</del>	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934	0,946	U	
142-82-5	Heptane	0.288	0.200	-	1.18	0.820	9.00		
10061-01-5	cis-1,3-Dichloropropene	ND	0,200		ND	0.908		U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	-	ND	2.05	:# <b>*</b>	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	(##:	ND	0.908	0.244	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09	77.201	U	
108-88-3	Toluene	1.07	0.200	-	4.03	0.754			
591-78-6	2-Hexanone	ND	0.200	-	ND	0.820	0. <del>11</del>	U	
124-48-1	Dibromochloromethane	ND	0.200	100	ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0,200	-	ND	1.54	(#	U	
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	040	U	
100-41-4	Ethylbenzene	0.257	0.200	(##:	1.12	0.869			
179601-23-1	p/m-Xylene	0.744	0.400		3.23	1.74	::		
75-25-2	Bromoform	ND	0.200		ND	2.07	<u> (</u>	U	
100-42-5	Styrene	ND	0.200		ND	0.852		U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37		U	
95-47-6	o-Xylene	ND	0.200	1440	ND	0.869	244	U	
622-96-8	4-Ethyltoluene	ND	0.200	. *	ND	0.983		U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	3515	ND	0.983	3 <b>9.</b>	U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	-	ND	0.983		U	
100-44-7	Benzyl chloride	ND	0.200	-	ND	1.04	-	U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20		U	



Clie Proj Lab Clie San San Ana Lab	nt ject Name ID nt ID nple Location nple Matrix lytical Method File ID nple Amount	: CA RICH CON : VIA VERDE : L1909348-18 : IA-8 n : : AIR od : 48,TO-15 : R165182	SULTANTS	5, INC.		Lab N Projec Date C Date F Date J Dilutio Analys Instrui GC C	umber t Number Collected Received Analyzed n Factor st ment ID olumn	: L19 : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIR : BT	009348 08/19 12:38 11/19 17/19 02:30 1PIANO1 X-1	
oun				ppbV			ug/m3			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
106-46-7	1,4-Dichloro	benzene	ND	0.200		ND	1.20		U	
95-50-1	1,2-Dichlorobenzene 1,2,4-Trichlorobenzene		ND	0.200		ND	ND 1.20 ND 1.48		U	
120-82-1			ND	0.200		ND		-	U	
87-68-3	Hexachlorob	utadiene	ND	0.200		ND	2.13	-	U	



Client: CA RICH CONProject Name: VIA VERDELab ID: L1909348-18Client ID: IA-8Sample Location:Sample Matrix: AIRAnalytical Method: 48,TO-15-SIMLab File ID: R165182Sample Amount: 250 ml		SULTANTS	, INC.		Lab Nu Projec Date C Date F Date A Dilutio Analys Instrun GC Cc	umber t Number collected Received m Factor t n Factor t nent ID olumn ug/m3	: L19 : 03/0 : 03/1 : 03/1 : 1 : TS : AIR : RT)			
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	e	ND	0.020	-	ND	0.051	0 <b>010</b>	U	
10-30-4	r, r-Dichloro		ND	0.020	539	ND	0.079			
156-59-2	cis-1,2-Dichi	oroethene	ND	0.020		ND	0.079		U	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020	. 77	ND	0.109	ा <b>ग</b>	U	
56-23-5	Carbon tetra	chloride	0.071	0.020	-	0.447	0.126	्रम्म		
79-01 <b>-</b> 6	Trichloroethe	ene	ND	0.020		ND	0.107	2 <b>44</b>	U	
127-18-4	Tetrachloroe	thene	0.218	0.020		1.48	0.136	-		
540-59-0	1,2-Dichloro	ethene (total)	ND	0.020		ND	0.079	San	U	



Client : CA RICH CON Project Name : VIA VERDE Lab ID : L1909348-19 Client ID : IA-9 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165183 Sample Amount : 250 ml		SULTANTS	β, INC.		Lab Nu Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number collected teceived analyzed n Factor t nent ID olumn ug/m3	: L19 : 03/0 : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 03/ <sup>-</sup> : 1 : TS : AIR : RT)	009348 08/19 13:05 11/19 17/19 03:02 PIANO1 X-1		
CAS NO.	Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoron	nethane	0.313	0.200		1.55	0.989			
74-87-3	Chloromethane		0.556	0.200		1.15	0.413			
76-14-2	Freon-114		ND	0.200	**	ND	1.40		U	
106-99-0	1,3-Butadiene		ND	0.200	: <del>::::</del> :	ND	0.442	9 <del>55</del>	U	
74-83-9	Bromomethane		ND	0.200		ND	0.777		U	
75-00-3	Chloroethane		ND	0.200		ND	0.528		U	
64-17-5	Ethanol		86.4	5.00		163	9.42			
593-60-2	Vinyl bromide		ND	0.200		ND	0.874		U	
67-64-1	Acetone		4.74	1.00	(202) 	11.3	2.38			
75-69-4	Trichlorofluorome	ethane	ND	0.200		ND	1.12		U	
67-63-0	Isopropanol		61.4	0.500	-	151	1.23	-		
75-65-0	Tertiary butyl Alc	ohol	ND	0.500	<del></del> :	ND	1.52	-	U	
75-09-2	Methylene chlorid	le	ND	0.500	9 <b>4</b> 4	ND	1.74		U	
107-05-1	3-Chloropropene		ND	0.200		ND	0.626	-	U	
75-15-0	Carbon disulfide		ND	0.200		ND	0.623		U	
76-13-1	Freon-113		ND	0.200		ND	1.53	( <b>***</b> )	U	
156-60-5	trans-1,2-Dichlore	pethene	ND	0.200	sinden sinden sind Sinden sinden sinden Sinden sinden	ND	0.793		U	
75-34-3	1,1-Dichloroetha	10	ND	0.200	**	ND	0.809		U	
1634-04-4	Methyl tert butyl a	ether	ND	0.200	<b>11</b>	ND	0.721	: <b></b> ,	U	
78-93-3	2-Butanone		ND	0.500		ND	1.47		U	
141-78-6	Ethyl Acetate		ND	0.500	240	ND	1.80	-	U	
67-66-3	Chloroform		ND	0.200	2	ND	0.977		U	
109-99-9	Tetrahydrofuran		ND	0.500		ND	1.47	. <del></del>	U	in a second
107-06-2	1,2-Dichloroethar	10	ND	0.200	**	ND	0.809		U	
110-54-3	n-Hexane		ND	0.200		ND	0.705	1242	U	
71-43-2	Benzene		0.314	0.200	÷	1.00	0.639			



Client:CA RICH CONProject Name:VIA VERDELab ID:L1909348-19Client ID:IA-9Sample Location:Sample Matrix:Analytical Method:48,TO-15Lab File IDLab File Arnount:250 ml		SULTANTS	s, INC.		Lab Nu Projec Date C Date R Date A Dilution Analys Instrum GC Co	09348 08/19 13:05 11/19 17/19 03:02 PIANO1 K-1			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82-7	Cyclohexane	ND	0.200		ND	0.688	0 <b>000</b>	U	
78-87-5	1,2-Dichloropropane	ND	0.200		ND	0.924	-	U	
75-27-4	Bromodichloromethane	ND	0.200		ND	1.34		U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721	89 <del>40</del>	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	200	ND	0.934	244	U	
142-82-5	Heptane	ND	0.200	÷.	ND	0.820	2	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	्रम	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500	-	ND	2.05		U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	122	ND	0.908	2:	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	×.	ND	1.09	. (H	U	
108-88-3	Toluene	0.323	0.200	: <del></del>	1.22	0.754	San		
591-78-6	2-Hexanone	ND	0.200		ND	0.820		U	
124-48-1	Dibromochloromethane	ND	0.200	1910	ND	1.70	844	U	
106-93-4	1,2-Dibromoethane	ND	0.200	1	ND	1.54	÷	U	
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	346	U	
100-41-4	Ethylbenzene	0.436	0.200	()	1.89	0.869	3 <del>14</del>		
179601-23-1	p/m-Xylene	1.90	0.400	1996	8.25	1.74	2011		
75-25-2	Bromoform	ND	0.200		ND	2.07		U	
100-42-5	Styrene	ND	0.200	(##)	ND	0.852		U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	( <b>464</b> )	ND	1.37		U	
95-47-6	o-Xylene	0.692	0.200	-100	3.01	0.869			
622-96-8	4-Ethyltoluene	ND	0.200	:	ND	0.983		U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200		ND	0.983		U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983		U	11
100-44-7	Benzyl chloride	ND	0.200		ND	1.04		U	
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20	<u>.</u>	U	



Client: CA RICH (Project Name: VIA VERDLab ID: L1909348Client ID: IA-9Sample Location:Sample Matrix: AIRAnalytical Method: 48,TO-15Lab File ID: R165183Sample Amount: 250 ml		ISULTANTS	s, INC.		Lab Ne Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID olumn	: L19 r : : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIF : RT	: L1909348 : : 03/08/19 13:05 : 03/11/19 : 03/17/19 03:02 : 1 : TS : AIRPIANO1 : BTX-1		
•			ppbV			ug/m3				
CAS NO. Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier		
106-46-7 1,4-Dichloro	benzene	ND	0.200	2 <b></b>	ND	1.20		U		
95-50-1 1,2-Dichloro	benzene	ND	0.200	244	ND	1.20	( <b></b> )	U		
120-82-1 1,2,4-Trichla	robenzene	ND	0.200		ND	1.48		U		
87-68-3 Hexachlorob	Hexachlorobutadiene ND		0.200		ND	2.13	( <b></b> )	U		



Project Name : VIA VERDE Lab ID : L1909348-19 Client ID : IA-9 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15-SIM Lab File ID : R165183 Sample Amount : 250 ml		SULTANTS	s, INC.		Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column		: L1909348 : : 03/08/19 13:05 : 03/11/19 : 03/17/19 03:02 : 1 : TS : AIRPIANO1 : RTX-1			
CAS NO.	AS NO. Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	e	ND	0.020	-	ND	0.051	1	U	
75-35-4	1,1-Dichloro	ethene	ND	0.020	æ	ND	0.079	æ.,	U	
156-59-2	cis-1,2-Dichl	oroethene	ND	0.020	<b></b>	ND	0.079	i <del>nn</del> :	U	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020		ND	0.109	1999	U	
56-23-5	Carbon tetra	chloride	0.071	0.020		0.447	0.126	122		
79-01-6	Trichloroethene		ND	0.020	<b>11</b>	ND	0.107	*	U	
127-18-4	Tetrachloroe	Tetrachloroethene		0.020		0.278	0.136	: <del></del>		
540-59-0	0 1,2-Dichloroethene (total)		ND	0.020	(init)	ND	0.079	(	U	



Client Projec Lab II Client Samp Samp Analy Lab F Samp	Project Name : VIA VERDE Lab ID : L1909348-20 Client ID : IA-10 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165184 Sample Amount : 250 ml		bobV		Lab Nu Projec Date C Date F Date A Dilution Analys Instrun GC Cc	umber t Number collected Received analyzed n Factor st nent ID olumn	: L19 : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIF : RT		
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
75-71-8	Dichlorodifluoromethane	0.326	0.200		1.61	0.989			
/4-8/-3	Chloromethane	0.518	0.200		1.07	0.413			
76-14-2	Freon-114	ND	0.200	d154	ND	1.40		U	
106-99-0	1,3-Butadiene	ND	0.200		ND	0.442	•	U	
74-83-9	Bromomethane	ND	0.200		ND	0.777	-	U	
75-00-3	Chloroethane	ND	0.200		ND	0.528		U	
64-17-5	Ethanol	83.0	5.00		156	9.42	1.5		
593-60-2	Vinyl bromide	ND	0.200	**	ND	0.874		U	-
67-64-1	Acetone	6.39	1.00	<b></b> :	15.2	2.38	1921		
75-69-4	Trichlorofluoromethane	0.212	0.200	**	1.19	1.12	•		
67-63-0	Isopropanol	47.9	0.500	<b>11</b> .)	118	1.23	100		
75-65-0	Tertiary butyl Alcohol	ND	0.500		ND	1.52		U	
75-09-2	Methylene chloride	14.2	0.500	1127	49.3	1.74	- 112		
107-05-1	3-Chloropropene	ND	0.200		ND	0.626	-	U	
75-15-0	Carbon disulfide	ND	0.200	505	ND	0.623	100	U	
76-13-1	Freon-113	ND	0.200		ND	1.53	эн:	U	
156-60-5	trans-1,2-Dichloroethene	ND	0,200	99-1	ND	0.793	-	U	
75-34-3	1,1-Dichloroethane	ND	0.200		ND	0.809		U	
1634-04-4	Methyl tert butyl ether	ND	0.200		ND	0.721	-	U	
78-93-3	2-Butanone	ND	0.500	**	ND	1.47	<b></b>	U	
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80		U	
67-66-3	Chloroform	ND	0.200		ND	0.977		U	
109-99-9	Tetrahydrofuran	ND	0.500		ND	1.47	(44)	U	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809		U	1
110-54-3	n-Hexane	ND	0.200	1113) 1113)	ND	0.705		U	
71-43-2	Benzene	0.262	0.200	-	0.837	0,639			
				10752			1005		



Client Projec Lab ID Client Samp Samp Analyt Lab Fi Samp	: CA RICH CON t Name : VIA VERDE D : L1909348-20 ID : IA-10 le Location : le Matrix : AIR tical Method : 48,TO-15 ile ID : R165184 le Amount : 250 ml	ISULTANTS	s, INC.		Lab Ne Projec Date C Date F Date A Dilutio Analys Instrur GC Co	09348 )8/19 12:34  1/19  7/19 03:34 PIANO1 (-1			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82-7	Cyclohexane	ND	0.200		ND	0.688		U	
78-87-5	1,2-Dichloropropane	ND	0.200	374	ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200	2.777	ND	1.34	1.00	U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721		U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934		U	
142-82-5	Heptane	ND	0.200		ND	0.820		U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200		ND	0.908	877	U	
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05	:	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908	5 <b>11</b>	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200	-	ND	1.09	÷	U	
108-88-3	Toluene	0.388	0.200		1.46	0.754	388		
591-78-6	2-Hexanone	ND	0.200		ND	0.820		U	
124-48-1	Dibromochloromethane	ND	0.200	-	ND	1.70	1214	U	
106-93-4	1,2-Dibromoethane	ND	0.200	*	ND	1.54	Ξ.	U	
108-90-7	Chlorobenzene	ND	0.200		ND	0.921	200	U	
100-41-4	Ethylbenzene	ND	0.200		ND	0.869		U	
179601-23-1	p/m-Xylene	ND	0.400	42	ND	1.74		U	
75-25-2	Bromoform	ND	0.200	<u>.</u>	ND	2.07		U	
100-42-5	Styrene	ND	0.200	:सनः	ND	0.852		U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37	-	U	
95-47-6	o-Xylene	ND	0.200		ND	0.869	222	U	
622-96-8	4-Ethyltoluene	ND	0.200		ND	0.983	-	U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200		ND	0.983		U	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200		ND	0.983		U	<u>*************************************</u>
100-44-7	Benzyl chloride	ND	0.200	-	NÐ	1.04	-	U	4
541-73-1	1,3-Dichlorobenzene	ND	0.200		ND	1.20		U	



Project NameProject NameLab IDClient IDSample LocationSample MatrixAnalytical MethodLab File IDSample Amount		: CA RICH CON : VIA VERDE : L1909348-20 : IA-10 : : AIR : 48,TO-15 : R165184 : 250 ml	SULTANTS	6, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instru GC Co	umber t Number Collected Received Analyzed n Factor st nent ID olumn	: L19 : 03// : 03/ : 03/ : 03/ : 1 : TS : AIR : RT2	: L1909348 : : 03/08/19 12:34 : 03/11/19 : 03/17/19 03:34 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	Parameter		Results	ppbV RL	MDL	Results	ug/m3 RL	MDL	Qualifier		
106-46-7 95-50-1	1,4-Dichloro	penzene	ND	0.200		ND ND	1.20 1.20	S mm	UU		
120-82-1 1,2,4-Trichlore 87-68-3 Hexachlorobu		robenzene	ND	0.200	<u></u>	ND	1.48	يانيان يوني	U		
		utadiene	ND	0.200		ND	2.13	8 <b>43</b>	U		



Client: CA RICH CONSProject Name: VIA VERDELab ID: L1909348-20Client ID: IA-10Sample Location:Sample Matrix: AIRAnalytical Method: 48,TO-15-SIMLab File ID: R165184Sample Amount: 250 ml			SULTANTS	b, INC.		Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column ug/m3		: L1909348 : : 03/08/19 12:34 : 03/11/19 : 03/17/19 03:34 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	S NO. Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	e	ND	0.020	: <del></del>	ND	0.051	3 <del>10</del>	U	
75-35-4	1,1-Dichloro	ethene	ND	0.020	-	ND	0.079		U	
156-59-2	cis-1,2-Dichl	oroethene	ND	0.020		ND	0.079	22	U	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020		ND	0.109	172	U	
56-23-5	Carbon tetra	chloride	0.069	0.020	-	0.434	0.126			
79-01-6	Trichloroethe	Trichloroethene		0.020	-	ND	0.107	124	U	
127-18-4	Tetrachloroe	Tetrachloroethene		0.020		0.325	0.136			
540-59-0	1,2-Dichloro	ethene (total)	ND	0.020		ND	0.079		U	



Clier Proje Lab Clier Sam Sam Anal Lab Sam	nt : CA RICH CON ect Name : VIA VERDE ID : L1909348-21 nt ID : OA-1 ple Location : ple Matrix : AIR ytical Method : 48,TO-15 File ID : R165185 ple Amount : 250 ml	ISULTANTS	6, INC.		Lab No Projec Date C Date F Date A Dilutio Analys Instrur GC Cc	umber t Number Collected Received Analyzed n Factor st nent ID plumn	: L19 : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIR : RT		
	Daramotor	Poeulte	ppbV	MDI	Poculte	ug/m3	MDI	Qualifier	
CAS NO.	Falametei	nesuits			nesuits	<u>n</u> L	MDL	Quanner	
75-71-8	Dichlorodifluoromethane	0.255	0.200		1.26	0.989	-		
74-87-3	Chloromethane	0.500	0.200		1.03	0.413	9 <b>44</b>		
76-14-2	Freon-114	ND	0.200	-	ND	1.40	100	U	
106-99-0	1,3-Butadiene	ND	0.200	<del></del>	ND	0.442		U	
74-83-9	Bromomethane	ND	0.200		ND	0.777	:: <del>::::</del>	U	
75-00-3	Chloroethane	ND	0.200	:22	ND	0.528	20 <del>00</del>	U	
64-17-5	Ethanol	8.14	5.00		15.3	9,42	2		
593-60-2	Vinyl bromide	ND	0.200	5.01	ND	0.874	2.55	U	
67-64-1	Acetone	1.48	1.00	)##	3.52	2.38			
75-69-4	Trichlorofluoromethane	0.204	0.200	:##	1.15	1.12			
67-63-0	Isopropanol	0.685	0.500		1.68	1.23			
75-65-0	Tertiary butyl Alcohol	ND	0.500	-55	ND	1.52		U	
75-09-2	Methylene chloride	ND	0.500	-	ND	1.74	-	U	
107-05-1	3-Chloropropene	ND	0.200	-	ND	0.626	844	U	
75-15-0	Carbon disulfide	ND	0.200		ND	0.623		U	
76-13-1	Freon-113	ND	0.200		ND	1.53	1.775	U	
156-60-5	trans-1,2-Dichloroethene	ND	0.200	( <del>***</del> )	ND	0.793		U	
75-34-3	1,1-Dichloroethane	ND	0.200	1 <u>42</u> (	ND	0.809	3222	U	
1634-04-4	Methyl tert butyl ether	ND	0.200	••	ND	0.721		U	
78-93-3	2-Butanone	ND	0.500	1997 - C	ND	1.47	352	U	
141-78-6	Ethyl Acetate	ND	0.500		ND	1.80	-	U	
67-66-3	Chloroform	ND	0.200		ND	0.977		U	
109-99-9	Tetrahydrofuran	ND	0.500	••	ND	1.47		U	
107-06-2	1,2-Dichloroethane	ND	0.200		ND	0.809	-	U	
110-54-3	n-Hexane	ND	0.200		ND	0.705	348	U	
71-43-2	Benzene	0.225	0.200	<u>.</u>	0.719	0.639			



Client Projec Lab ID Client Sampl Sampl Analyt Lab Fi Sampl	Project Name : VIA VERDE Lab ID : L1909348-21 Client ID : OA-1 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165185 Sample Amount : 250 ml		S, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instrur GC Co	09348 08/19 12:23 11/19 17/19 09:49 PIANO1 K-1			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	
110-82-7	Cyclohexane	ND	0.200		ND	0.688		U	
78-87-5	1,2-Dichloropropane	ND	0.200	-	ND	0.924		U	
75-27-4	Bromodichloromethane	ND	0.200	-	ND	1.34	122	U	
123-91-1	1,4-Dioxane	ND	0.200		ND	0.721	0.0	U	
540-84-1	2,2,4-Trimethylpentane	ND	0.200		ND	0.934		U	
142-82-5	Heptane	ND	0.200		ND	0.820	5 <b>40</b>	U	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	<u>.</u>	ND	0.908		U	
108-10-1	4-Methyl-2-pentanone	ND	0.500		ND	2.05	-77	U	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200		ND	0.908	्रम्स	U	
79-00-5	1,1,2-Trichloroethane	ND	0.200		ND	1.09		U	
108-88-3	Toluene	ND	0.200		ND	0.754		U	
591-78-6	2-Hexanone	ND	0.200	-	ND	0.820	-	U	
124-48-1	Dibromochloromethane	ND	0.200		ND	1.70		U	
106-93-4	1,2-Dibromoethane	ND	0.200	-	ND	1.54		U	
108-90-7	Chlorobenzene	ND	0.200	-	ND	0.921		U	
100-41-4	Ethylbenzene	ND	0.200		ND	0.869	-	U	
179601-23-1	p/m-Xylene	ND	0.400		ND	1.74	3 <del>311</del>	U	
75-25-2	Bromoform	ND	0.200	447	ND	2.07		U	
100-42-5	Styrene	ND	0.200	2	ND	0.852		U	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37	-	U	
95-47-6	o-Xylene	ND	0.200		ND	0.869	-	U	
622-96-8	4-Ethyltoluene	ND	0.200		ND	0.983		U	
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	H)	ND	0.983		U	
95-63-6	1,2,4-Trimethylbenzene	ND	0,200	<del></del> :	ND	0.983		U	
100-44-7	Benzyl chloride	ND	0.200	**)	ND	1.04		U	
541-73 <b>-1</b>	1,3-Dichlorobenzene	ND	0.200	927	ND	1.20		U	
3									_



Clier Proje Lab Clier Sam Sam Anal Lab	Project Name : VIA VERDE Lab ID : L1909348-21 Client ID : OA-1 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15 Lab File ID : R165185 Sample Amount : 250 ml			5, INC.		Lab N Projec Date C Date F Date A Dilutio Analys Instru	umber t Number Collected Received Analyzed n Factor st ment ID	: L19 : 03/ : 03/ : 03/ : 03/ : 03/ : 1 : TS : AIR	: L1909348 : : 03/08/19 12:23 : 03/11/19 : 03/17/19 09:49 : 1 : TS : AIRPIANO1		
Sample Amount : 250 mi		. 250 mi		anh1/				§ ΠL	A-1		
CAS NO.	Parameter		Results	RL	MDL	Results	ug/m3 RL	MDL	Qualifier		
106-46-7	1,4-Dichloro	benzene	ND	0.200	<b></b> )	ND	1.20	9 <del>70</del>	U		
95-50-1	1,2-Dichloro	benzene	ND	0.200		ND	1.20		U		
120-82-1	20-82-1 1,2,4-Trichlorobenzene 7-68-3 Hexachlorobutadiene		ND	0.200		ND	1.48		U		
87-68-3			ND	0.200	**	ND	) 2.13	-	U	hand and a second s	
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Client : CA RICH CO Project Name : VIA VERDE Lab ID : L1909348-2 Client ID : OA-1 Sample Location : Sample Matrix : AIR Analytical Method : 48,TO-15-S Lab File ID : R165185 Sample Amount : 250 ml		: CA RICH CONS : VIA VERDE : L1909348-21 : OA-1 : : AIR : 48,TO-15-SIM : R165185 : 250 ml	SULTANTS	b, INC.		Lab Number Project Number Date Collected Date Received Date Analyzed Dilution Factor Analyst Instrument ID GC Column ug/m3		: L1909348 : : 03/08/19 12:23 : 03/11/19 : 03/17/19 09:49 : 1 : TS : AIRPIANO1 : RTX-1		
CAS NO.	AS NO. Parameter		Results	RL	MDL	Results	RL	MDL	Qualifier	
75-01-4	Vinyl chlorid	e	ND	0.020		ND	0.051	(1 <del>11)</del> )	U	
75-35-4	1,1-Dichloro	ethene	ND	0.020	(##)	ND	0.079	2443	U	
156-5 <b>9-2</b>	cis-1,2-Dichl	oroethene	ND	0.020	-	ND	0.079	189	U	
71-55-6	1,1,1-Trichlo	roethane	ND	0.020		ND	0.109	0.06	U	
56-23-5	Carbon tetra	chloride	0.065	0.020	-	0.409	0.126	(a <del>nd</del> a		
79-01-6	Trichloroethe	e	ND	0.020	144	ND	0.107	2 <b></b> 2	U	
127-18-4	Tetrachloroe	thene	0.024	0.020	-	0.163	0.136	-		
540-59-0	1,2-Dichloro	ethene (total)	ND	0,020	; <del></del>	ND	0.079		U	

