



Phase II Environmental Site Assessment Report

**23591 El Toro Road and 24551 Raymond Way
Lake Forest, California**

**Converse Project No. 19-42-162-02
August 6, 2019
Revised April 21, 2020**

Prepared For:

**National Community Renaissance of California
9421 Haven Avenue
Rancho Cucamonga, California 91730**

Prepared By:

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Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

August 6, 2019

Revised April 21, 2020

National Community Renaissance of California
9421 Haven Avenue
Rancho Cucamonga, California 91730

Attention: Ms. Lorna Contreras
lcontreras@nationalcore.org

Subject: **PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**
23591 El Toro Road and 24551 Raymond Way
Lake Forest, California
Converse Project No. 19-42-162-02

Ms. Contreras:

Converse Consultants (Converse) is pleased to submit the attached report that summarizes the activities and the results of a *Phase II Environmental Site Assessment (Phase II ESA)* that was conducted at the referenced property.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact Michael Van Fleet or Norman Eke at (626) 930-1267 or (626) 930-1260, respectively.

CONVERSE CONSULTANTS

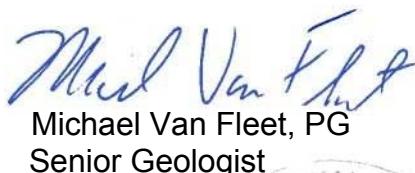


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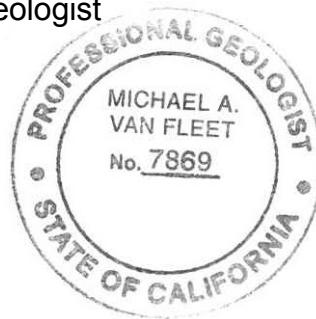


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1.0 Introduction

This report presents the results of the Converse Phase II Environmental Site Assessment (ESA) performed at 23591 El Toro Road and 24551 Raymond Way in the City of Lake Forest, Orange County, California, referred to as the Site in this report. Converse was retained by National Community Renaissance of California (National CORE) to conduct this Phase II ESA.

Converse performed a Phase I ESA at the Site and summarized the findings in a Phase I ESA dated July 5, 2019, revised April 21, 2020. The assessment revealed no evidence of recognized environmental conditions (RECs) in connection with the Site except for the following:

- The ongoing open site investigation of tetrachloroethylene (PCE) contaminated soil, soil-vapor, and groundwater on the southern/southwestern adjoining property (24601 Raymond Way).

Based on the findings of that Phase I ESA, Converse recommended further assessment to evaluate if the unauthorized release of PCE on the southern/southwestern adjoining property has impacted the Site.



2.0 Background

2.1 Site Description and Features

Details in the following sections regarding the Site and surrounding areas were obtained from the Converse Phase I ESA dated April 21, 2020.

2.1.1 Current Uses of the Site

The Site is owned by Kircher Family Partners, and is developed with two (2) commercial office buildings.

2.1.2 Location and Legal Description

The Site is located at 23591 El Toro Road and 24551 Raymond Way, Lake Forest, California. The Site is located north of the intersection of El Toro Road and Raymond Way. The Site is located approximately 0.56-miles northeast of Interstate 5 (San Diego Freeway). The Site consists of one (1) parcel of land and is approximately 3.76-acres in area. The Orange County Assessor's Parcel Number (APN) for the Site is 617-441-02. The location of the Site is indicated on **Figure 1**.

2.1.3 Site and Vicinity General Characteristics

The Site consists of one (1) single L-shaped parcel (APN 617-441-02) totaling 3.76 acres. The Site is generally level with asphalt-paved parking and is developed with two (2) two-story commercial office buildings. The Site fronts onto El Toro Road to the southeast, and Raymond Way to the northwest, with the proposed development project fronting onto Raymond Way. Properties in the general area are used for commercial and residential purposes.

2.2 Physical Setting

2.2.1 Topography

The Site is located approximately 400 feet above mean sea level with surface topography sloping towards the north/northeast (United States Geological Survey [USGS] Topographic Map, Lake Forest, CA).

2.2.2 Geology

The Site is underlain by unconsolidated and semi-consolidated alluvium, lake, playa, and terrace deposits (Division of Mines and Geology, geologic Map of California, 2010).



2.2.3 Hydrogeology

According to data obtained from the State Water Resources Control Board's Geotracker database, results of groundwater monitoring on the southwestern/western adjoining property indicate that groundwater levels in March of 2019 were measured to be between 19 and 26 feet beneath ground surface (bgs). Groundwater flow direction was measured to be to the northeast.

2.3 Site History and Land Use

From as early as 1931 to 1974, the majority of the Site was undeveloped land. During that time period, a strip of land located along the southeastern property boundary was developed for agricultural use. The Site was developed with the two (2) existing commercial office buildings and associated parking lots in 1977.

2.4 Adjacent Property Land Use

North:	Residential
Northeast:	Residential
Northwest:	Raymond Way followed by residential.
South:	Commercial shopping center (24601 Raymond Way).
Southeast:	El Toro Road followed by commercial shopping center (23512-23532 El Toro Road).
Southwest:	Commercial shopping center (24601 Raymond Way).
East:	El Toro Road followed by commercial shopping center (23512-23532 El Toro Road).
West:	Raymond Way followed by US Post Office (24552 Raymond Way).



2.5 Summary of Previous Assessment Reports

Converse performed a Phase I ESA at the Site and summarized the results in a Phase I ESA Report dated April 21, 2020. The assessment revealed no evidence of RECs in connection with the Site except for the following:

- The ongoing open site investigation of PCE contaminated soil, soil-vapor, and groundwater on the southern/southwestern adjoining property (24601 Raymond Way).

Based on the findings of Phase I ESA, Converse recommended further assessment to evaluate if the unauthorized release of PCE on the southern/southwestern adjoining property has impacted the Site.



3.0 Work Performed and Rationale

3.1 Scope of Assessment

A conceptual model was developed based on data obtained from the prior assessment reports.

3.1.1 Target Analytes

Information gathered from the Phase I ESA completed by Converse indicated presence of elevated concentrations of PCE in soil, soil-vapor, and groundwater at locations approximately 20 to 25 feet from the boundary of the Site.

3.1.2 Target Analytes First Entered the Environment

The target analytes would have first entered the environment by surface spills, equipment leaks or releases to the surface soil.

3.1.3 Environmental Media and Locations Most Likely to Have the Highest Concentrations of Target Analytes

The environmental media most likely to have the highest concentrations of the target analytes are soil and soil vapor.

This *Phase II ESA* consisted of the following primary elements:

- Evaluate the potential for volatile organic compounds (VOCs) in the shallow subsurface soil vapor and indoor air due to known contamination originating from the adjoining property related to historic uses of that property.
- Identify if potential target analytes are present at concentrations greater than threshold criteria.

3.2 Soil Vapor Sample Collection

Five (5) borings were advanced to 15 feet bgs, and two (2) additional borings were advanced to 5 feet bgs. All borings were completed using direct push technology. Four (4) of the 15-foot borings were located in the courtyard (SV1) and around the perimeter (SV2, SV3, and SV4) of the Site building located at 23591 El Toro Road. One (1) 15-foot boring (SV5) was located around the perimeter of the Site building located at 24551 Raymond Way. The two (2) 5-foot borings (SV6 and SV7) were



installed in the parking area between the two onsite buildings. Sample locations are indicated on **Figure 2**.

Soil vapor probes were installed in each of the borings at depths of 5 and/or 15 feet bgs (12 probes total). Soil vapor sampling was conducted in general accordance with CalEPA Active Soil Gas Advisory dated July 2015. Soil vapor samples were collected no sooner than 2 hours after the probes were installed to allow subsurface conditions to equilibrate. Vapor samples were collected in glass syringes and analyzed in an onsite mobile laboratory.

3.3 Indoor/Outdoor Air Sample Collection

Indoor Air Samples were collected from four (4) locations in ground-floor units of the Site buildings (3 at 23591 El Toro Road (IA-1, IA-2, and IA-3), and 1 at 24551 Raymond Way (IA-4)). Samples of the outdoor air were also collected from the courtyard area of each of the two (2) Site buildings (OA-1 and OA-2) to evaluate background concentrations. Sample locations are indicated on **Figure 2**. All indoor/outdoor ambient air samples were collected in 6-liter summa canisters over an approximate 24-hour period.

3.4 Field Quality Assurance/Quality Control

The following are some of the quality assurance and quality control measures that were taken to evaluate the quality of the data generated:

- Standard EPA sample handling protocol including chain-of-custody control were followed.
- New dedicated sampling equipment (Teflon tubing) were used for the collection of samples.

3.5 Chemical Analytical Methods

The soil vapor samples were analyzed onsite for VOCs in accordance with EPA Method 8260B by A&R Laboratories, Inc. (A&L) using a mobile laboratory. A&L is certified by the State of California Department Health Services for the analyses conducted.

The indoor/outdoor air samples were submitted under chain of custody documentation to Pace Analytical in Mount Juliet, Tennessee for analysis for VOCs in accordance with EPA Method TO-15. The laboratory is certified by the State of California Department Health Services for the analyses conducted.



4.0 Presentation and Evaluation of Results

4.1 Subsurface Conditions

Groundwater was not encountered in any of the borings completed to a maximum depth of 15 feet bgs during this assessment.

4.2 Analytical Results

A summary of the results is provided below. Soil vapor and indoor/outdoor air sample results are summarized on **Tables 1 and 2**, respectively. Copies of the laboratory analytical reports are included in **Appendix A**.

Indoor air screening levels presented in the department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA) Notes #3 and #5, and/or EPA Regional Screening Levels (RSLs) were used for the evaluation of reported concentrations. Screening levels for the compounds reported in the soil vapors were calculated using an attenuation factor of 500 (DTSC Vapor Intrusion Guidance, October 2011) applied to Indoor Air screening levels.

4.2.1 Soil Vapor Samples

Benzene, Toluene, Ethylbenzene, and m,p-Xylenes (BTEX) were the only analytes detected in soil vapor samples. These analytes were detected in both of the shallow borings SV6-5' and SV7-5' completed within the parking lot. No VOCs were reported in any of the soil vapor samples collected from locations adjacent to the onsite structures.

With the exception of benzene, all reported concentrations of BTEX were less than their respective screening level. Benzene was reported in samples SV6-5 and SV7-5 at concentrations of 160 and 150 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), respectively. These concentrations are greater than the screening level for residential land use of $48.5 \mu\text{g}/\text{m}^3$, but are less than the screening level for commercial land use of $210 \mu\text{g}/\text{m}^3$.

4.2.2 Indoor/Outdoor Air Samples

The following seven (7) VOCs were reported in one or more of the four (4) indoor/outdoor air samples and two (2) outdoor air sample: Chloromethane, Ethanol, Trichlorofluoromethane (Freon 11), Dichlorodifluoromethane (Freon 12), methylene chloride, toluene, and styrene.

The maximum concentrations of all reported compounds in indoor and outdoor air samples are significantly less than their respective screening



levels for residential and commercial land use. It is noted that no screening levels are published for ethanol.

4.3 Data Quality Assurance/Quality Control

4.3.1 Hold Times

All soil vapor and indoor/outdoor air samples were transported to the laboratories under chain-of-custody documentation and were analyzed within appropriate hold times.

4.3.2 Laboratory Quality Assurance

The laboratories provided data to estimate precision, accuracy, and bias. The laboratory reports indicated that the method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives for soil and soil vapor.

4.3.3 Practical Quantitation Limits

Practical quantitation limits (PQL) and method detection limits (MDL) for soil vapor and indoor/outdoor air samples were provided by the laboratories and are included on the reports in **Appendix A**.



5.0 Interpretation and Conclusions

5.1 RECs and Potential Release Area(s)

Converse performed a Phase I ESA at the Site and summarized the findings in a Phase I ESA dated April 21, 2020. The assessment revealed no evidence of recognized environmental conditions (RECs) in connection with the Site except for the following:

- The ongoing open site investigation of PCE contaminated soil, soil-vapor, and groundwater on the southern/southwestern adjoining property (24601 Raymond Way).

5.2 Conceptual Model Validation/Adequacy of Investigations

It is our opinion that the field and analytical data validated the conceptual model, and the investigation adequately evaluated the identified objectives of this *Phase II ESA Report*.

5.3 Absence, Presence, Degree, Extent of Target Analytes

Based upon the results of the *Phase II ESA*, there appear to be no significant impacts to the Site with regard to VOCs originating from the adjoining property related to historic uses of that property.

PCE, a compound associated with historic dry cleaning operations, and known to be present on the adjoining property from historic releases, was not detected in any of the soil vapor or ambient air samples collected from the Site.

Several of the VOCs detected in indoor air samples are commonly associated with refrigerants. These compounds are not of concern at the concentrations reported.

BTEX, which were reported in soil vapor samples from borings SV6 and SV7, located within the parking lot, are likely related to the asphalt cover of the lot, or from minor fuel leaks from cars parked in the lot. Benzene does not pose a vapor intrusion risk to the Site in its current configuration since the detections of it were limited to the parking lot where there are not currently any occupied structures. Benzene was not detected in any of the samples around current structures.



It is our opinion that these reported benzene detections will also not pose a significant vapor intrusion risk to potential future redevelopment of the Site based on the following:

- The screening levels used in this report were calculated based on current development of the Site. The screening level for benzene would change from 48.5 to 97 ug/m³ if we assume future redevelopment of the Site, which would bring the reported concentrations (150 and 160 ug/m³) much closer to the revised screening level of 97 ug/m³. An exceedance of a screening level is not an automatic indicator that there is an unacceptable risk, instead, it may simply indicate that the condition requires further evaluation.
- Further evaluation of exceedances may include looking at the potential effects of redevelopment. If there is a plan to redevelop the site and place structures in the area of the current parking lot, it is presumed that redevelopment activities (over excavation and recompacting) will result in at least a minor reduction in concentrations, likely to below the current screening level. Also, the potential sources of the benzene will be removed (asphalt and/or vehicles), preventing future impacts.

5.4 Other Concerns

5.4.1 Significant Assumptions

No significant assumptions were made during this assessment.

5.4.2 Limitations and Exceptions

No limitations or exceptions were encountered during the course of this *Phase II ESA*.

5.4.3 Special Terms and Conditions

No special terms or conditions need to be noted in this *Phase II ESA* report.

5.5 Conclusions/Objectives Met

Converse has performed a *Phase II ESA* at 23591 El Toro Road and 24551 Raymond Way, Lake Forest, California in conformance with the scope and limitations of ASTM, E1903-11 and the following objectives:

- Evaluate the potential for volatile organic compounds (VOCs) in the shallow subsurface soil vapor and indoor air due to known contamination originating from the adjoining property related to historic uses of that property.



- Identify if potential target analytes are present at concentrations greater than threshold criteria.

Converse presents the following finds from this assessment:

- The maximum concentrations of all reported VOCs in the indoor and outdoor air samples were less than their respective screening levels for residential and commercial land use.
- No VOCs were reported in any of the soil vapor samples collected from locations adjacent to the onsite structures (SV1 through SV5).
- Concentrations of BTEX were reported in both of the soil vapor samples from borings located in the parking lot (SV6 and SV7). With the exception of benzene, all reported BTEX concentrations were less than their respective screening level. The benzene concentrations of 160 and 150 ug/m³ are greater than the screening level for residential land use of 48.5 ug/m³, but are less than the screening level for commercial land use of 210 ug/m³.

Based on these findings Converse concludes the following:

- The Site does not appear to be impacted from known PCE contamination originating from the adjoining property.
- Several of the VOCs detected in indoor and outdoor air samples are commonly associated with refrigerants. All reported VOC concentrations in the indoor air samples are less than their respective screening levels for residential land use.
- There are no environmental concern related to the potential use of current Site building for residential purposes.
- The maximum reported concentrations of BTEX in soil vapor samples are relatively typical of conditions beneath an asphalt paved parking lot, and are not considered to be a significant concern. The concentrations are less than the commercial screening level, which is acceptable for the current, and reported planned continued future, use as a parking lot. If the proposed development plans change and the areas where borings SV6 and SV7 were located are intended to be developed for use as something other than parking lots, it is expected that concentrations would be reduced by activities such as grading, over excavation, and recompaction. Additionally, it is noted that the potential health risk to future Site occupants posed by the current concentrations is well within discretionary risk management levels.
- It is our opinion that the objectives of the Phase II ESA were met, and no additional assessment is necessary to assess the objectives of the Phase II ESA.



6.0 Recommendations

It is our opinion that no additional assessment is necessary to address the objectives of the Phase II ESA



7.0 Reliance

This report is for the sole benefit and exclusive use of National CORE accordance with the terms and conditions under which these services have been provided. The preparation of this report has been in accordance with generally accepted environmental practices. No other warranty, either express or implied, is made. This report should not be regarded as a guarantee that no further contamination beyond that which could be detected within the scope of this assessment is present at the Site.

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Site. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Site. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the Site at the time of the assessment. Also, events may occur after the Site visit, which may result in contamination of the Site. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk. Should National CORE wish to identify any additional relying parties not previously identified, a completed Application of Authorization to Use (see following page) must be submitted to Converse Consultants.





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Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

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8.0 References and Sources of Information

California State Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board (RWQCB), Los Angeles Region, Advisory-Active Soil Gas Investigations, July 2015.

Converse Consultants, Phase I Environmental Site Assessment Report, 23591 El Toro Road and 24551 Raymond Way, Lake Forest, California, July 5, 2019, revised April 21, 2020.

DTSC, Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance), October 2011.

DTSC, Human Health Risk Assessment (HHRA) Note Number 3, DTSC Modified Screening, April 2019.

DTSC, Human Health Risk Assessment (HHRA) Note Number 5, Health-based Indoor Air Screening Criteria for Trichloroethylene (TCE), August 2014.

USEPA, Regional Screening Levels, May 2019.



Figures

Figures



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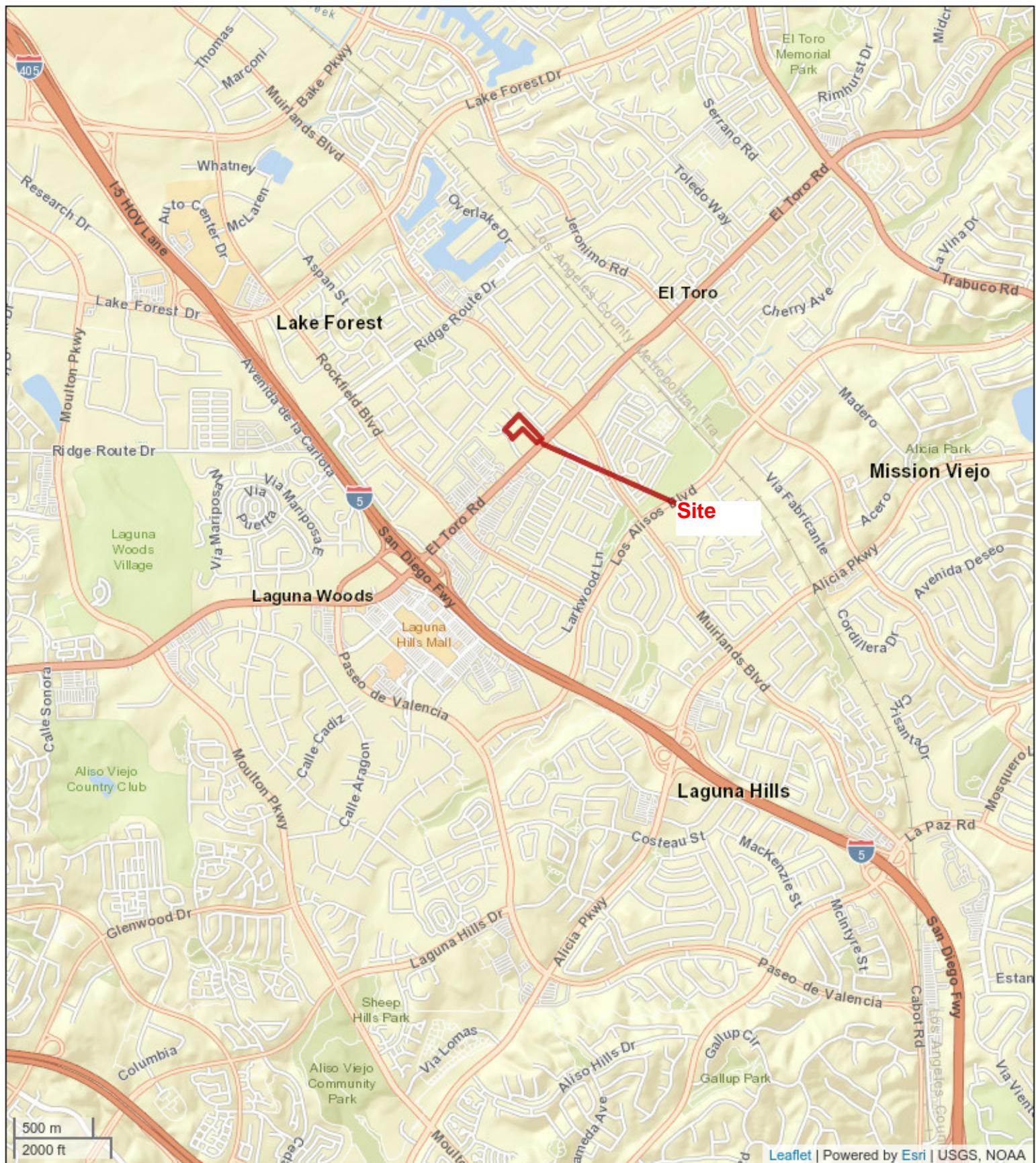


Figure 1 - Property Location Map

National Core

23591 El Toro Road and 24551 Raymond Way

Lake Forest, California





Indoor Air Sample Locations



Soil Boring Locations



Outdoor Air Sample Locations



Samples Locations

23591 El Toro Road and 24551 Raymond Way
Lake Forest, California



Converse Consultants

Project No:
19-42-162-02

FIGURE 2

Tables

Tables



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Table 1
Soil Vapor Sample Analytical Results
 2391 El Toro Road and 24551 Raymond Way
 Lake Forest, California

Sample	Sample Date	Benzene (ug/m ³)	Ethylbenzene (ug/m ³)	Toluene (ug/m ³)	m,p-Xylenes (ug/m ³)	All Other VOCs
SV1-5'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV1-15'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV2-5'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV2-15'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV3-5'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV3-15'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV4-5'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV4-15'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV5-5'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV5-15'	7/19/2019	<0.0250	<0.050	<0.050	<0.10	ND
SV6-5'	7/19/2019	160	60	80	120	ND
SV7-5'	7/19/2019	150	60	70	100	ND
Maximum Concentration ug/m ³		160	60.00	80.00	120	--
Indoor Air Screening Level ug/m ³	Residential	0.097	1,000	310	100	
	Commercial / Industrial	0.42	4,400	1,300	440	--
Attenuation Factor (existing residential construction)		500	500	500	500	--
Soil Vapor Screening Level ug/m ³	Residential	48.5	500,000	155,000	50,000	--
	Commercial / Industrial	210	2,200,000	650,000	220,000	--

Screening levels for indoor air based on DTSC Human Health Risk Assessment (HHRA) Note 3, Table 3, or RSLs.
 ug/m³ micrograms per cubic meter

ND Not detected

RSL EPA Regional Screening Level

VOCs Volatile Organic Compounds

Table 2
Indoor and Outdoor Air Analytical Results
 23591 El Toro Road and 24551 Raymond WAY
 Lakeforest, California

Sample	IA-1	IA-2	IA-3	IA-4	OA-1	OA-2	Maximum Concentration (ug/m ³)	Indoor Air Screening Level (ug/m ³)	
								Residential	Commercial / Industrial
Sample Date	07/18/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019	07/18/2019			
CHLOROMETHANE	1.54	1.58	1.28	1.56	0.983	1.03	1.58	94	390
ETHANOL	618	313	326	617	10.2	17.1	618	--	--
TRICHLOROFLUOROMETHANE (FREON 11)	1.53	1.54	1.41	1.41	1.54	1.51	1.54	1,300	5,300
DICHLORODIFLUOROMETHANE (FREON 12)	2.86	2.37	2.70	2.74	1.68	1.76	2.86	100	4,400
METHYLENE CHLORIDE	<0.983	1.18	<0.694	<0.694	6.71	<0.694	6.71	420	1,800
STYRENE	<0.851	<0.851	2.95	<0.851	<0.851	<0.851	2.95	940	3,900
TOLUENE	1.30	1.74	1.84	1.41	1.53	<0.753	1.84	310	1300
ALL OTHER VOCs	ND	ND	ND	ND	ND	ND	--	--	--

Indoor air screening levels presented in DTSC Human Health Risk Assessment (HHRA) Notes #3 and #5, and/or EPA Regional Screening Levels (RSLs) were used

ug/m³ micrograms per cubic meter

ND Not detected

Analytical Reports

Appendix A



ANALYTICAL REPORT

July 24, 2019

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Ds
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Converse Consultants - Monrovia, CA

Sample Delivery Group: L1120715

Samples Received: 07/20/2019

Project Number:

Description:

Report To: Michael Van Fleet
717 S. Myrtle Avenue
Monrovia, CA 91016

Entire Report Reviewed By:



Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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Gl: Glossary of Terms	16	⁸ Gl
Al: Accreditations & Locations	17	⁹ Al
Sc: Sample Chain of Custody	18	¹⁰ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



				Collected by	Collected date/time	Received date/time
					07/18/19 11:20	07/20/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1315376	1	07/23/19 01:11	07/23/19 01:11	CAW	Mt. Juliet, TN
				Collected by	Collected date/time	Received date/time
					07/18/19 11:10	07/20/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1315376	1	07/23/19 01:52	07/23/19 01:52	CAW	Mt. Juliet, TN
				Collected by	Collected date/time	Received date/time
					07/18/19 11:25	07/20/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1315376	1	07/23/19 02:31	07/23/19 02:31	CAW	Mt. Juliet, TN
				Collected by	Collected date/time	Received date/time
					07/18/19 11:30	07/20/19 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1315381	1	07/22/19 18:58	07/22/19 18:58	MBF	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn⁵ Ds⁶ Sr⁷ Qc⁸ Gl⁹ Al¹⁰ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Ds
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc



Volatile Organic Compounds (MS) by Method TO-15

Client ID	Lab Sample ID	Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
					ppbv	ug/m3	ppbv	ug/m3			
IA-1	L1120715-01	Chloromethane	74-87-3	50.50	0.200	0.413	0.744	1.54		1	WG1315376
IA-1	L1120715-01	Ethanol	64-17-5	46.10	0.630	1.19	328	618	E	1	WG1315376
IA-1	L1120715-01	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.273	1.53		1	WG1315376
IA-1	L1120715-01	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.579	2.86		1	WG1315376
IA-1	L1120715-01	Toluene	108-88-3	92.10	0.200	0.753	0.346	1.30		1	WG1315376
IA-2	L1120715-02	Chloromethane	74-87-3	50.50	0.200	0.413	0.764	1.58		1	WG1315376
IA-2	L1120715-02	Ethanol	64-17-5	46.10	0.630	1.19	166	313	E	1	WG1315376
IA-2	L1120715-02	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.274	1.54		1	WG1315376
IA-2	L1120715-02	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.479	2.37		1	WG1315376
IA-2	L1120715-02	Methylene Chloride	75-09-2	84.90	0.200	0.694	0.339	1.18	B	1	WG1315376
IA-2	L1120715-02	Toluene	108-88-3	92.10	0.200	0.753	0.462	1.74		1	WG1315376
IA-4	L1120715-03	Chloromethane	74-87-3	50.50	0.200	0.413	0.756	1.56		1	WG1315376
IA-4	L1120715-03	Ethanol	64-17-5	46.10	0.630	1.19	327	617	E	1	WG1315376
IA-4	L1120715-03	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.251	1.41		1	WG1315376
IA-4	L1120715-03	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.554	2.74		1	WG1315376
IA-4	L1120715-03	Toluene	108-88-3	92.10	0.200	0.753	0.374	1.41		1	WG1315376
OA-2	L1120715-04	Chloromethane	74-87-3	50.50	0.200	0.413	0.501	1.03		1	WG1315381
OA-2	L1120715-04	Ethanol	64-17-5	46.10	0.630	1.19	9.09	17.1		1	WG1315381
OA-2	L1120715-04	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.269	1.51		1	WG1315381
OA-2	L1120715-04	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.355	1.76		1	WG1315381
OA-2	L1120715-04	TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	207	73.5	304		1	WG1315381





Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1315376
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1315376
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1315376
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1315376
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1315376
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1315376
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1315376
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1315376
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1315376
Chloromethane	74-87-3	50.50	0.200	0.413	0.744	1.54		1	WG1315376
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1315376
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1315376
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1315376
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1315376
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1315376
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1315376
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1315376
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1315376
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1315376
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1315376
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1315376
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1315376
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1315376
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1315376
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1315376
Ethanol	64-17-5	46.10	0.630	1.19	328	618	E	1	WG1315376
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1315376
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.273	1.53		1	WG1315376
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.579	2.86		1	WG1315376
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1315376
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1315376
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1315376
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG1315376
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1315376
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1315376
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1315376
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1315376
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1315376
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1315376
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1315376
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1315376
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1315376
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1315376
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1315376
Toluene	108-88-3	92.10	0.200	0.753	0.346	1.30		1	WG1315376
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1315376
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1315376
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1315376
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1315376
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1315376
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1315376
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1315376
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1315376
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1315376
TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	207	ND	ND		1	WG1315376
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		103				WG1315376

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1315376
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1315376
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1315376
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1315376
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1315376
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1315376
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1315376
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1315376
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1315376
Chloromethane	74-87-3	50.50	0.200	0.413	0.764	1.58		1	WG1315376
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1315376
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1315376
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1315376
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1315376
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1315376
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1315376
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1315376
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1315376
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1315376
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1315376
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1315376
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1315376
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1315376
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1315376
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1315376
Ethanol	64-17-5	46.10	0.630	1.19	166	313	E	1	WG1315376
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1315376
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.274	1.54		1	WG1315376
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.479	2.37		1	WG1315376
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1315376
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1315376
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1315376
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG1315376
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1315376
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.339	1.18	B	1	WG1315376
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1315376
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1315376
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1315376
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1315376
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1315376
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1315376
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1315376
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1315376
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1315376
Toluene	108-88-3	92.10	0.200	0.753	0.462	1.74		1	WG1315376
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1315376
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1315376
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1315376
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1315376
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1315376
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1315376
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1315376
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1315376
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1315376
TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	207	ND	ND		1	WG1315376
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG1315376

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1315376
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1315376
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1315376
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1315376
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1315376
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1315376
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1315376
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1315376
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1315376
Chloromethane	74-87-3	50.50	0.200	0.413	0.756	1.56		1	WG1315376
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1315376
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1315376
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1315376
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1315376
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1315376
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1315376
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1315376
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1315376
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1315376
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1315376
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1315376
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1315376
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1315376
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1315376
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1315376
Ethanol	64-17-5	46.10	0.630	1.19	327	617	E	1	WG1315376
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1315376
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.251	1.41		1	WG1315376
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.554	2.74		1	WG1315376
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1315376
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1315376
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1315376
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG1315376
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1315376
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1315376
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1315376
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1315376
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1315376
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1315376
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1315376
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1315376
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1315376
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1315376
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1315376
Toluene	108-88-3	92.10	0.200	0.753	0.374	1.41		1	WG1315376
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1315376
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1315376
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1315376
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1315376
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1315376
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1315376
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1315376
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1315376
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1315376
TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	207	ND	ND		1	WG1315376
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		104				WG1315376

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1315381
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1315381
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1315381
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1315381
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1315381
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1315381
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1315381
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1315381
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1315381
Chloromethane	74-87-3	50.50	0.200	0.413	0.501	1.03		1	WG1315381
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1315381
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1315381
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1315381
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1315381
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1315381
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1315381
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1315381
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1315381
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1315381
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1315381
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1315381
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1315381
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1315381
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1315381
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1315381
Ethanol	64-17-5	46.10	0.630	1.19	9.09	17.1		1	WG1315381
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1315381
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.269	1.51		1	WG1315381
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.355	1.76		1	WG1315381
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1315381
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1315381
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1315381
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG1315381
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1315381
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1315381
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1315381
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1315381
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1315381
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1315381
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1315381
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1315381
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1315381
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1315381
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1315381
Toluene	108-88-3	92.10	0.200	0.753	ND	ND		1	WG1315381
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1315381
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1315381
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1315381
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1315381
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1315381
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1315381
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1315381
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1315381
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1315381
TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	207	73.5	304		1	WG1315381
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		86.1				WG1315381

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Method Blank (MB)

(MB) R3433222-3 07/22/19 10:02

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv	
Benzene	U		0.0460	0.200	¹ Cp
Benzyl Chloride	U		0.0598	0.200	² Tc
Bromodichloromethane	U		0.0436	0.200	³ Ss
Bromoform	U		0.0786	0.600	⁴ Cn
Bromomethane	U		0.0609	0.200	⁵ Ds
Carbon tetrachloride	U		0.0585	0.200	⁶ Sr
Chlorobenzene	U		0.0601	0.200	⁷ Qc
Chloroethane	U		0.0489	0.200	⁸ Gl
Chloroform	U		0.0574	0.200	⁹ Al
Chloromethane	U		0.0544	0.200	¹⁰ Sc
2-Chlorotoluene	U		0.0605	0.200	
Dibromochloromethane	U		0.0494	0.200	
1,2-Dibromoethane	U		0.0185	0.200	
1,2-Dichlorobenzene	U		0.0603	0.200	
1,3-Dichlorobenzene	U		0.0597	0.200	
1,4-Dichlorobenzene	U		0.0557	0.200	
1,2-Dichloroethane	U		0.0616	0.200	
1,1-Dichloroethane	U		0.0514	0.200	
1,1-Dichloroethene	U		0.0490	0.200	
cis-1,2-Dichloroethene	U		0.0389	0.200	
trans-1,2-Dichloroethene	U		0.0464	0.200	
1,2-Dichloropropane	U		0.0599	0.200	
cis-1,3-Dichloropropene	U		0.0588	0.200	
trans-1,3-Dichloropropene	U		0.0435	0.200	
1,4-Dioxane	U		0.0554	0.200	
Ethylbenzene	U		0.0506	0.200	
Trichlorofluoromethane	U		0.0673	0.200	
Dichlorodifluoromethane	U		0.0601	0.200	
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200	
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200	
Hexachloro-1,3-butadiene	U		0.0656	0.630	
n-Hexane	U		0.0457	0.200	
Isopropylbenzene	U		0.0563	0.200	
Methylene Chloride	0.0660	J	0.0465	0.200	
Methyl Butyl Ketone	U		0.0682	1.25	
2-Butanone (MEK)	U		0.0493	1.25	
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25	
MTBE	U		0.0505	0.200	
Naphthalene	U		0.154	0.630	
Styrene	U		0.0465	0.200	



L1120715-01,02,03

Method Blank (MB)

(MB) R3433222-3 07/22/19 10:02

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
Vinyl chloride	U		0.0457	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
TPH (GC/MS) Low Fraction	12.0	J	6.91	50.0
(S) 1,4-Bromofluorobenzene	98.0			60.0-140

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433222-1 07/22/19 08:46 • (LCSD) R3433222-2 07/22/19 09:23

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.31	3.66	88.4	97.5	55.0-148			9.84	25
Dichlorodifluoromethane	3.75	4.02	4.02	107	107	64.0-139			0.00311	25
1,2-Dichlorotetrafluoroethane	3.75	3.91	4.00	104	107	70.0-130			2.10	25
Chloromethane	3.75	4.09	4.08	109	109	70.0-130			0.332	25
Vinyl chloride	3.75	3.96	4.10	106	109	70.0-130			3.50	25
Bromomethane	3.75	3.78	4.10	101	109	70.0-130			8.13	25
Chloroethane	3.75	3.88	4.21	103	112	70.0-130			8.17	25
Trichlorofluoromethane	3.75	3.71	4.14	99.0	110	70.0-130			10.9	25
1,1,2-Trichlorotrifluoroethane	3.75	3.92	3.95	105	105	70.0-130			0.592	25
1,1-Dichloroethene	3.75	3.90	3.98	104	106	70.0-130			2.09	25
1,1-Dichloroethane	3.75	4.01	4.02	107	107	70.0-130			0.0357	25
Methylene Chloride	3.75	3.77	3.82	100	102	70.0-130			1.36	25
MTBE	3.75	3.87	3.97	103	106	70.0-130			2.41	25
trans-1,2-Dichloroethene	3.75	3.96	3.96	106	106	70.0-130			0.0354	25
n-Hexane	3.75	4.07	4.17	108	111	70.0-130			2.56	25
Methyl Ethyl Ketone	3.75	3.94	4.05	105	108	70.0-130			2.79	25
cis-1,2-Dichloroethene	3.75	4.00	3.94	107	105	70.0-130			1.39	25



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433222-1 07/22/19 08:46 • (LCSD) R3433222-2 07/22/19 09:23

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroform	3.75	3.97	4.02	106	107	70.0-130			1.31	25
1,1,1-Trichloroethane	3.75	3.95	4.06	105	108	70.0-130			2.62	25
Carbon tetrachloride	3.75	3.98	3.97	106	106	70.0-130			0.291	25
Benzene	3.75	4.05	4.13	108	110	70.0-130			2.03	25
1,2-Dichloroethane	3.75	4.01	4.03	107	107	70.0-130			0.330	25
Trichloroethylene	3.75	4.00	4.12	107	110	70.0-130			2.78	25
1,2-Dichloropropane	3.75	4.14	4.24	110	113	70.0-130			2.44	25
1,4-Dioxane	3.75	4.00	4.20	107	112	70.0-140			4.78	25
Bromodichloromethane	3.75	4.00	4.06	107	108	70.0-130			1.57	25
cis-1,3-Dichloropropene	3.75	4.08	4.20	109	112	70.0-130			2.76	25
4-Methyl-2-pentanone (MIBK)	3.75	4.04	4.22	108	113	70.0-139			4.33	25
Toluene	3.75	4.16	4.29	111	115	70.0-130			3.19	25
trans-1,3-Dichloropropene	3.75	4.04	4.27	108	114	70.0-130			5.38	25
1,1,2-Trichloroethane	3.75	4.00	4.14	107	111	70.0-130			3.58	25
Tetrachloroethylene	3.75	4.08	4.19	109	112	70.0-130			2.72	25
Methyl Butyl Ketone	3.75	4.24	4.47	113	119	70.0-149			5.24	25
Dibromochloromethane	3.75	4.15	4.22	111	113	70.0-130			1.70	25
1,2-Dibromoethane	3.75	4.11	4.25	110	113	70.0-130			3.51	25
Chlorobenzene	3.75	4.14	4.29	111	114	70.0-130			3.50	25
Ethylbenzene	3.75	4.06	4.23	108	113	70.0-130			4.15	25
m&p-Xylene	7.50	8.19	8.59	109	115	70.0-130			4.81	25
o-Xylene	3.75	4.11	4.24	110	113	70.0-130			3.12	25
Styrene	3.75	4.22	4.34	112	116	70.0-130			2.83	25
Bromoform	3.75	4.18	4.30	112	115	70.0-130			2.74	25
1,1,2,2-Tetrachloroethane	3.75	4.05	4.29	108	114	70.0-130			5.75	25
1,3,5-Trimethylbenzene	3.75	4.05	4.30	108	115	70.0-130			5.93	25
1,2,4-Trimethylbenzene	3.75	4.12	4.32	110	115	70.0-130			4.70	25
1,3-Dichlorobenzene	3.75	4.17	4.38	111	117	70.0-130			4.89	25
1,4-Dichlorobenzene	3.75	4.24	4.46	113	119	70.0-130			5.04	25
Benzyl Chloride	3.75	4.30	4.58	115	122	70.0-152			6.18	25
1,2-Dichlorobenzene	3.75	4.15	4.42	111	118	70.0-130			6.26	25
1,2,4-Trichlorobenzene	3.75	4.03	4.26	107	114	70.0-160			5.71	25
Hexachloro-1,3-butadiene	3.75	4.07	4.21	108	112	70.0-151			3.43	25
Naphthalene	3.75	4.11	4.27	110	114	70.0-159			3.69	25
TPH (GC/MS) Low Fraction	203	209	216	103	107	70.0-130			3.39	25
2-Chlorotoluene	3.75	4.12	4.37	110	116	70.0-130			5.93	25
Tetrahydrofuran	3.75	3.87	3.98	103	106	70.0-137			2.66	25
Isopropylbenzene	3.75	4.04	4.27	108	114	70.0-130			5.57	25
(S) 1,4-Bromofluorobenzene			99.6	103	60.0-140					

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Method Blank (MB)

(MB) R3433178-2 07/22/19 10:35

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv	
Benzene	U		0.0460	0.200	¹ Cp
Benzyl Chloride	U		0.0598	0.200	² Tc
Bromodichloromethane	U		0.0436	0.200	³ Ss
Bromoform	U		0.0786	0.600	⁴ Cn
Bromomethane	U		0.0609	0.200	⁵ Ds
Carbon tetrachloride	U		0.0585	0.200	⁶ Sr
Chlorobenzene	U		0.0601	0.200	⁷ Qc
Chloroethane	U		0.0489	0.200	⁸ Gl
Chloroform	U		0.0574	0.200	⁹ Al
Chloromethane	U		0.0544	0.200	¹⁰ Sc
2-Chlorotoluene	U		0.0605	0.200	
Dibromochloromethane	U		0.0494	0.200	
1,2-Dibromoethane	U		0.0185	0.200	
1,2-Dichlorobenzene	U		0.0603	0.200	
1,3-Dichlorobenzene	U		0.0597	0.200	
1,4-Dichlorobenzene	U		0.0557	0.200	
1,2-Dichloroethane	U		0.0616	0.200	
1,1-Dichloroethane	U		0.0514	0.200	
1,1-Dichloroethene	U		0.0490	0.200	
cis-1,2-Dichloroethene	U		0.0389	0.200	
trans-1,2-Dichloroethene	U		0.0464	0.200	
1,2-Dichloropropane	U		0.0599	0.200	
cis-1,3-Dichloropropene	U		0.0588	0.200	
trans-1,3-Dichloropropene	U		0.0435	0.200	
1,4-Dioxane	U		0.0554	0.200	
Ethylbenzene	U		0.0506	0.200	
Trichlorofluoromethane	U		0.0673	0.200	
Dichlorodifluoromethane	U		0.0601	0.200	
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200	
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200	
Hexachloro-1,3-butadiene	U		0.0656	0.630	
n-Hexane	U		0.0457	0.200	
Isopropylbenzene	U		0.0563	0.200	
Methylene Chloride	U		0.0465	0.200	
Methyl Butyl Ketone	U		0.0682	1.25	
2-Butanone (MEK)	U		0.0493	1.25	
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25	
MTBE	U		0.0505	0.200	
Naphthalene	U		0.154	0.630	
Styrene	U		0.0465	0.200	



Method Blank (MB)

(MB) R3433178-2 07/22/19 10:35

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv										
1,1,2,2-Tetrachloroethane	U		0.0576	0.200										¹ Cp
Tetrachloroethylene	U		0.0497	0.200										² Tc
Tetrahydrofuran	U		0.0508	0.200										³ Ss
Toluene	U		0.0499	0.200										⁴ Cn
1,2,4-Trichlorobenzene	U		0.148	0.630										⁵ Ds
1,1,1-Trichloroethane	U		0.0665	0.200										⁶ Sr
1,1,2-Trichloroethane	U		0.0287	0.200										⁷ Qc
Trichloroethylene	U		0.0545	0.200										⁸ Gl
1,2,4-Trimethylbenzene	U		0.0483	0.200										⁹ Al
1,3,5-Trimethylbenzene	U		0.0631	0.200										¹⁰ Sc
Vinyl chloride	U		0.0457	0.200										
m&p-Xylene	U		0.0946	0.400										
o-Xylene	U		0.0633	0.200										
Ethanol	U		0.0832	0.630										
TPH (GC/MS) Low Fraction	U		6.91	50.0										
(S) 1,4-Bromofluorobenzene	86.9			60.0-140										

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433178-1 07/22/19 09:49 • (LCSD) R3433178-3 07/22/19 11:22

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Ethanol	3.75	3.67	3.66	97.8	97.6	55.0-148			0.149	25
Dichlorodifluoromethane	3.75	3.45	3.33	92.0	88.7	64.0-139			3.68	25
1,2-Dichlorotetrafluoroethane	3.75	3.85	3.83	103	102	70.0-130			0.472	25
Chloromethane	3.75	3.87	3.89	103	104	70.0-130			0.695	25
Vinyl chloride	3.75	4.16	4.09	111	109	70.0-130			1.76	25
Bromomethane	3.75	4.39	4.45	117	119	70.0-130			1.46	25
Chloroethane	3.75	4.25	4.32	113	115	70.0-130			1.61	25
Trichlorofluoromethane	3.75	3.78	3.83	101	102	70.0-130			1.18	25
1,1,2-Trichlorotrifluoroethane	3.75	3.82	3.81	102	102	70.0-130			0.195	25
1,1-Dichloroethene	3.75	3.75	3.71	99.9	99.0	70.0-130			0.901	25
1,1-Dichloroethane	3.75	3.76	3.74	100	99.6	70.0-130			0.635	25
Methylene Chloride	3.75	3.74	3.73	99.7	99.4	70.0-130			0.283	25
MTBE	3.75	3.69	3.67	98.3	97.8	70.0-130			0.452	25
trans-1,2-Dichloroethene	3.75	3.72	3.71	99.1	98.8	70.0-130			0.271	25
n-Hexane	3.75	3.74	3.71	99.8	98.8	70.0-130			0.956	25
Methyl Ethyl Ketone	3.75	3.80	3.77	101	101	70.0-130			0.703	25
cis-1,2-Dichloroethene	3.75	3.78	3.75	101	100	70.0-130			0.741	25



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433178-1 07/22/19 09:49 • (LCSD) R3433178-3 07/22/19 11:22

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloroform	3.75	3.81	3.80	102	101	70.0-130			0.427	25
1,1,1-Trichloroethane	3.75	3.87	3.87	103	103	70.0-130			0.0875	25
Carbon tetrachloride	3.75	3.89	3.89	104	104	70.0-130			0.0889	25
Benzene	3.75	3.78	3.77	101	100	70.0-130			0.454	25
1,2-Dichloroethane	3.75	3.92	3.89	105	104	70.0-130			0.829	25
Trichloroethylene	3.75	3.88	3.88	103	104	70.0-130			0.0548	25
1,2-Dichloropropane	3.75	3.84	3.85	102	103	70.0-130			0.310	25
1,4-Dioxane	3.75	3.84	3.84	102	102	70.0-140			0.0707	25
Bromodichloromethane	3.75	3.89	3.87	104	103	70.0-130			0.636	25
cis-1,3-Dichloropropene	3.75	3.82	3.77	102	101	70.0-130			1.40	25
4-Methyl-2-pentanone (MIBK)	3.75	4.10	4.09	109	109	70.0-139			0.327	25
Toluene	3.75	3.92	3.92	105	104	70.0-130			0.168	25
trans-1,3-Dichloropropene	3.75	3.89	3.86	104	103	70.0-130			0.872	25
1,1,2-Trichloroethane	3.75	3.92	3.95	105	105	70.0-130			0.677	25
Tetrachloroethylene	3.75	4.20	4.23	112	113	70.0-130			0.752	25
Methyl Butyl Ketone	3.75	4.36	4.31	116	115	70.0-149			1.20	25
Dibromochloromethane	3.75	4.34	4.39	116	117	70.0-130			1.01	25
1,2-Dibromoethane	3.75	4.39	4.41	117	118	70.0-130			0.617	25
Chlorobenzene	3.75	4.44	4.49	118	120	70.0-130			1.11	25
Ethylbenzene	3.75	3.90	3.88	104	104	70.0-130			0.328	25
m&p-Xylene	7.50	7.60	7.59	101	101	70.0-130			0.152	25
o-Xylene	3.75	3.84	3.81	102	102	70.0-130			0.853	25
Styrene	3.75	3.92	3.91	104	104	70.0-130			0.174	25
Bromoform	3.75	4.03	4.04	108	108	70.0-130			0.215	25
1,1,2,2-Tetrachloroethane	3.75	3.92	3.90	105	104	70.0-130			0.585	25
1,3,5-Trimethylbenzene	3.75	3.98	3.95	106	105	70.0-130			0.883	25
1,2,4-Trimethylbenzene	3.75	3.94	3.91	105	104	70.0-130			0.658	25
1,3-Dichlorobenzene	3.75	4.08	4.07	109	108	70.0-130			0.399	25
1,4-Dichlorobenzene	3.75	4.23	4.22	113	113	70.0-130			0.148	25
Benzyl Chloride	3.75	4.09	4.08	109	109	70.0-152			0.276	25
1,2-Dichlorobenzene	3.75	4.01	4.02	107	107	70.0-130			0.0918	25
1,2,4-Trichlorobenzene	3.75	4.20	3.74	112	99.7	70.0-160			11.5	25
Hexachloro-1,3-butadiene	3.75	4.04	3.52	108	93.9	70.0-151			13.8	25
Naphthalene	3.75	3.93	3.51	105	93.6	70.0-159			11.2	25
TPH (GC/MS) Low Fraction	203	200	195	99.0	96.3	70.0-130			2.74	25
2-Chlorotoluene	3.75	3.95	3.92	105	104	70.0-130			0.968	25
Tetrahydrofuran	3.75	3.94	3.93	105	105	70.0-137			0.150	25
Isopropylbenzene	3.75	3.88	3.87	103	103	70.0-130			0.0876	25
(S) 1,4-Bromofluorobenzene				91.3	90.6	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.	¹ Cp
ND	Not detected at the Reporting Limit (or MDL where applicable).	² Tc
RDL	Reported Detection Limit.	³ Ss
Rec.	Recovery.	⁴ Cn
RPD	Relative Percent Difference.	⁵ Ds
SDG	Sample Delivery Group.	⁶ Sr
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.	⁷ Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	⁸ Gl
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁹ Al
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	¹⁰ Sc
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

- * Not all certifications held by the laboratory are applicable to the results reported in the attached report.
- * Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky ^{1,6}	90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LA000356
South Carolina	84004
South Dakota	n/a
Tennessee ^{1,4}	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

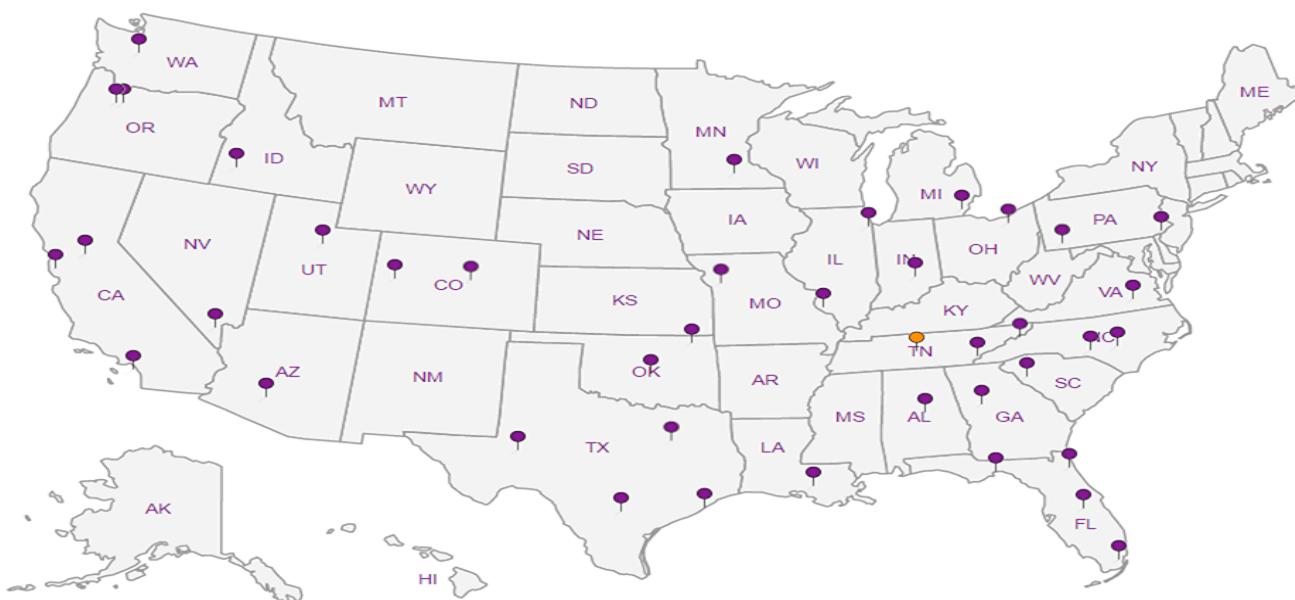
A2LA – ISO 17025	1461.01
A2LA – ISO 17025 ⁵	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



- | | |
|----|----|
| 1 | Cp |
| 2 | Tc |
| 3 | Ss |
| 4 | Cn |
| 5 | Ds |
| 6 | Sr |
| 7 | Qc |
| 8 | Gl |
| 9 | Al |
| 10 | Sc |

ANALYTICAL REPORT

July 24, 2019

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Ds
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

Converse Consultants - Monrovia, CA

Sample Delivery Group: L1120740
Samples Received: 07/20/2019
Project Number: 1942-162-00(02)
Description:

Report To: Michael Van Fleet
717 S. Myrtle Avenue
Monrovia, CA 91016

Entire Report Reviewed By:



Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

TABLE OF CONTENTS

ONE LAB. NATIONWIDE.



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	² Tc
Ss: Sample Summary	3	³ Ss
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Ds: Detection Summary	5	⁵ Ds
Sr: Sample Results	6	⁶ Sr
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Qc: Quality Control Summary	8	⁷ Qc
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Gl: Glossary of Terms	14	⁸ Gl
Al: Accreditations & Locations	15	⁹ Al
Sc: Sample Chain of Custody	16	¹⁰ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



OA-1 L1120740-01 Air

Collected by
Brian Kelly
07/18/19 11:40
Received date/time
07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1315381	1	07/22/19 23:47	07/22/19 23:47	MBF	Mt. Juliet, TN

IA-3 L1120740-02 Air

Collected by
Brian Kelly
07/18/19 11:15
Received date/time
07/20/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1315816	1	07/23/19 14:51	07/23/19 14:51	AMC	Mt. Juliet, TN

¹Cp²Tc³Ss⁴Cn⁵Ds⁶Sr⁷Qc⁸Gl⁹Al¹⁰Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Ds
- ⁶ Sr
- ⁷ Qc
- ⁸ GI
- ⁹ Al
- ¹⁰ Sc



Volatile Organic Compounds (MS) by Method TO-15

Client ID	Lab Sample ID	Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
					ppbv	ug/m3	ppbv	ug/m3			
OA-1	L1120740-01	Chloromethane	74-87-3	50.50	0.200	0.413	0.476	0.983	1	WG1315381	
OA-1	L1120740-01	Ethanol	64-17-5	46.10	0.630	1.19	5.42	10.2	1	WG1315381	
OA-1	L1120740-01	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.274	1.54	1	WG1315381	
OA-1	L1120740-01	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.339	1.68	1	WG1315381	
OA-1	L1120740-01	Methylene Chloride	75-09-2	84.90	0.200	0.694	1.93	6.71	1	WG1315381	
OA-1	L1120740-01	Toluene	108-88-3	92.10	0.200	0.753	0.407	1.53	1	WG1315381	
IA-3	L1120740-02	Chloromethane	74-87-3	50.50	0.200	0.413	0.619	1.28	1	WG1315816	
IA-3	L1120740-02	Ethanol	64-17-5	46.10	0.630	1.19	173	326	E	WG1315816	
IA-3	L1120740-02	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.251	1.41	1	WG1315816	
IA-3	L1120740-02	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.546	2.70	1	WG1315816	
IA-3	L1120740-02	Styrene	100-42-5	104	0.200	0.851	0.692	2.95	1	WG1315816	
IA-3	L1120740-02	Toluene	108-88-3	92.10	0.200	0.753	0.489	1.84	1	WG1315816	

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1315381
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1315381
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1315381
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1315381
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1315381
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1315381
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1315381
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1315381
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1315381
Chloromethane	74-87-3	50.50	0.200	0.413	0.476	0.983		1	WG1315381
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1315381
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1315381
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1315381
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1315381
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1315381
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1315381
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1315381
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1315381
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1315381
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1315381
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1315381
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1315381
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1315381
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1315381
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1315381
Ethanol	64-17-5	46.10	0.630	1.19	5.42	10.2		1	WG1315381
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1315381
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.274	1.54		1	WG1315381
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.339	1.68		1	WG1315381
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1315381
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1315381
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1315381
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG1315381
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1315381
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.93	6.71		1	WG1315381
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1315381
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1315381
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1315381
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1315381
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1315381
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1315381
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1315381
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1315381
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1315381
Toluene	108-88-3	92.10	0.200	0.753	0.407	1.53		1	WG1315381
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1315381
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1315381
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1315381
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1315381
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1315381
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1315381
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1315381
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1315381
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1315381
TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	207	ND	ND		1	WG1315381
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		88.2				WG1315381

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1315816
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1315816
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1315816
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1315816
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1315816
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1315816
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1315816
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1315816
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1315816
Chloromethane	74-87-3	50.50	0.200	0.413	0.619	1.28		1	WG1315816
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1315816
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1315816
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1315816
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1315816
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1315816
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1315816
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1315816
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1315816
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1315816
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1315816
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1315816
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1315816
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1315816
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1315816
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1315816
Ethanol	64-17-5	46.10	0.630	1.19	173	326	E	1	WG1315816
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1315816
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.251	1.41		1	WG1315816
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.546	2.70		1	WG1315816
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1315816
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1315816
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1315816
n-Hexane	110-54-3	86.20	0.200	0.705	ND	ND		1	WG1315816
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1315816
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1315816
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1315816
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1315816
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1315816
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1315816
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1315816
Styrene	100-42-5	104	0.200	0.851	0.692	2.95		1	WG1315816
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1315816
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1315816
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1315816
Toluene	108-88-3	92.10	0.200	0.753	0.489	1.84		1	WG1315816
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1315816
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1315816
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1315816
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1315816
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1315816
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1315816
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1315816
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1315816
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1315816
TPH (GC/MS) Low Fraction	8006-61-9	101	50.0	207	ND	ND		1	WG1315816
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		95.6				WG1315816

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Method Blank (MB)

(MB) R3433178-2 07/22/19 10:35

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
Styrene	U		0.0465	0.200

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Ds
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc



Method Blank (MB)

(MB) R3433178-2 07/22/19 10:35

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv										
1,1,2,2-Tetrachloroethane	U		0.0576	0.200										¹ Cp
Tetrachloroethylene	U		0.0497	0.200										² Tc
Tetrahydrofuran	U		0.0508	0.200										³ Ss
Toluene	U		0.0499	0.200										⁴ Cn
1,2,4-Trichlorobenzene	U		0.148	0.630										⁵ Ds
1,1,1-Trichloroethane	U		0.0665	0.200										⁶ Sr
1,1,2-Trichloroethane	U		0.0287	0.200										⁷ Qc
Trichloroethylene	U		0.0545	0.200										⁸ Gl
1,2,4-Trimethylbenzene	U		0.0483	0.200										⁹ Al
1,3,5-Trimethylbenzene	U		0.0631	0.200										¹⁰ Sc
Vinyl chloride	U		0.0457	0.200										
m&p-Xylene	U		0.0946	0.400										
o-Xylene	U		0.0633	0.200										
Ethanol	U		0.0832	0.630										
TPH (GC/MS) Low Fraction	U		6.91	50.0										
(S) 1,4-Bromofluorobenzene	86.9			60.0-140										

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433178-1 07/22/19 09:49 • (LCSD) R3433178-3 07/22/19 11:22

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits				
Ethanol	3.75	3.67	3.66	97.8	97.6	55.0-148			0.149	25				
Dichlorodifluoromethane	3.75	3.45	3.33	92.0	88.7	64.0-139			3.68	25				
1,2-Dichlorotetrafluoroethane	3.75	3.85	3.83	103	102	70.0-130			0.472	25				
Chloromethane	3.75	3.87	3.89	103	104	70.0-130			0.695	25				
Vinyl chloride	3.75	4.16	4.09	111	109	70.0-130			1.76	25				
Bromomethane	3.75	4.39	4.45	117	119	70.0-130			1.46	25				
Chloroethane	3.75	4.25	4.32	113	115	70.0-130			1.61	25				
Trichlorofluoromethane	3.75	3.78	3.83	101	102	70.0-130			1.18	25				
1,1,2-Trichlorotrifluoroethane	3.75	3.82	3.81	102	102	70.0-130			0.195	25				
1,1-Dichloroethene	3.75	3.75	3.71	99.9	99.0	70.0-130			0.901	25				
1,1-Dichloroethane	3.75	3.76	3.74	100	99.6	70.0-130			0.635	25				
Methylene Chloride	3.75	3.74	3.73	99.7	99.4	70.0-130			0.283	25				
MTBE	3.75	3.69	3.67	98.3	97.8	70.0-130			0.452	25				
trans-1,2-Dichloroethene	3.75	3.72	3.71	99.1	98.8	70.0-130			0.271	25				
n-Hexane	3.75	3.74	3.71	99.8	98.8	70.0-130			0.956	25				
Methyl Ethyl Ketone	3.75	3.80	3.77	101	101	70.0-130			0.703	25				
cis-1,2-Dichloroethene	3.75	3.78	3.75	101	100	70.0-130			0.741	25				



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433178-1 07/22/19 09:49 • (LCSD) R3433178-3 07/22/19 11:22

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloroform	3.75	3.81	3.80	102	101	70.0-130			0.427	25
1,1,1-Trichloroethane	3.75	3.87	3.87	103	103	70.0-130			0.0875	25
Carbon tetrachloride	3.75	3.89	3.89	104	104	70.0-130			0.0889	25
Benzene	3.75	3.78	3.77	101	100	70.0-130			0.454	25
1,2-Dichloroethane	3.75	3.92	3.89	105	104	70.0-130			0.829	25
Trichloroethylene	3.75	3.88	3.88	103	104	70.0-130			0.0548	25
1,2-Dichloropropane	3.75	3.84	3.85	102	103	70.0-130			0.310	25
1,4-Dioxane	3.75	3.84	3.84	102	102	70.0-140			0.0707	25
Bromodichloromethane	3.75	3.89	3.87	104	103	70.0-130			0.636	25
cis-1,3-Dichloropropene	3.75	3.82	3.77	102	101	70.0-130			1.40	25
4-Methyl-2-pentanone (MIBK)	3.75	4.10	4.09	109	109	70.0-139			0.327	25
Toluene	3.75	3.92	3.92	105	104	70.0-130			0.168	25
trans-1,3-Dichloropropene	3.75	3.89	3.86	104	103	70.0-130			0.872	25
1,1,2-Trichloroethane	3.75	3.92	3.95	105	105	70.0-130			0.677	25
Tetrachloroethylene	3.75	4.20	4.23	112	113	70.0-130			0.752	25
Methyl Butyl Ketone	3.75	4.36	4.31	116	115	70.0-149			1.20	25
Dibromochloromethane	3.75	4.34	4.39	116	117	70.0-130			1.01	25
1,2-Dibromoethane	3.75	4.39	4.41	117	118	70.0-130			0.617	25
Chlorobenzene	3.75	4.44	4.49	118	120	70.0-130			1.11	25
Ethylbenzene	3.75	3.90	3.88	104	104	70.0-130			0.328	25
m&p-Xylene	7.50	7.60	7.59	101	101	70.0-130			0.152	25
o-Xylene	3.75	3.84	3.81	102	102	70.0-130			0.853	25
Styrene	3.75	3.92	3.91	104	104	70.0-130			0.174	25
Bromoform	3.75	4.03	4.04	108	108	70.0-130			0.215	25
1,1,2,2-Tetrachloroethane	3.75	3.92	3.90	105	104	70.0-130			0.585	25
1,3,5-Trimethylbenzene	3.75	3.98	3.95	106	105	70.0-130			0.883	25
1,2,4-Trimethylbenzene	3.75	3.94	3.91	105	104	70.0-130			0.658	25
1,3-Dichlorobenzene	3.75	4.08	4.07	109	108	70.0-130			0.399	25
1,4-Dichlorobenzene	3.75	4.23	4.22	113	113	70.0-130			0.148	25
Benzyl Chloride	3.75	4.09	4.08	109	109	70.0-152			0.276	25
1,2-Dichlorobenzene	3.75	4.01	4.02	107	107	70.0-130			0.0918	25
1,2,4-Trichlorobenzene	3.75	4.20	3.74	112	99.7	70.0-160			11.5	25
Hexachloro-1,3-butadiene	3.75	4.04	3.52	108	93.9	70.0-151			13.8	25
Naphthalene	3.75	3.93	3.51	105	93.6	70.0-159			11.2	25
TPH (GC/MS) Low Fraction	203	200	195	99.0	96.3	70.0-130			2.74	25
2-Chlorotoluene	3.75	3.95	3.92	105	104	70.0-130			0.968	25
Tetrahydrofuran	3.75	3.94	3.93	105	105	70.0-137			0.150	25
Isopropylbenzene	3.75	3.88	3.87	103	103	70.0-130			0.0876	25
(S) 1,4-Bromofluorobenzene				91.3	90.6	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



L1120740-02

Method Blank (MB)

(MB) R3433600-3 07/23/19 09:51

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv	
Benzene	U		0.0460	0.200	¹ Cp
Benzyl Chloride	0.127	J	0.0598	0.200	² Tc
Bromodichloromethane	U		0.0436	0.200	³ Ss
Bromoform	U		0.0786	0.600	⁴ Cn
Bromomethane	U		0.0609	0.200	⁵ Ds
Carbon tetrachloride	U		0.0585	0.200	⁶ Sr
Chlorobenzene	U		0.0601	0.200	⁷ Qc
Chloroethane	U		0.0489	0.200	⁸ Gl
Chloroform	U		0.0574	0.200	⁹ Al
Chloromethane	U		0.0544	0.200	¹⁰ Sc
2-Chlorotoluene	U		0.0605	0.200	
Dibromochloromethane	U		0.0494	0.200	
1,2-Dibromoethane	U		0.0185	0.200	
1,2-Dichlorobenzene	0.0829	J	0.0603	0.200	
1,3-Dichlorobenzene	0.122	J	0.0597	0.200	
1,4-Dichlorobenzene	0.159	J	0.0557	0.200	
1,2-Dichloroethane	U		0.0616	0.200	
1,1-Dichloroethane	U		0.0514	0.200	
1,1-Dichloroethene	U		0.0490	0.200	
cis-1,2-Dichloroethene	U		0.0389	0.200	
trans-1,2-Dichloroethene	U		0.0464	0.200	
1,2-Dichloropropane	U		0.0599	0.200	
cis-1,3-Dichloropropene	U		0.0588	0.200	
trans-1,3-Dichloropropene	U		0.0435	0.200	
1,4-Dioxane	U		0.0554	0.200	
Ethylbenzene	U		0.0506	0.200	
Trichlorofluoromethane	U		0.0673	0.200	
Dichlorodifluoromethane	U		0.0601	0.200	
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200	
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200	
Hexachloro-1,3-butadiene	U		0.0656	0.630	
Isopropylbenzene	U		0.0563	0.200	
n-Hexane	U		0.0457	0.200	
Methylene Chloride	0.0661	J	0.0465	0.200	
Methyl Butyl Ketone	0.0814	J	0.0682	1.25	
2-Butanone (MEK)	U		0.0493	1.25	
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25	
MTBE	U		0.0505	0.200	
Naphthalene	U		0.154	0.630	
Styrene	U		0.0465	0.200	

ACCOUNT:

Converse Consultants - Monrovia, CA

PROJECT:

1942-162-00(02)

SDG:

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DATE/TIME:

07/24/19 15:26

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L1120740-02

Method Blank (MB)

(MB) R3433600-3 07/23/19 09:51

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv									
1,1,2,2-Tetrachloroethane	U		0.0576	0.200									¹ Cp
Tetrachloroethylene	U		0.0497	0.200									² Tc
Tetrahydrofuran	U		0.0508	0.200									³ Ss
1,2,4-Trichlorobenzene	0.217	J	0.148	0.630									⁴ Cn
Toluene	U		0.0499	0.200									⁵ Ds
1,1,1-Trichloroethane	U		0.0665	0.200									⁶ Sr
1,1,2-Trichloroethane	U		0.0287	0.200									⁷ Qc
Trichloroethylene	U		0.0545	0.200									⁸ Gl
1,2,4-Trimethylbenzene	U		0.0483	0.200									⁹ Al
1,3,5-Trimethylbenzene	U		0.0631	0.200									¹⁰ Sc
Vinyl chloride	U		0.0457	0.200									
m&p-Xylene	U		0.0946	0.400									
o-Xylene	U		0.0633	0.200									
Ethanol	0.343	J	0.0832	0.630									
TPH (GC/MS) Low Fraction	24.9	J	6.91	50.0									
(S) 1,4-Bromofluorobenzene	95.6			60.0-140									

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433600-1 07/23/19 08:22 • (LCSD) R3433600-2 07/23/19 09:05

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	4.08	4.06	109	108	55.0-148			0.540	25
Dichlorodifluoromethane	3.75	4.33	4.41	116	118	64.0-139			1.82	25
1,2-Dichlorotetrafluoroethane	3.75	4.35	4.44	116	118	70.0-130			2.20	25
Chloromethane	3.75	4.39	4.50	117	120	70.0-130			2.55	25
Vinyl chloride	3.75	4.36	4.41	116	118	70.0-130			1.11	25
Bromomethane	3.75	4.34	4.49	116	120	70.0-130			3.46	25
Chloroethane	3.75	4.28	4.44	114	118	70.0-130			3.54	25
Trichlorofluoromethane	3.75	4.37	4.40	117	117	70.0-130			0.661	25
1,1,2-Trichlorotrifluoroethane	3.75	4.35	4.48	116	119	70.0-130			3.03	25
1,1-Dichloroethene	3.75	4.28	4.37	114	117	70.0-130			2.10	25
MTBE	3.75	4.27	4.36	114	116	70.0-130			2.10	25
1,1-Dichloroethane	3.75	4.31	4.41	115	118	70.0-130			2.32	25
n-Hexane	3.75	4.36	4.43	116	118	70.0-130			1.65	25
Methylene Chloride	3.75	4.05	4.23	108	113	70.0-130			4.27	25
trans-1,2-Dichloroethene	3.75	4.31	4.42	115	118	70.0-130			2.57	25
Methyl Ethyl Ketone	3.75	4.45	4.46	119	119	70.0-130			0.0443	25
Benzene	3.75	4.35	4.47	116	119	70.0-130			2.67	25



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3433600-1 07/23/19 08:22 • (LCSD) R3433600-2 07/23/19 09:05

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
cis-1,2-Dichloroethene	3.75	4.34	4.42	116	118	70.0-130			1.80	25
Chloroform	3.75	4.36	4.41	116	118	70.0-130			1.16	25
1,1,1-Trichloroethane	3.75	4.38	4.48	117	119	70.0-130			2.13	25
Carbon tetrachloride	3.75	4.30	4.42	115	118	70.0-130			2.61	25
1,2-Dichloroethane	3.75	4.35	4.42	116	118	70.0-130			1.54	25
Toluene	3.75	4.29	4.37	114	117	70.0-130			2.05	25
Trichloroethylene	3.75	4.61	4.62	123	123	70.0-130			0.290	25
1,2-Dichloropropane	3.75	4.44	4.48	118	120	70.0-130			1.03	25
1,4-Dioxane	3.75	4.31	4.40	115	117	70.0-140			2.02	25
Bromodichloromethane	3.75	4.41	4.46	118	119	70.0-130			1.10	25
cis-1,3-Dichloropropene	3.75	4.37	4.41	116	118	70.0-130			0.977	25
4-Methyl-2-pentanone (MIBK)	3.75	4.47	4.43	119	118	70.0-139			0.733	25
trans-1,3-Dichloropropene	3.75	4.32	4.36	115	116	70.0-130			0.870	25
1,1,2-Trichloroethane	3.75	4.49	4.50	120	120	70.0-130			0.156	25
Ethylbenzene	3.75	4.39	4.43	117	118	70.0-130			0.855	25
m&p-Xylene	7.50	8.86	8.86	118	118	70.0-130			0.104	25
Tetrachloroethylene	3.75	4.27	4.34	114	116	70.0-130			1.54	25
Methyl Butyl Ketone	3.75	4.49	4.52	120	120	70.0-149			0.608	25
o-Xylene	3.75	4.36	4.38	116	117	70.0-130			0.360	25
Dibromochloromethane	3.75	4.41	4.44	118	118	70.0-130			0.604	25
1,2-Dibromoethane	3.75	4.45	4.50	119	120	70.0-130			1.19	25
Chlorobenzene	3.75	4.42	4.48	118	119	70.0-130			1.23	25
Styrene	3.75	4.50	4.49	120	120	70.0-130			0.0843	25
Bromoform	3.75	4.47	4.50	119	120	70.0-130			0.660	25
1,1,2,2-Tetrachloroethane	3.75	4.18	4.17	111	111	70.0-130			0.248	25
1,3,5-Trimethylbenzene	3.75	4.34	4.40	116	117	70.0-130			1.28	25
1,2,4-Trimethylbenzene	3.75	4.35	4.37	116	117	70.0-130			0.465	25
1,3-Dichlorobenzene	3.75	4.46	4.48	119	119	70.0-130			0.360	25
TPH (GC/MS) Low Fraction	203	235	232	116	115	70.0-130			1.33	25
1,4-Dichlorobenzene	3.75	4.54	4.63	121	124	70.0-130			1.97	25
Benzyl Chloride	3.75	4.63	4.66	124	124	70.0-152			0.546	25
1,2-Dichlorobenzene	3.75	4.39	4.40	117	117	70.0-130			0.222	25
1,2,4-Trichlorobenzene	3.75	5.05	5.10	135	136	70.0-160			0.980	25
Hexachloro-1,3-butadiene	3.75	4.61	4.57	123	122	70.0-151			0.782	25
Naphthalene	3.75	4.95	4.96	132	132	70.0-159			0.238	25
2-Chlorotoluene	3.75	4.35	4.38	116	117	70.0-130			0.802	25
Tetrahydrofuran	3.75	4.34	4.35	116	116	70.0-137			0.273	25
Isopropylbenzene	3.75	4.39	4.37	117	117	70.0-130			0.554	25
(S) 1,4-Bromofluorobenzene			100	98.3	60.0-140					

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.	¹ Cp
ND	Not detected at the Reporting Limit (or MDL where applicable).	² Tc
RDL	Reported Detection Limit.	³ Ss
Rec.	Recovery.	⁴ Cn
RPD	Relative Percent Difference.	⁵ Ds
SDG	Sample Delivery Group.	⁶ Sr
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.	⁷ Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	⁸ Gl
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	⁹ Al
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	¹⁰ Sc
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

- * Not all certifications held by the laboratory are applicable to the results reported in the attached report.
- * Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky ^{1,6}	90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LA000356
South Carolina	84004
South Dakota	n/a
Tennessee ^{1,4}	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

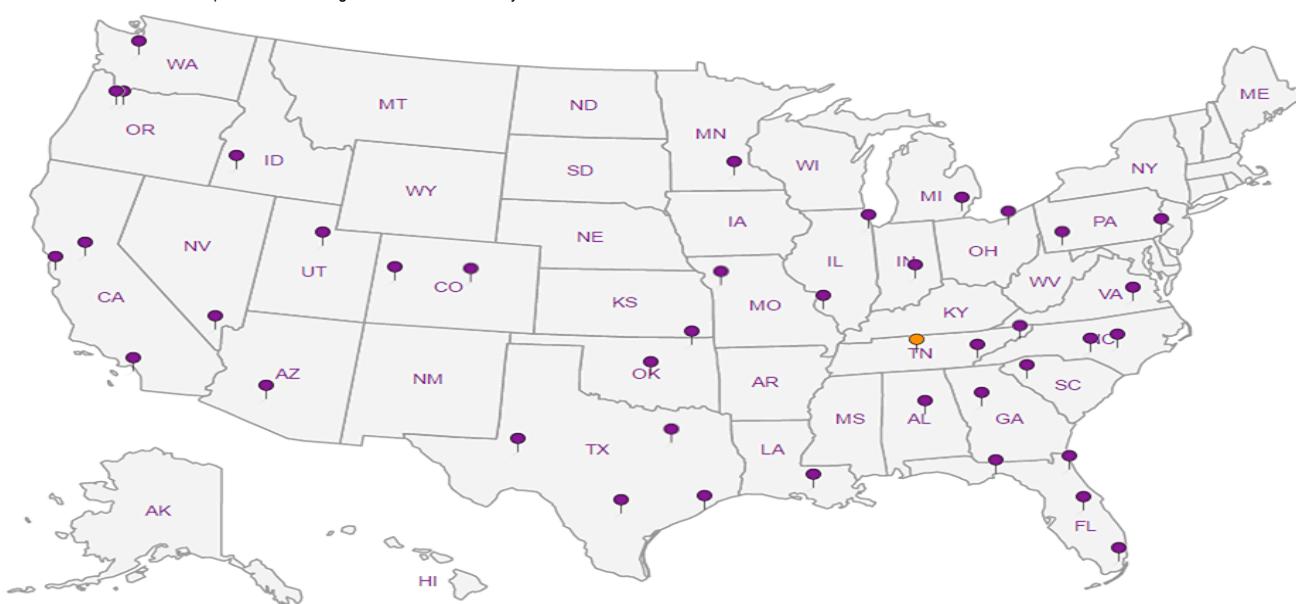
A2LA – ISO 17025	1461.01
A2LA – ISO 17025 ⁵	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



- | | |
|----|----|
| 1 | Cp |
| 2 | Tc |
| 3 | Ss |
| 4 | Cn |
| 5 | Ds |
| 6 | Sr |
| 7 | Qc |
| 8 | Gl |
| 9 | Al |
| 10 | Sc |



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FDA#	2030513
LA City#	10261
ELAP#'s	2789
	2790
	2122

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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)

Ken Zheng, President

Signature / Date

Ken Zheng, President
07/24/2019 14:34:40

Laboratory Job No. (Certificate of Analysis No.)

1907-00157

Project Name / No.

23591 El Toro Rd., Lake Forest, CA 92630

Dates Sampled (from/to)

07/19/19 To 07/19/19

Dates Received (from/to)

07/19/19 To 07/19/19

Dates Reported (from/to)

07/24/19 To 7/24/2019

Chains of Custody Received

Yes

Comments:

Subcontracting

Organic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

Sample	Analyte	Result	Qual	Units	RL	Sample	Analyte	Result	Qual	Units	RL
SV7-5'	Benzene	0.15		µg/L	0.025	SV7-5'	Ethylbenzene	0.060		µg/L	0.050
SV7-5'	Toluene	0.070		µg/L	0.050	SV7-5'	m,p-Xylenes	0.10		µg/L	0.10
SV6-5'	Benzene	0.16		µg/L	0.025	SV6-5'	Ethylbenzene	0.060		µg/L	0.050
SV6-5'	Toluene	0.080		µg/L	0.050	SV6-5'	m,p-Xylenes	0.12		µg/L	0.10



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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 SV1-15'								Date & Time Sampled:	07/19/19	@ 10:30
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	10:40	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	10:40	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	10:40	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	10:40	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	10:40	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	10:40	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	10:40	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	10:40	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL

The data and information on this, and other accompanying documents, represent only the sample(s) analyzed and is rendered upon condition that it is not to be reproduced, wholly or in part, for advertising or other purposes without approval from the laboratory.

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
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6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech						
Sample: 001 SV1-15'								Date & Time Sampled:								07/19/19 @ 10:30
Sample Matrix: Soil Vapor																
Purge Volume Sampled: 3																
.....continued																
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	10:40	AL						
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	10:40	AL						
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	10:40	AL						
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	10:40	AL						
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL						

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 001 SV1-15'									Date & Time Sampled:	07/19/19 @ 10:30
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	10:40	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	10:40	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	10:40	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	10:40	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	10:40	AL
[VOC Surrogates]										
Dibromofluoromethane	96		%REC	EPA 8260B			70-130	07/19/19	10:40	AL
Toluene-D8	105		%REC	EPA 8260B			70-130	07/19/19	10:40	AL
Bromofluorobenzene	98		%REC	EPA 8260B			70-130	07/19/19	10:40	AL
Sample: 002 SV1-5'									Date & Time Sampled:	07/19/19 @ 10:50
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:03	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	11:03	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:03	AL

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 SV1-5'								Date & Time Sampled:	07/19/19	@ 10:50
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:03	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:03	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	11:03	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:03	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:03	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 SV1-5'								Date & Time Sampled:	07/19/19	@ 10:50
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:03	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	11:03	AL
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:03	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	11:03	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:03	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	11:03	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	11:03	AL

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Date Reported 07/24/19
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Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 002 SV1-5'	Date & Time Sampled: 07/19/19 @ 10:50									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:03	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:03	AL
[VOC Surrogates]										
Dibromofluoromethane	98		%REC	EPA 8260B			70-130	07/19/19	11:03	AL
Toluene-D8	104		%REC	EPA 8260B			70-130	07/19/19	11:03	AL
Bromofluorobenzene	100		%REC	EPA 8260B			70-130	07/19/19	11:03	AL
Sample: 003 SV3-15'	Date & Time Sampled: 07/19/19 @ 11:09									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:25	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	11:25	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:25	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:25	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:25	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	11:25	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL

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FDA#	2030513
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ELAP#'s	2789
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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 003 SV3-15'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:25	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:25	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:25	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	11:25	AL

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1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 003 SV3-15'								Date & Time Sampled:	07/19/19	@ 11:09
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:25	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	11:25	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:25	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	11:25	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	11:25	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:25	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:25	AL
[VOC Surrogates]										
Dibromofluoromethane	100		%REC	EPA 8260B				70-130	07/19/19	11:25
Toluene-D8	105		%REC	EPA 8260B				70-130	07/19/19	11:25
Bromofluorobenzene	101		%REC	EPA 8260B				70-130	07/19/19	11:25



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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 004 SV3-5'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:48	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	11:48	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:48	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:48	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:48	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	11:48	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:48	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:48	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL

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Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech						
Sample: 004 SV3-5'								Date & Time Sampled:								07/19/19 @ 11:31
Sample Matrix: Soil Vapor																
Purge Volume Sampled: 3																
.....continued																
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:48	AL						
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	11:48	AL						
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:48	AL						
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	11:48	AL						
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL						

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FDA#	2030513
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ELAP#'s	2789
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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 004 SV3-5'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	11:48	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	11:48	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	11:48	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	11:48	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	11:48	AL
[VOC Surrogates]										
Dibromofluoromethane	106		%REC	EPA 8260B			70-130	07/19/19	11:48	AL
Toluene-D8	105		%REC	EPA 8260B			70-130	07/19/19	11:48	AL
Bromofluorobenzene	101		%REC	EPA 8260B			70-130	07/19/19	11:48	AL
Sample: 005 SV2-15'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:11	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	12:11	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:11	AL

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 005 SV2-15'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:11	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:11	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	12:11	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:11	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:11	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL

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1907-00157

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LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 005 SV2-15'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:11	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	12:11	AL
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:11	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	12:11	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:11	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	12:11	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	12:11	AL

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Date Reported 07/24/19
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Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 005 SV2-15'	Date & Time Sampled: 07/19/19 @ 11:54									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:11	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:11	AL
[VOC Surrogates]										
Dibromofluoromethane	102		%REC	EPA 8260B			70-130	07/19/19	12:11	AL
Toluene-D8	105		%REC	EPA 8260B			70-130	07/19/19	12:11	AL
Bromofluorobenzene	99		%REC	EPA 8260B			70-130	07/19/19	12:11	AL
Sample: 006 SV2-5'	Date & Time Sampled: 07/19/19 @ 12:17									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:34	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	12:34	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:34	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:34	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:34	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	12:34	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL

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Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 006 SV2-5'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:34	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:34	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:34	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	12:34	AL

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 006 SV2-5'								Date & Time Sampled:	07/19/19	@ 12:17
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:34	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	12:34	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:34	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	12:34	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	12:34	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:34	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:34	AL
[VOC Surrogates]										
Dibromofluoromethane	104		%REC	EPA 8260B				70-130	07/19/19	12:34
Toluene-D8	105		%REC	EPA 8260B				70-130	07/19/19	12:34
Bromofluorobenzene	99		%REC	EPA 8260B				70-130	07/19/19	12:34



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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 007 SV2-5' DUP								Date & Time Sampled:	07/19/19	@ 12:40
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:57	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	12:57	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:57	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:57	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:57	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	12:57	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:57	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:57	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 007 SV2-5' DUP								Date & Time Sampled:	07/19/19	@ 12:40
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:57	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	12:57	AL
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:57	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	12:57	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL

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Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 007 SV2-5' DUP									Date & Time Sampled:	07/19/19 @ 12:40
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	12:57	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	12:57	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	12:57	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	12:57	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	12:57	AL
[VOC Surrogates]										
Dibromofluoromethane	104		%REC	EPA 8260B			70-130	07/19/19	12:57	AL
Toluene-D8	107		%REC	EPA 8260B			70-130	07/19/19	12:57	AL
Bromofluorobenzene	99		%REC	EPA 8260B			70-130	07/19/19	12:57	AL
Sample: 008 SV4-15'									Date & Time Sampled:	07/19/19 @ 13:03
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:21	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	1:21	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:21	AL

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LA City#	10261
ELAP#'s	2789
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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 008 SV4-15'									Date & Time Sampled:	07/19/19 @ 13:03
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:21	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:21	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	1:21	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	1:21	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	1:21	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL

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Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 008 SV4-15'								Date & Time Sampled:	07/19/19	@ 13:03
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:21	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	1:21	AL
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:21	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	1:21	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	1:21	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	1:21	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	1:21	AL

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LOS ANGELES, CA 90040

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Invoice No. 86321
Cust # 1567
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Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 008 SV4-15'	Date & Time Sampled: 07/19/19 @ 13:03									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:21	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:21	AL
[VOC Surrogates]										
Dibromofluoromethane	99		%REC	EPA 8260B			70-130	07/19/19	1:21	AL
Toluene-D8	106		%REC	EPA 8260B			70-130	07/19/19	1:21	AL
Bromofluorobenzene	99		%REC	EPA 8260B			70-130	07/19/19	1:21	AL
Sample: 009 SV4-5'	Date & Time Sampled: 07/19/19 @ 13:27									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:44	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	1:44	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:44	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:44	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:44	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	1:44	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL

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Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 009 SV4-5'								Date & Time Sampled:	07/19/19	@ 13:27
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	1:44	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	1:44	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:44	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	1:44	AL

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Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 009 SV4-5'								Date & Time Sampled:	07/19/19	@ 13:27
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:44	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	1:44	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	1:44	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	1:44	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	1:44	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	1:44	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	1:44	AL
[VOC Surrogates]										
Dibromofluoromethane	105		%REC	EPA 8260B				70-130	07/19/19	1:44
Toluene-D8	109		%REC	EPA 8260B				70-130	07/19/19	1:44
Bromofluorobenzene	100		%REC	EPA 8260B				70-130	07/19/19	1:44



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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 010 SV7-5'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:08	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Benzene	0.15		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	2:08	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:08	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:08	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:08	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	2:08	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:08	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:08	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 010 SV7-5'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Ethylbenzene	0.060		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:08	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	2:08	AL
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:08	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	2:08	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Toluene	0.070		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL

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1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 010 SV7-5'	Date & Time Sampled: 07/19/19 @ 13:52									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:08	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	2:08	AL
m,p-Xylenes	0.10		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	2:08	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:08	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:08	AL
[VOC Surrogates]										
Dibromofluoromethane	112		%REC	EPA 8260B			70-130	07/19/19	2:08	AL
Toluene-D8	107		%REC	EPA 8260B			70-130	07/19/19	2:08	AL
Bromofluorobenzene	99		%REC	EPA 8260B			70-130	07/19/19	2:08	AL
Sample: 011 SV6-5'	Date & Time Sampled: 07/19/19 @ 14:14									
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:31	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Benzene	0.16		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	2:31	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:31	AL

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LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 011 SV6-5'									Date & Time Sampled:	07/19/19 @ 14:14
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:31	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:31	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	2:31	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:31	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:31	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 011 SV6-5'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Ethylbenzene	0.060		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:31	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	2:31	AL
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:31	AL
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	2:31	AL
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Toluene	0.080		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:31	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	2:31	AL
m,p-Xylenes	0.12		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	2:31	AL

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LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech				
Sample: 011 SV6-5'					Date & Time Sampled: 07/19/19 @ 14:14									
Sample Matrix: Soil Vapor														
Purge Volume Sampled: 3														
.....continued														
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:31	AL				
[VOC Vapor Sampling Tracer]														
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:31	AL				
[VOC Surrogates]														
Dibromofluoromethane	102		%REC	EPA 8260B			70-130	07/19/19	2:31	AL				
Toluene-D8	105		%REC	EPA 8260B			70-130	07/19/19	2:31	AL				
Bromofluorobenzene	100		%REC	EPA 8260B			70-130	07/19/19	2:31	AL				
Sample: 012 SV5-15'					Date & Time Sampled: 07/19/19 @ 14:38									
Sample Matrix: Soil Vapor														
Purge Volume Sampled: 3														
[VOCs by GCMS]														
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:54	AL				
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	2:54	AL				
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:54	AL				
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:54	AL				
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:54	AL				
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	2:54	AL				
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL				

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CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 012 SV5-15'								Date & Time Sampled:	07/19/19	@ 14:38
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:54	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:54	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:54	AL
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	2:54	AL

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Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech						
Sample: 012 SV5-15'								Date & Time Sampled: 07/19/19 @ 14:38								
Sample Matrix: Soil Vapor																
Purge Volume Sampled: 3																
.....continued																
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:54	AL						
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	2:54	AL						
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	2:54	AL						
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	2:54	AL						
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	2:54	AL						
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	2:54	AL						
[VOC Vapor Sampling Tracer]																
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	2:54	AL						
[VOC Surrogates]																
Dibromofluoromethane	108		%REC	EPA 8260B				70-130	07/19/19	2:54						
Toluene-D8	106		%REC	EPA 8260B				70-130	07/19/19	2:54						
Bromofluorobenzene	101		%REC	EPA 8260B				70-130	07/19/19	2:54						



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FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CERTIFICATE OF ANALYSIS

1907-00157

INTERPHASE
ROSE WILLIAMS
6200 PEACHTREE STREET
LOS ANGELES, CA 90040

Date Reported 07/24/19
Date Received 07/19/19
Invoice No. 86321
Cust # 1567
Permit Number
Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 013 SV5-5'								Date & Time Sampled:	07/19/19	@ 15:01
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
[VOCs by GCMS]										
Acetone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	3:16	AL
t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Benzene	<0.0180		µg/L	EPA 8260B	0.5	0.0180	0.025	07/19/19	3:16	AL
Bromobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Bromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Bromodichloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Bromoform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Bromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
t-Butanol (TBA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	3:16	AL
2-Butanone (MEK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	3:16	AL
n-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
sec-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
tert-Butylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Carbon Disulfide	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	3:16	AL
Carbon Tetrachloride	<0.0125		µg/L	EPA 8260B	0.5	0.0125	0.025	07/19/19	3:16	AL
Chlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Chloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Chloroform	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Chloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
2-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
4-Chlorotoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Dibromochloromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,2-Dibromoethane (EDB)	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	3:16	AL
1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	3:16	AL
Dibromomethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,2-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,3-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,4-Dichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Dichlorodifluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,1-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL

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LA City#	10261
ELAP#'s	2789
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Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech						
Sample: 013 SV5-5'								Date & Time Sampled:								07/19/19 @ 15:01
Sample Matrix: Soil Vapor																
Purge Volume Sampled: 3																
.....continued																
1,2-Dichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,1-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
cis-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
trans-1,2-Dichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,3-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
2,2-Dichloropropane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,1-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
cis-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
trans-1,3-Dichloropropene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Diisopropyl Ether (DiPE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Ethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Hexachlorobutadiene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
2-Hexanone	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	3:16	AL						
Isopropylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
4-Isopropyltoluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Methylene Chloride	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.05	07/19/19	3:16	AL						
4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	3:16	AL						
Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Naphthalene	<0.0160		µg/L	EPA 8260B	0.5	0.0160	0.025	07/19/19	3:16	AL						
n-Propylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Styrene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,1,1,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,1,2,2-Tetrachloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Tetrachloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
Toluene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,2,3-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,2,4-Trichlorobenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						
1,1,1-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL						

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Customer P.O.

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Analysis	Result	Qual	Units	Method	DF	MDL	RL	Date	Time	Tech
Sample: 013 SV5-5'										
Sample Matrix: Soil Vapor										
Purge Volume Sampled: 3										
.....continued										
1,1,2-Trichloroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Trichloroethene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,2,3-Trichloropropane	<0.0100		µg/L	EPA 8260B	0.5	0.0100	0.050	07/19/19	3:16	AL
Trichlorofluoromethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Trichlorotrifluoroethane	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,2,4-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
1,3,5-Trimethylbenzene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
Vinyl Chloride	<0.0040		µg/L	EPA 8260B	0.5	0.0040	0.025	07/19/19	3:16	AL
m,p-Xylenes	<0.0500		µg/L	EPA 8260B	0.5	0.0500	0.10	07/19/19	3:16	AL
o-Xylene	<0.0250		µg/L	EPA 8260B	0.5	0.0250	0.050	07/19/19	3:16	AL
[VOC Vapor Sampling Tracer]										
Isopropanol (IPA)	<0.2500		µg/L	EPA 8260B	0.5	0.2500	0.50	07/19/19	3:16	AL
[VOC Surrogates]										
Dibromofluoromethane	107		%REC	EPA 8260B				70-130	07/19/19	3:16
Toluene-D8	106		%REC	EPA 8260B				70-130	07/19/19	3:16
Bromofluorobenzene	99		%REC	EPA 8260B				70-130	07/19/19	3:16

Respectfully Submitted: Ken Zheng
Ken Zheng - President

QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician



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As regulatory limits change frequently, A & R Laboratories advises the recipient of this report to confirm such limits with the appropriate federal, state, or local authorities before acting in reliance on the regulatory limits provided.

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.



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QUALITY CONTROL DATA REPORT

INTERPHASE

LOS ANGELES, CA 90040

1907-00157

Date Reported	07/24/2019
Date Received	07/19/2019
Date Sampled	07/19/2019
Invoice No.	86321
Customer #	1567
Customer P.O.	

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Method # EPA 8260B																							
QC Reference #		Date Analyzed: 7/19/2019										Technician: AL											
Samples																							
Results																							
	LCS %REC	BLKSRR%REC																					
1,1-Dichloroethene	85																						
Benzene	101																						
Bromofluorobenzene		100																					
Chlorobenzene	103																						
Dibromofluoromethan		104																					
Toluene	111																						
Toluene-D8		105																					
Trichloroethene	108																						

Control Ranges	
LCS %REC	BLKSRR%REC
70 - 130	
70 - 130	50 - 150
70 - 130	50 - 150
70 - 130	50 - 150
70 - 130	50 - 150



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INTERPHASE

1907-00157

Date Reported 07/24/2019
Date Received 07/19/2019
Date Sampled 07/19/2019

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Method blank results

Ref	Test Name	Result	Qualif	Units	MDL	Ref	Test Name	Result	Qualif	Units	MDL
83308	Acetone	<0.2500		µg/L	0.2500		Isopropylbenzene	<0.0250		µg/L	0.0250
	t-Amyl Methyl Ether (TAME)	<0.0250		µg/L	0.0250		4-Isopropyltoluene	<0.0250		µg/L	0.0250
	Benzene	<0.0180		µg/L	0.0180		Methylene Chloride	<0.0250		µg/L	0.0250
	Bromobenzene	<0.0250		µg/L	0.0250		4-Methyl-2-Pentanone (MIBK)	<0.2500		µg/L	0.2500
	Bromochloromethane	<0.0250		µg/L	0.0250		Methyl-t-butyl Ether (MtBE)	<0.0250		µg/L	0.0250
	Bromodichloromethane	<0.0250		µg/L	0.0250		Naphthalene	<0.0160		µg/L	0.0160
	Bromoform	<0.0250		µg/L	0.0250		n-Propylbenzene	<0.0250		µg/L	0.0250
	Bromomethane	<0.0250		µg/L	0.0250		Styrene	<0.0250		µg/L	0.0250
	t-Butanol (TBA)	<0.2500		µg/L	0.2500		1,1,1,2-Tetrachloroethane	<0.0250		µg/L	0.0250
	2-Butanone (MEK)	<0.2500		µg/L	0.2500		1,1,2,2-Tetrachloroethane	<0.0250		µg/L	0.0250
	n-Butylbenzene	<0.0250		µg/L	0.0250		Tetrachloroethene	<0.0250		µg/L	0.0250
	sec-Butylbenzene	<0.0250		µg/L	0.0250		Toluene	<0.0250		µg/L	0.0250
	tert-Butylbenzene	<0.0250		µg/L	0.0250		1,2,3-Trichlorobenzene	<0.0250		µg/L	0.0250
	Carbon Disulfide	<0.2500		µg/L	0.2500		1,2,4-Trichlorobenzene	<0.0250		µg/L	0.0250
	Carbon Tetrachloride	<0.0125		µg/L	0.0125		1,1,1-Trichloroethane	<0.0250		µg/L	0.0250
	Chlorobenzene	<0.0250		µg/L	0.0250		1,1,2-Trichloroethane	<0.0250		µg/L	0.0250
	Chloroethane	<0.0250		µg/L	0.0250		Trichloroethene	<0.0250		µg/L	0.0250
	Chloroform	<0.0250		µg/L	0.0250		1,2,3-Trichloropropane	<0.0100		µg/L	0.0100
	Chloromethane	<0.0250		µg/L	0.0250		Trichlorofluoromethane	<0.0250		µg/L	0.0250
	2-Chlorotoluene	<0.0250		µg/L	0.0250		Trichlorotrifluoroethane	<0.0250		µg/L	0.0250
	4-Chlorotoluene	<0.0250		µg/L	0.0250		1,2,4-Trimethylbenzene	<0.0250		µg/L	0.0250
	Dibromochloromethane	<0.0250		µg/L	0.0250		1,3,5-Trimethylbenzene	<0.0250		µg/L	0.0250
	1,2-Dibromoethane (EDB)	<0.0100		µg/L	0.0100		Vinyl Chloride	<0.0040		µg/L	0.0040
	1,2-Dibromo-3-Chloropropane	<0.0100		µg/L	0.0100		m,p-Xylenes	<0.0500		µg/L	0.0500
	Dibromomethane	<0.0250		µg/L	0.0250		o-Xylene	<0.0250		µg/L	0.0250
	1,2-Dichlorobenzene	<0.0250		µg/L	0.0250		Isopropanol (IPA)	<0.2500		µg/L	0.2500
	1,3-Dichlorobenzene	<0.0250		µg/L	0.0250						
	1,4-Dichlorobenzene	<0.0250		µg/L	0.0250						
	Dichlorodifluoromethane	<0.0250		µg/L	0.0250						
	1,1-Dichloroethane	<0.0250		µg/L	0.0250						
	1,2-Dichloroethane	<0.0250		µg/L	0.0250						
	1,1-Dichloroethene	<0.0250		µg/L	0.0250						
	cis-1,2-Dichloroethene	<0.0250		µg/L	0.0250						
	trans-1,2-Dichloroethene	<0.0250		µg/L	0.0250						
	1,2-Dichloropropane	<0.0250		µg/L	0.0250						
	1,3-Dichloropropane	<0.0250		µg/L	0.0250						
	2,2-Dichloropropane	<0.0250		µg/L	0.0250						
	1,1-Dichloropropene	<0.0250		µg/L	0.0250						
	cis-1,3-Dichloropropene	<0.0250		µg/L	0.0250						
	trans-1,3-Dichloropropene	<0.0250		µg/L	0.0250						
	Diisopropyl Ether (DiPE)	<0.0250		µg/L	0.0250						
	Ethylbenzene	<0.0250		µg/L	0.0250						
	Ethyl-t-Butyl Ether (EtBE)	<0.0250		µg/L	0.0250						
	Hexachlorobutadiene	<0.0250		µg/L	0.0250						
	2-Hexanone	<0.2500		µg/L	0.2500						



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Date Received	07/19/2019
Date Sampled	07/19/2019

Project: 23591 El Toro Rd., Lake Forest, CA 92630

Respectfully Submitted:

Ken Zheng

Ken Zheng - President

For any feedback concerning our services, please contact Jenny Jiang, Project Manager at 951.779.0310. You may also contact Ken Zheng, President at office@arlaboratories.com.

ARL

A & R Laboratories

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CHAIN OF CUSTODY

A & R Work Order #:

1907-157

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Client Name <u>InterPhase</u> E-mail <u>OFFICE@INTERPHASEENVIRONMENTAL.COM</u> Address <u>6200 PEACHTREE ST., LOS ANGELES, CA 90040</u> Report Attention <u>Gilberto</u> <u>stendoza</u> Phone # <u>(323) 301-0076</u> Sampled By <u>Ashlee Lynch</u> Project No./ Name <u>Project Site</u> <u>23591 El Toro Rd Lake Forest, CA 92630</u>						<input type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Seal						Analyses Requested						Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal Mobile	
Lab # (Lab use)	Client Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	LUFT / 8015 (Gasoline)	LUFT / 8015 (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA 8015M (Carbon Chain C4-C40)	EPA 6010B/7000 (CAM 17 Metals)	Micro: Plate Cnt, Coliform, E-Coli				
		Date	Time																
1	SV1 - 15'	7/19/14	10:30	Air	NA	250 mL Glass Bottle	X												
2	SV1 - 5'		10:50				X												
3	SV3 - 15'		11:04				X												
4	SV3 - 5'		11:31				X												
5	SV2 - 15'		11:54				X												
6	SV2 - 5'		12:17				X												
7	SV2 - 5' DUP		12:40				X												
8	SV4 - 15'		13:03				X												
9	SV4 - 5'		13:27				X												
10	SV7 - 5'		13:52				X												
11	SV6 - 5'		14:14				X												
12	SV5 - 15'		14:38				X												
13	SV5 - 5'	↓	15:01	↓	↓	↓	X												
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
<u>Sherry Converse</u>		7/19/14	15:36	<u>Amber Lynch</u>	<u>ARL</u>	7/19/14	15:35												
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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