

SUPPLIMENTAL  
SAMPLING AND ANALYSIS REPORT  
UNITS FROM SS-25 PROJECT  
ALISO CANYON NATURAL GAS STORAGE FACILITY  
12801 TAMPA AVENUE  
PORTER RANCH, CALIFORNIA

Prepared For:

**LOS ANGELES COUNTY DEPARTMENT OF  
PUBLIC HEALTH**

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A LEIGHTON GROUP COMPANY

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## 1.0 INTRODUCTION

Leighton Consulting Inc., (Leighton Consulting) presents this Supplemental Sampling and Analysis Report for units from Well SS-25 at the Southern California Gas (SoCalGas) Aliso Canyon Natural Gas Storage Facility located in Porter Ranch, California. The purpose of the supplemental investigation was to:

1. Collect samples of selected materials that would be stored long-term at the laboratory for potential observation and/or analysis at a later date by independent researchers that will be contracted to conduct the Aliso Canyon Disaster Health Research Study (Health Study),
2. Analyze the sludge samples collected for radioisotopes, including lead-210 (Pb-210) and polonium-210 (Po-210), and
3. Analyze the samples collected for typical waste characterization analytes including petroleum hydrocarbons, volatile organic compounds (VOCs), and metals.

The scope of work does not include a discussion of the results, conclusions, or recommendations at this time. The laboratory results and the stored samples are intended to be made available for use by scientists that will be evaluating public health impacts on people living in the surrounding communities as part of the Health Study.

### 1.1 Site Background

An unprecedented release of natural gas and constituents from the Aliso Canyon Gas Storage Facility occurred for several months between October 2015 and February 2016 and it is estimated that approximately 100,000 tons of methane was released to the atmosphere. The gas storage facility is the second largest storage facility of its kind in the United States and is located within a depleted oil field that was repurposed to gas storage in the 1970s. The source of the leak was from injection well "Standard Sesnon 25" (SS-25). SoCalGas performed seven unsuccessful well top-kill attempts from October 24 through December 22, 2015 by pumping mixed fluids and mud down the well. A bottom-kill/well control attempt was subsequently made by advancing a relief well to intersect SS-25 and well-kill fluids were pumped to the bottom of the leaking well. The relief well kill attempt was successful and Well SS-25 was confirmed by state officials as sealed on February 18, 2016. This event exposed residents in surrounding communities to chemicals associated with the emissions from the oil and gas storage field release at SS-25, as well as the materials associated with the seven unsuccessful well-kill events.



During remediation by SoCalGas of the Aliso Canyon Well Failure, materials were stored in units (roll-off bins or similar containers) that generally hold approximately 20 cubic yards of material, as well as one 20,000 gallon tank that holds liquids. The units were categorized, labeled, and temporarily stored onsite at the Aliso Canyon Natural Gas Storage Facility under evidentiary hold by the California Public Utilities Commission, Safety and Enforcement Division until May 26, 2020. A Sampling and Analysis Plan (SAP) was prepared by AECOM dated July 21, 2020, that included a description of the procedures for sampling and analysis of the materials in the units for their characterization prior to disposal (AECOM, 2020; Appendix A). A list of units, with a distinct unit number provided for each, and categories of the materials stored in each unit are provided in Attachment 1 of the SAP included in Appendix A. The SAP lists 150 units that are divided into 31 different categories based on the type and source of the material. The categories include primarily soil and debris from the immediate and surrounding affected area around SS-25, as well as sludge materials and well control fluids that appear to be associated with drilling muds and fluids utilized during well-kill events. The SAP stated that twenty percent of the units within each of the 31 categories would be selected at random for sampling and profiling purposes, with at least one unit per category sampled.

The Los Angeles County Department of Public Health (Public Health) was notified by SoCalGas that their environmental consultant, AECOM, had conducted sampling in accordance with the SAP and that the units were being scheduled for removal from the Site as early as August 5, 2020. Public Health requested from SoCalGas that select units be made available for observation and sampling in order to provide an independent assessment for potential chemicals of concern and retained Leighton Consulting to conduct the sampling, which occurred on August 4, 2020. The Los Angeles County Fire Department Health Hazardous Material Division granted SoCalGas a time extension to dispose of the units by November 22, 2020.

Leighton Consulting conducted sampling of select bins on August 4, 2020 and prepared a Sampling and Analysis Report dated October 2, 2020 (Leighton Consulting, 2020). The laboratory was instructed to store the material remaining after the analysis conducted for an indefinite period, until notified by Public Health/Leighton Consulting to dispose of the material according to standard laboratory practice. However, the samples collected were analyzed by an extensive list of methods, and the majority of the aqueous samples from the well control fluids (TK-130) was utilized to complete the analyses, and there was a limited amount of material remaining of the solid samples. The Community Advisory Group (CAG) associated with the Health Study, provides fee



Public Health on the Health Study efforts, and requested that additional samples be collected prior to the disposal of the bins so that they could be made available to independent researchers that will be conducting the Health Study. The local Certified Unified Program Agencies (CUPA), the Los Angeles County Fire Department (LACoFD), was consulted to assess if samples could be collected without conducting analysis at this time. The LACoFD requested that the samples be analyzed for waste characterization parameters including petroleum hydrocarbons, VOCs, and metals. The Scientific Oversight Committee (SOC), which provides guidance on the Health Study's focus and priorities, did not recommend additional analysis of samples collected, with the exception that Public Health determined to analyze select samples for Pb-210 and Po-210 isotopes.



## 2.0 SUMMARY OF SAMPLING CONDUCTED

### 2.1 Health and Safety

In accordance with standard environmental procedures, Leighton Consulting prepared a Site Specific Health and Safety Plan (HSP) describing safety aspects of the work to be performed at the site. The HSP was prepared in compliance with the Occupational Safety and Health and Administration (OSHA) regulation 29 CFR 1910.120. The site specific HSP was onsite during field activities and was signed by Leighton Consulting field personnel.

The field assessment was conducted on October 29, 2020. Each individual that participated in the sampling activities drove separately and a COVID-19 screening was conducted at the entrance gate prior to entering the facility. Each participant wore proper personal protective equipment (PPE) while on the facility, including but not limited to a hard hat, safety vest, face mask, and eye protection. Nitrile gloves were also worn during sampling activities. A tailgate meeting was led by Mr. William J. Lukins from SoCalGas prior to sampling to discuss facility safety procedures. Mr. Lukins provided access to the selected units that were stored at various locations throughout the facility and was present during the sampling activities.

### 2.2 Unit Selection

#### 2.2.1 Unit Selection for Sampling

Public Health and the SOC reviewed the list of units stored at the Aliso Facility, and the units samples during the previous assessment, prior to the field assessment and selected ten units to sample. The units selected included those that contained sludge, oil, or water from SS-25 that was considered to have the highest potential of dispersing through the air and reaching the community during the failed well-kill events, and those that had not been sampled during the previous event or those that had been sampled in the previous event but did not have material remaining.



The units sampled and a rationale for selection are summarized below:

Unit Number	Description of Contents	Sampling Rationale
TK-130	SS-25 resurfaced well control fluids	Liquid holding tank and petroleum odor noted. Sampled during previous event; however, most of the material had been utilized by the laboratory methods conducted.
V23602	25A/25B Cellar/Pipe Trench Sludge	Sludge material not previously sampled.
DB30001VB	SS-25 Pipe Trench Sludge	Sludge material not previously sampled.
DB3000VB	SS-25 Pipe Trench Sludge	Sludge material not previously sampled.
V327	SS-25 Earthen Sludge Outside Pipe Trench	Sludge material not previously sampled.
V509	SS-25 Earthen Sludge Outside Pipe Trench	Sludge material not previously sampled.
CT1106	SS-25 Crater Sludge/Oil Product	Oil material not previously sampled.
CT817	SS-25 Crater Sludge/Oil Product	Oil material not previously sampled.
CT824	SS-25 Crater Sludge/Oil Product	Oil material not previously sampled.

Unit DHVT#11, which contained 25A/25B Cellar/Pipe Trench Sludge, had also been selected for sampling. The unit was unable to be sampled because fall protection was required to access this unit; however, it was unavailable and the unit could not be safely accessed.

## 2.3 Sample Collection

### 2.3.1 Liquid Holding Tank

Resurfaced well control fluids were stored in a 20,000 gallon tank with an access port at the top, accessible by a staircase (identified as Unit Number TK-130). The contents appeared to be primarily water and were sampled by lowering a disposable bailer into the tank and allowing the bailer to fill, then slowly transferring the liquid at an angle into laboratory supplied containers. The transfer occurred over a 5-gallon bucket to contain any overflow. The overflow was then transferred back to the tank at the completion of sampling. The tank is estimated to be approximately eight to ten



with an approximately six foot water column. One sample was collected from this unit from approximately the middle of the water column.

### **2.3.2 Sludge Units**

Sampling from the selected bins was conducted using a hand auger. The bins contained varying amounts of sludge material. Units 23602, DB30001VB, and DB3000VB, were nearly full of sludge and contained approximately one foot of overlying water. A sample was collected from approximately the center of each bin at a depth of approximately 1.5 feet below the sludge/water interface. One 16-ounce laboratory supplied glass jar was filled from each location. Each soil sample was subsampled utilizing Environmental Protection Agency (EPA) 5035 methodology. This method utilized laboratory supplied disposable field methanol extraction syringes used to collect the aliquot directly from the glass jar and placed into six laboratory provided 40-milliliter (ml) glass volatile organic analysis (VOA) vials containing pre-weighed methanol or sodium bisulfate preservative.

Units V327 and V509 contained approximately 8-inches of soil and sludge. One sample was collected from each unit utilizing the methods described above at a depth of approximately 6-inches below the top of the soil.

### **2.3.3 Oil/Product Units**

Units CT1106, CT817, and CT824, contained a viscous and dense oil. A new stainless steel and decontaminated scoop was utilized at each unit to scoop oil from the top of the container into the 8-ounce glass jars.

## **2.3 Sample Identification, Handling, and Equipment Decontamination**

### **2.3.1 Sample Identification**

Each unit has been assigned a unique identification (ID) number by SoCalGas staff for inventory and tracking purposes. Sample containers from each selected unit were assigned an ID number that corresponds to the unit of origin. The unit ID for the water sample was followed by an "M" noting that it was collected from approximately the middle of the water column. The unit ID for sludge samples was followed by the sample number (-1) and then by the depth for the soil samples (-0.5 or -1.5) (it is noted that Unit V327 was identified by unit number only and did not note the depth of 0.5 feet on the sample ID). Field duplicate samples were design





a “D” at the end of the sample ID. The samples of oil collected from CT1106, CT817, and CT824 were only identified by the unit number.

Each sample container was marked in the field, with the sampling location ID, depth, date and time of sample collection, sampler’s name, type of analysis, and preservatives used, if any.

### **2.3.2 Sample Handling and Chain-of-Custody**

The samples were placed in zip lock bags and in ice chests cooled to approximately 4° Celsius for storage and transportation directly to Eurofins Calscience in Garden Grove, California, a State of California and National Environmental Laboratory Accreditation Program (NELAP) Certified laboratory.

For each sample that was submitted to the laboratory for analysis, an entry was made on the chain-of-custody form supplied by the laboratory. The information recorded included the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler’s name. Sampling team members maintained custody of the samples until they were relinquished to laboratory personnel. The chain-of-custody form accompanied the samples from the time of collection until received by the laboratory. Each party in possession of the samples signed the chain-of-custody form signifying receipt.

### **2.3.3 Split Sampling**

At each sampling location, a split sample of an equivalent sample size was collected and provided to AECOM, as well as the analytical list intended for that sample.

### **2.3.4 Equipment Decontamination**

The hand auger bucket was decontaminated before and after each sample was collected using the following procedures:

- Remove bulk solid debris and soil from the equipment using a long-handled brush into the bin of origin;
- Scrub with a phosphate-free laboratory detergent using a brush if necessary to remove remaining particulate matter and surface films:



- Potable water rinse;
- Distilled water rinse; and
- Allow equipment to air dry.

The equipment decontamination station, consisting of three 5-gallon buckets, was located in the bed of the field truck on Visqueen sheeting. Sampling equipment was placed on clean Visqueen to dry. At the end of the field sampling, the decontamination water was transferred into a water holding tank located at Well SS-7 utilized by AECOM for the storage of decontamination fluids from previous assessments.

The scoops utilized to collect the oil samples were not re-used and were left in the bins holding the oil.

#### **2.4 Field Quality Assurance/Quality Control Samples**

Ten percent of primary samples were collected as field duplicates and included one sludge sample. The duplicate sample was designated with a “D” at the end of the sample ID. The duplicate sample was analyzed for the same constituents as the primary sample.

An equipment blank was collected at the end of the day by decontaminating the hand auger barrel and then pouring deionized water through the barrel into laboratory supplied jars. The equipment blank sample was identified as “EB” followed by the date (EB-102920) and was analyzed for the same constituents listed on the chain-of-custody for the soil samples, with the exception of radioisotopes.

Laboratory-sealed trip blank samples were prepared and certified organic-free by the laboratory and were included with each of the sample coolers submitted to the laboratory. The trip blanks were labeled TB-1 through TB-4 and were analyzed for VOCs and gasoline range organics (GRO).



### 3.0 LABORATORY ANALYSIS

The samples were submitted to Eurofins Calscience in Garden Grove, California, a State of California and National Environmental Laboratory Accreditation Program (NELAP) Certified laboratory. The samples submitted are described to consist of the following media: one well control fluid sample, six sludge samples, and three samples described as “oil”. In addition, one equipment blank and four trip blanks were submitted. The table below summarizes the analytical methods and test descriptions utilized by the laboratory for the samples from each type of media:

Method	Test Description	Media Analyzed
EPA 6010B*	Title 22 Metals, Expanded Metals List, and Sulfur	Sludge, oil, and well control fluids (10 samples)
EPA 7471A	Mercury	Sludge and oil (9 samples)
EPA 7470A*	Mercury	Well control fluids (1 sample)
EPA 8015B*	Total Petroleum Hydrocarbons-Carbon Chain (C6-C44)	Sludge, oil, and well control fluids (10 samples)
EPA 5035/8015B**	Gasoline Range Organics (C4-C12)	Sludge, oil, and well control fluids (23 samples)
EPA 5035/8260B**	Volatile Organic Compounds	Sludge, oil, and well control fluids (10 samples)
GA-01-R-Radium-226 & Other Gamma Emitters (GS)	Po-210 Isotopes – subcontracted to Eurofins-Test America	Sludge (6 samples)
A-01-R-Isotopic Polonium (Alpha Spectrometry)	Pb-210 Isotopes – subcontracted to Eurofins-Test America	Sludge (6 samples)

\* The equipment blank (EB) was analyzed by this method

\*\* The equipment blank and the trip blanks (TB-1 through TB-4) were analyzed by this method

Note: The oil material was not able to be analyzed by EPA 7199 for hexavalent chromium; therefore it was extracted and analyzed by soluble methods for hexavalent chromium.

The analytical results for the test methods conducted by Eurofins Calscience (all methods excluding isotope analysis) for solids (sludge and oil) are summarized in Table 1. The laboratory report is included in Appendix B.



The analytical results for the Po-210 and Pb-210 Isotopes, subcontracted to Eurofins-Test America, are summarized in Table 2. The laboratory report is included in Appendix C.

The analytical results for the test methods conducted by Eurofins Calscience for the well control fluids and the QA/QC samples are summarized in Tables 4 and 5, respectively. The laboratory report is included in Appendix B.



#### 4.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. Opinions, conclusions, and recommendations contained in this report apply to conditions existing when the services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. Where subsurface exploratory work, monitoring, and/or testing was performed, our professional opinions and conclusions are based in part on interpretation of data from discrete sampling or measurement locations that may not represent actual conditions at un-sampled or un-measured locations. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of the services. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when the services were performed. We do not warranty the accuracy of information supplied by others, or the use of segregated portions of this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Leighton Consulting should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

Leighton Consulting's professional opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited assessment and chemical analyses data. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between and beyond the sampling locations.



## 5.0 REFERENCES

AECOM, 2020, Sampling and Analysis Plan for Units from Aliso Canyon SS-25 Project, Project No. 60637068, dated July 31, 2020.

Leighton Consulting, Inc., 2020, sampling and Analysis Report, Units from SS-25 Project, Aliso Canyon Natural Gas Storage Facility, 12801 Tampa Avenue, Porter Ranch, California 91326, dated October 2, 2020.



**TABLE 1 - SUMMARY OF EUROFINs LABORATORY ANALYTICAL RESULTS, SOLIDS  
ALISO CANYON SS-25 PROJECT**

Sample number	V23602-1-1.5	DB30001VB-1-1.5	DB3000VB-1-1.5	DB3000VB-1-1.5D	V327	V509-1-0.5	CT1106	CT817	CT824	
Media	Sludge	Sludge	Sludge	Sludge	Solid	Sludge	Oil/Product	Oil/Product	Oil/Product	
Date Sampled	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	
EPA METHOD 6010B/7471A/7199 in mg/kg Title 22 Metals, Expanded Metals List, Hexavalent Chromium, and Sulfur	Aluminum	4070	3280	3850	3860	5620	5300	109	1140	122
	Antimony	< 0.739	< 0.725	< 0.754	< 0.743	< 0.732	< 0.743	< 1.53	< 1.55	< 1.46
	Arsenic	6.53	5.38	6.36	6.80	4.63	2.05	< 1.53	< 1.55	< 1.46
	Barium	3170	2930	4420	4590	1410	708	114	1270	169
	Beryllium	0.737	0.615	0.719	0.690	0.994	0.842	< 0.510	< 0.515	< 0.485
	Boron	9.15	5.67	11.4	8.78	< 1.95	22.8	8.35	7.09	8.04
	Cadmium	4.67	3.93	4.67	3.66	5.93	5.05	< 1.02	1.71	< 0.971
	Calcium	14700	10100	12100	10700	12400	9360	267	3020	549
	Chromium	16.3	14.2	16.1	15.1	24.2	23.9	< 0.510	3.67	< 0.485
	Cobalt	0.798	0.468	< 0.251	< 0.248	4.58	5.74	0.565	0.869	< 0.485
	Copper	26.7	24.9	24.7	25.0	39.6	48.4	2.22	7.06	1.91
	Iron	11600	9440	11000	10900	21100	29000	489	3600	515
	Lead	9.95	4.98	6.09	5.65	12.8	7.55	< 1.02	1.48	< 0.971
	Magnesium	2060	1710	2650	2010	2830	2580	51.1	640	62.4
	Manganese	141	124	191	132	314	228	5.78	72.5	7.09
	Mercury	0.150	< 0.0806	< 0.0833	< 0.0847	< 0.0833	< 0.0820	< 0.0820	< 0.0794	< 0.0833
	Molybdenum	8.85	7.18	9.32	8.98	9.36	8.64	1.03	2.91	1.01
	Nickel	42.8	36.9	43.0	41.6	63.0	68.5	11.9	25.4	10.7
	Phosphorus	1030	903	981	960	1430	1090	28.7	369	35.0
	Potassium	2740	1950	2600	2740	2710	2670	66.6	653	81.1
	Selenium	< 0.739	< 0.725	< 0.754	< 0.743	< 0.732	< 0.743	< 1.53	< 1.55	< 1.46
	Silicon	197	165	218	223	195	198	32.8	84.3	23.6
Silver	< 0.246	< 0.242	< 0.251	< 0.248	< 0.244	< 0.248	< 0.510	< 0.515	< 0.485	
Sodium	542	417	449	452	729	454	123	312	138	
Strontium	218	120	162	170	89.0	68.2	3.71	25.4	8.10	
Thallium	< 0.739	< 0.725	< 0.754	< 0.743	< 0.732	< 0.743	< 1.53	< 1.55	< 1.46	
Tin	< 2.46	< 2.42	< 2.51	< 2.48	< 2.44	< 2.48	< 5.10	< 5.15	< 4.85	
Titanium	217	194	241	242	322	302	6.42	45.1	6.56	
Vanadium	66.7	56.4	67.5	63.0	83.8	78.6	7.65	19.9	6.96	
Zinc	162	121	177	154	124	90.3	2.93	23.7	2.99	

**TABLE 1 - SUMMARY OF EUROFINS LABORATORY ANALYTICAL RESULTS, SOLIDS  
ALISO CANYON SS-25 PROJECT**

Sample number	V23602-1-1.5	DB30001VB-1-1.5	DB3000VB-1-1.5	DB3000VB-1-1.5D	V327	V509-1-0.5	CT1106	CT817	CT824	
Media	Sludge	Sludge	Sludge	Sludge	Solid	Sludge	Oil/Product	Oil/Product	Oil/Product	
Date Sampled	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	
<b>EPA METHOD 8015B in mg/kg Total Petroleum Hydrocarbons-Carbon Chain (C6-C44) 5035/8015B Gasoline Range Organics</b>	C6	< 4.9	< 4.9	< 4.9	< 4.9	< 5.0	< 5.0	< 4200	< 2300	< 9000
	C7	< 4.9	< 4.9	< 4.9	< 4.9	< 5.0	< 5.0	< 4200	< 2300	< 9000
	C8	< 4.9	< 4.9	< 4.9	< 4.9	< 5.0	< 5.0	< 4200	< 2300	< 9000
	C9-C10	<b>12</b>	<b>24</b>	<b>47</b>	<b>22</b>	< 5.0	< 5.0	< 4200	< 2300	< 9000
	C11-C12	<b>41</b>	<b>83</b>	<b>160</b>	<b>82</b>	<b>12</b>	< 5.0	< 4200	< 2300	< 9000
	C13-C14	<b>49</b>	<b>110</b>	<b>200</b>	<b>110</b>	<b>37</b>	<b>8.0</b>	<b>23000</b>	<b>10000</b>	<b>28000</b>
	C15-C16	<b>34</b>	<b>80</b>	<b>150</b>	<b>78</b>	<b>55</b>	<b>8.8</b>	<b>56000</b>	<b>22000</b>	<b>62000</b>
	C17-C18	<b>39</b>	<b>93</b>	<b>170</b>	<b>91</b>	<b>84</b>	<b>12</b>	<b>82000</b>	<b>32000</b>	<b>86000</b>
	C19-C20	<b>32</b>	<b>77</b>	<b>140</b>	<b>76</b>	<b>71</b>	<b>10</b>	<b>65000</b>	<b>25000</b>	<b>67000</b>
	C21-C22	<b>16</b>	<b>39</b>	<b>73</b>	<b>39</b>	<b>45</b>	<b>6.4</b>	<b>51000</b>	<b>19000</b>	<b>52000</b>
	C23-C24	<b>7.1</b>	<b>17</b>	<b>35</b>	<b>18</b>	<b>29</b>	< 5.0	<b>41000</b>	<b>15000</b>	<b>42000</b>
	C25-C28	<b>11</b>	<b>28</b>	<b>58</b>	<b>30</b>	<b>58</b>	<b>8.5</b>	<b>74000</b>	<b>28000</b>	<b>76000</b>
	C29-C32	<b>8.8</b>	<b>24</b>	<b>52</b>	<b>26</b>	<b>53</b>	<b>8.7</b>	<b>64000</b>	<b>24000</b>	<b>64000</b>
	C33-C36	< 4.9	<b>14</b>	<b>32</b>	<b>16</b>	<b>31</b>	<b>5.3</b>	<b>37000</b>	<b>15000</b>	<b>37000</b>
	C37-C40	< 4.9	<b>6.6</b>	<b>16</b>	<b>8.2</b>	<b>15</b>	< 5.0	<b>17000</b>	<b>7300</b>	<b>17000</b>
	C41-C44	< 4.9	< 4.9	< 4.9	< 4.9	< 5.0	< 5.0	<b>6500</b>	<b>3300</b>	< 9000
	C6-C44 Total	<b>260</b>	<b>590</b>	<b>1100</b>	<b>590</b>	<b>490</b>	<b>78</b>	<b>520000</b>	<b>200000</b>	<b>540000</b>
Diesel Range Organics (C10-C28)	<b>240</b>	<b>540</b>	<b>1000</b>	<b>530</b>	<b>390</b>	<b>61</b>	<b>390000</b>	<b>150000</b>	<b>410000</b>	
TPH as Motor Oil (C29-C44)	<b>15</b>	<b>46</b>	<b>100</b>	<b>52</b>	<b>100</b>	<b>17</b>	<b>120000</b>	<b>49000</b>	<b>120000</b>	
Gas Range Organics (C4-C12)	<b>1100</b>	<b>1200</b>	<b>0.52</b>	<b>270</b>	<b>5.5</b>	<b>1100</b>	<b>290</b>	<b>410</b>	<b>360</b>	
<b>EPA METHOD 8260B in µg/kg Volatile Organic Compounds</b>	1,1,1,2-Tetrachloroethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,1,1-Trichloroethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,1,2,2-Tetrachloroethane	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	1,1,2-Trichloro-1,2,2-trifluoroethane	< 2100	< 1200	< 5200	< 2500	< 430	< 390	< 5000	< 5100	< 4900
	1,1,2-Trichloroethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,1-Dichloroethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,1-Dichloroethene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,1-Dichloropropene	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	1,2,3-Trichlorobenzene	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	1,2,3-Trichloropropane	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	1,2,4-Trichlorobenzene	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	1,2,4-Trimethylbenzene	<b>13000</b>	<b>5800</b>	<b>23000</b>	<b>15000</b>	< 87	< 78	<b>16000</b>	<b>13000</b>	<b>15000</b>
	1,2-Dibromo-3-Chloropropane	< 2100	< 1200	< 5200	< 2500	< 430	< 390	< 5000	< 5100	< 4900
	1,2-Dibromoethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,2-Dichlorobenzene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,2-Dichloroethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,2-Dichloropropane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
1,3,5-Trimethylbenzene	<b>5000</b>	<b>2200</b>	<b>8900</b>	<b>5900</b>	< 87	< 78	<b>6300</b>	<b>5400</b>	<b>6400</b>	
1,3-Butadiene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490	
1,3-Dichlorobenzene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490	



**TABLE 1 - SUMMARY OF EUROFINS LABORATORY ANALYTICAL RESULTS, SOLIDS  
ALISO CANYON SS-25 PROJECT**

Sample number	V23602-1-1.5	DB30001VB-1-1.5	DB3000VB-1-1.5	DB3000VB-1-1.5D	V327	V509-1-0.5	CT1106	CT817	CT824	
Media	Sludge	Sludge	Sludge	Sludge	Solid	Sludge	Oil/Product	Oil/Product	Oil/Product	
Date Sampled	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	
EPA METHOD 8260B in µg/kg Volatile Organic Compounds	1,3-Dichloropropane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,4-Dichlorobenzene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	1,4-Dioxane	< 21000	< 12000	< 52000	< 25000	< 4300	< 3900	< 50000	< 51000	< 49000
	2,2,4-Trimethylpentane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	2,2-Dichloropropane	< 1000	< 590	< 2600	< 1200	< 220	< 190	< 2500	< 2500	< 2500
	2-Butanone	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	2-Chloroethyl vinyl ether	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	2-Chlorotoluene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	2-Hexanone	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	2-Methyl-2-butanol (TAA)	< 10000	< 5900	< 26000	< 12000	< 2200	< 1900	< 25000	< 25000	< 25000
	4-Chlorotoluene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	4-Methyl-2-pentanone	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	Acetone	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	Acetonitrile	< 8300	< 4700	< 21000	< 9800	< 1700	< 1600	< 20000	< 20000	< 20000
	Acrolein	< 10000	< 5900	< 26000	< 12000	< 2200	< 1900	< 25000	< 25000	< 25000
	Acrylonitrile	< 5200	< 3000	< 13000	< 6200	< 1100	< 970	< 12000	< 13000	< 12000
	Benzene	<b>360</b>	<b>180</b>	< 520	< 250	< 43	< 39	<b>1700</b>	<b>1700</b>	<b>1600</b>
	Bromobenzene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Bromochloromethane	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	Bromodichloromethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Bromoform	< 1000	< 590	< 2600	< 1200	< 220	< 190	< 2500	< 2500	< 2500
	Bromomethane	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	Carbon disulfide	< 2100	< 1200	< 5200	< 2500	< 430	< 390	< 5000	< 5100	< 4900
	Carbon tetrachloride	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Chlorobenzene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Chloroethane	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	Chloroform	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Chloromethane	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	cis-1,2-Dichloroethene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	cis-1,3-Dichloropropene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Cyclohexane	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	Dibromochloromethane	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	Dibromomethane	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Dichlorodifluoromethane	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
Diethyl ether	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800	
Di-isopropyl ether (DIPE)	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490	
Ethanol	< 52000	< 30000	< 130000	< 62000	< 11000	< 9700	< 120000	< 130000	< 120000	
Ethylbenzene	<b>1900</b>	<b>850</b>	<b>2500</b>	<b>1700</b>	< 43	< 39	<b>2500</b>	<b>2100</b>	<b>2400</b>	
Ethyl-t-butyl ether (ETBE)	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490	
Hexachloro-1,3-butadiene	< 1000	< 590	< 2600	< 1200	< 220	< 190	< 2500	< 2500	< 2500	

**TABLE 1 - SUMMARY OF EUROFINS LABORATORY ANALYTICAL RESULTS, SOLIDS  
ALISO CANYON SS-25 PROJECT**

Sample number	V23602-1-1.5	DB30001VB-1-1.5	DB3000VB-1-1.5	DB3000VB-1-1.5D	V327	V509-1-0.5	CT1106	CT817	CT824	
Media	Sludge	Sludge	Sludge	Sludge	Solid	Sludge	Oil/Product	Oil/Product	Oil/Product	
Date Sampled	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020	
EPA METHOD 8260B in µg/kg Volatile Organic Compounds	Hexane	< 1000	< 590	< 2600	< 1200	< 220	< 190	< 2500	< 2500	< 2500
	Iodomethane	< 10000	< 5900	< 26000	< 12000	< 2200	< 1900	< 25000	< 25000	< 25000
	Isobutyl alcohol	< 10000	< 5900	< 26000	< 12000	< 2200	< 1900	< 25000	< 25000	< 25000
	Isopropanol	< 26000	< 15000	< 65000	< 31000	< 5400	< 4900	< 62000	< 63000	< 61000
	Isopropylbenzene	<b>650</b>	<b>290</b>	<b>1000</b>	<b>720</b>	< 43	< 39	<b>840</b>	<b>680</b>	<b>760</b>
	m,p-Xylene	<b>11000</b>	<b>1500</b>	<b>4200</b>	<b>3000</b>	< 21	< 18	<b>16000</b>	<b>14000</b>	<b>17000</b>
	Methylene Chloride	< 2100	< 1200	< 5200	< 2500	< 430	< 390	< 5000	< 5100	< 4900
	Methyl-t-Butyl Ether (MTBE)	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	Naphthalene	<b>38000</b>	<b>20000</b>	<b>62000</b>	<b>47000</b>	< 430	< 390	<b>85000</b>	<b>60000</b>	<b>91000</b>
	n-Butylbenzene	<b>2200</b>	<b>950</b>	<b>4600</b>	<b>2700</b>	< 43	< 39	<b>3200</b>	<b>2900</b>	<b>3200</b>
	N-Propylbenzene	<b>1500</b>	<b>650</b>	<b>2400</b>	<b>1600</b>	< 87	< 78	<b>1700</b>	<b>1400</b>	<b>1600</b>
	o-Xylene	<b>4500</b>	<b>380</b>	<b>5000</b>	<b>3700</b>	< 43	< 39	<b>6100</b>	<b>5000</b>	<b>5900</b>
	p-Isopropyltoluene	<b>1200</b>	<b>480</b>	<b>2400</b>	<b>1400</b>	< 43	< 39	<b>1400</b>	<b>1300</b>	<b>1400</b>
	sec-Butylbenzene	<b>610</b>	<b>250</b>	<b>1200</b>	<b>720</b>	< 43	< 39	<b>790</b>	<b>700</b>	<b>710</b>
	Styrene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Tert-amyl-methyl ether (TAME)	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	tert-Butyl alcohol (TBA)	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	tert-Butylbenzene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Tetrachloroethene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	Tetrahydrofuran	< 4100	< 2400	< 10000	< 4900	< 870	< 780	< 9900	< 10000	< 9800
	Thiophene	< 1000	< 590	< 2600	< 1200	< 220	< 190	< 2500	< 2500	< 2500
	Toluene	<b>1500</b>	< 120	< 520	< 250	< 43	< 39	<b>8800</b>	<b>8000</b>	<b>8500</b>
	trans-1,2-Dichloroethene	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490
	trans-1,3-Dichloropropene	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	trans-1,4-Dichloro-2-butene	< 2100	< 1200	< 5200	< 2500	< 430	< 390	< 5000	< 5100	< 4900
	Trichloroethene	< 410	< 240	< 1000	< 490	< 87	< 78	< 990	< 1000	< 980
	Trichlorofluoromethane	< 2100	< 1200	< 5200	< 2500	< 430	< 390	< 5000	< 5100	< 4900
	Vinyl acetate	< 2100	< 1200	< 5200	< 2500	< 430	< 390	< 5000	< 5100	< 4900
Vinyl chloride	< 210	< 120	< 520	< 250	< 43	< 39	< 500	< 510	< 490	
Xylenes, Total	<b>16000</b>	<b>1900</b>	<b>9200</b>	<b>6700</b>	< 130	< 120	<b>22000</b>	<b>19000</b>	<b>23000</b>	

**Notes:**

<0.500 = Result is less than the laboratory method detection limit (change to reporting limit (RL))

-- = Not analyzed

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

**TABLE 2 - Po-210 AND Pb-210 ISOTOPE ANALYTICAL RESULTS**

**ALISO CANYON SS-25 PROJECT**

Po-210 by Method A-01-R - Isotopic Polonium (Alpha Spectrometry)

Pb-210 by Method GA-01-R - Radium-226 Other Gamma Emitters (GS)

<b>Sample ID</b>	<b>Date</b>	<b>Polonium-210 (pCi/g)</b>	<b>Lead-210 (pCi/g)</b>
V509-1-0.5	10/29/2020	<b>1.79</b>	2.42
V23602-1-1.5	10/29/2020	<b>1.54</b>	1.78 U
DB30001VB-1-1.5	10/29/2020	<b>1.83</b>	2.48
DB3000VB-1-1.5	10/29/2020	<b>1.4</b>	1.52
DB3000VB-1-1.5D	10/29/2020	<b>2.29</b>	-0.490 U
V327	10/29/2020	<b>2.86</b>	2.39

Notes:

Po-210 = Polonium-210 isotope

Pb-210 = Lead-210 isotope

pCi/g = Picocuries per gram

MDC = Minimum Detectable Concentration

RL = Reporting Limit

**Bold** = Result is greater than the RL

U = Result is less than the sample detection limit or MDC

**TABLE 3 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, WELL CONTROL FLUIDS  
ALISO CANYON SS-25 PROJECT**

<b>Sample number</b>		<b>TK130-M</b>
<b>Media</b>		Well Control Fluids
<b>Date Sampled</b>		<b>10/29/2020</b>
<b>EPA METHOD 6010B/7471A/7199 in mg/L Title 22 Metals, Expanded Metals List, Hexavalent Chromium, and Sulfur</b>	Aluminum	<0.500
	Antimony	<0.100 L
	Arsenic	<0.100 L
	Barium	<b>9.47</b>
	Beryllium	<0.100
	Boron	<b>1.83</b>
	Cadmium	<0.100
	Calcium	<b>6910</b>
	Chromium	<0.0500
	Cobalt	<0.0500
	Copper	<0.0500
	Iron	<b>7.12</b>
	Lead	<0.0500
	Magnesium	<b>202</b>
	Manganese	<b>12.0</b>
	Mercury	<0.000500
	Molybdenum	<0.0500
	Nickel	<0.0500
	Phosphorus	<0.250
	Potassium	<b>1640</b>
	Selenium	<0.100
	Silicon	<b>12.9</b>
Silver	<0.0100	
Sodium	<b>913</b>	
Strontium	<b>111</b>	
Thallium	<b>0.0583</b>	
Titanium	<0.0500 L	
Vanadium	<b>0.0127</b>	
Zinc	<0.250	

**TABLE 3 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, WELL CONTROL FLUIDS  
ALISO CANYON SS-25 PROJECT**

<b>Sample number</b>		<b>TK130-M</b>
<b>Media</b>		Well Control Fluids
<b>Date Sampled</b>		<b>10/29/2020</b>
<b>EPA METHOD 8015B in µg/L Total Petroleum Hydrocarbons-Carbon Chain (C6-C44) 5035/8015B in µg/L Gasoline Range Organics</b>	C6	<48
	C7	<48
	C8	<48
	C9-C10	<48
	C11-C12	<b>140</b>
	C13-C14	<b>220</b>
	C15-C16	<b>260</b>
	C17-C18	<b>260</b>
	C19-C20	<b>240</b>
	C21-C22	<b>290</b>
	C23-C24	<b>990</b>
	C25-C28	<b>3500</b>
	C29-C32	<b>3300</b>
	C33-C36	<b>1800</b>
	C37-C40	<b>550</b>
	C41-C44	<b>190</b>
	C6-C44 Total	<b>17000</b>
Diesel Range Organics (C10-C28)	<b>6000</b>	
TPH as Motor Oil (C29-C44)	<b>5900</b>	
Gas Range Organics (C4-C12)	<b>160</b>	

**TABLE 3 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, WELL CONTROL FLUIDS  
ALISO CANYON SS-25 PROJECT**

Sample number		TK130-M
Media		Well Control Fluids
Date Sampled		<b>10/29/2020</b>
EPA METHOD 8260B in µg/L Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	< 2.0
	1,1,1-Trichloroethane	< 1.0
	1,1,2,2-Tetrachloroethane	< 1.0
	1,1,2-Trichloro-1,2,2-trifluoroethane	< 10
	1,1,2-Trichloroethane	< 1.0
	1,1-Dichloroethane	< 1.0
	1,1-Dichloroethene	< 1.0
	1,1-Dichloropropene	< 1.0
	1,2,3-Trichlorobenzene	< 1.0
	1,2,3-Trichloropropane	< 5.0
	1,2,4-Trichlorobenzene	<b>1.3</b>
	1,2,4-Trimethylbenzene	< 1.0
	1,2-Dibromo-3-Chloropropane	< 10
	1,2-Dibromoethane	< 1.0
	1,2-Dichlorobenzene	< 1.0
	1,2-Dichloroethane	< 0.50
	1,2-Dichloropropane	< 1.0
	1,3,5-Trimethylbenzene	< 1.0
	1,3-Butadiene	< 25
	1,3-Dichlorobenzene	< 1.0
	1,3-Dichloropropane	< 1.0
	1,4-Dichlorobenzene	< 1.0
	1,4-Dioxane	< 100
	2,2,4-Trimethylpentane	< 10
	2,2-Dichloropropane	< 1.0
	2-Butanone	< 20
	2-Chloroethyl vinyl ether	< 50
	2-Chlorotoluene	< 1.0
	2-Hexanone	< 10
	2-Methyl-2-butanol (TAA)	< 50
	4-Chlorotoluene	< 1.0
	4-Methyl-2-pentanone	< 10
	Acetone	< 20
Acetonitrile	< 50	
Acrolein	< 50	
Acrylonitrile	< 20	
Benzene	< 0.50	
Bromobenzene	< 1.0	

**TABLE 3 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, WELL CONTROL FLUIDS  
ALISO CANYON SS-25 PROJECT**

Sample number		TK130-M
Media		Well Control Fluids
Date Sampled		10/29/2020
EPA METHOD 8260B in µg/L Volatile Organic Compounds	Bromochloromethane	< 2.0
	Bromodichloromethane	< 1.0
	Bromoform	< 5.0
	Bromomethane	< 50
	Carbon disulfide	< 10
	Carbon tetrachloride	< 0.50
	Chlorobenzene	< 1.0
	Chloroethane	< 5.0
	Chloroform	< 1.0
	Chloromethane	< 10
	cis-1,2-Dichloroethene	< 1.0
	cis-1,3-Dichloropropene	< 0.50
	Cyclohexane	< 10
	Dibromochloromethane	< 2.0
	Dibromomethane	< 1.0
	Dichlorodifluoromethane	< 5.0
	Diethyl ether	< 10
	Di-isopropyl ether (DIPE)	< 2.0
	Ethanol	< 100
	Ethylbenzene	< 1.0
	Ethyl-t-butyl ether (ETBE)	< 2.0
	Hexachloro-1,3-butadiene	< 20
	Hexane	< 5.0
	Iodomethane	< 50
	Isobutyl alcohol	< 50
	Isopropanol	< 200
	Isopropylbenzene	< 1.0
	m,p-Xylene	< 2.0
	Methylene Chloride	< 10
	Methyl-t-Butyl Ether (MTBE)	< 1.0
	Naphthalene	< 10
	n-Butylbenzene	< 1.0
N-Propylbenzene	< 1.0	
o-Xylene	< 1.0	
p-Isopropyltoluene	< 1.0	
sec-Butylbenzene	< 1.0	
Styrene	< 1.0	
Tert-amyl-methyl ether (TAME)	< 2.0	

**TABLE 3 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, WELL CONTROL FLUIDS  
ALISO CANYON SS-25 PROJECT**

<b>Sample number</b>		<b>TK130-M</b>
<b>Media</b>		Well Control Fluids
<b>Date Sampled</b>		<b>10/29/2020</b>
<b>EPA METHOD 8260B in µg/L Volatile Organic Compounds</b>	tert-Butyl alcohol (TBA)	< 10
	tert-Butylbenzene	< 1.0
	Tetrachloroethene	< 1.0
	Tetrahydrofuran	< 20
	Thiophene	< 10
	Toluene	< 1.0
	trans-1,2-Dichloroethene	< 1.0
	trans-1,3-Dichloropropene	< 0.50
	trans-1,4-Dichloro-2-butene	< 20
	Trichloroethene	< 1.0
	Trichlorofluoromethane	< 10
	Vinyl acetate	< 10
	Vinyl chloride	< 0.50
	Xylenes, Total	< 3.0

**Notes:**

<0.500 = Result is less than the laboratory reporting limit (RL)

L = A negative instrument reading had an absolute value greater than the reporting limit

µg/L = Micrograms per liter

mg/L = Milligrams per liter



**TABLE 4 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, EQUIPMENT AND TRIP BLANKS  
ALISO CANYON SS-25 PROJECT**

Sample number	EB-102920	TB-1	TB-2	TB-3	TB-4
<b>Media</b>	Equipment Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
<b>Date Sampled</b>	<b>10/29/2020</b>	<b>10/29/2020</b>	<b>10/29/2020</b>	<b>10/29/2020</b>	<b>10/29/2020</b>
<b>EPA METHOD 6010B/7471A/7199 in mg/L</b>  <b>Title 22 Metals, Expanded Metals List, Hexavalent Chromium, and Sulfur</b>	Aluminum	<0.500	--	--	--
	Antimony	<0.100	--	--	--
	Arsenic	<0.100	--	--	--
	Barium	<0.0100	--	--	--
	Beryllium	<0.0100	--	--	--
	Boron	<0.500	--	--	--
	Cadmium	<0.0100	--	--	--
	Calcium	<2.00	--	--	--
	Chromium	<0.0500	--	--	--
	Cobalt	<0.0500	--	--	--
	Copper	<0.0500	--	--	--
	Iron	<0.500	--	--	--
	Lead	<0.0500	--	--	--
	Magnesium	<0.500	--	--	--
	Manganese	<0.0500	--	--	--
	Mercury	<0.000500	--	--	--
	Molybdenum	<0.0500	--	--	--
	Nickel	<0.0500	--	--	--
	Phosphorus	<0.250	--	--	--
	Potassium	<2.00	--	--	--
	Selenium	<0.100	--	--	--
	Silicon	<b>0.817</b>	--	--	--
	Silver	<0.0100	--	--	--
Sodium	<2.00	--	--	--	
Strontium	<0.0100	--	--	--	
Thallium	<0.0500	--	--	--	
Titanium	<0.0500	--	--	--	
Vanadium	<0.0100	--	--	--	
Zinc	<0.250	--	--	--	
<b>EPA METHOD 8015B in µg/L</b>  <b>Total Petroleum Hydrocarbons-Carbon Chain (C6-C44)</b> <b>5035/8015B in µg/L Gasoline Range Organics</b>	C6	<50	--	--	--
	C7	<50	--	--	--
	C8	<50	--	--	--
	C9-C10	<50	--	--	--
	C11-C12	<50	--	--	--
	C13-C14	<50	--	--	--
	C15-C16	<50	--	--	--
	C17-C18	<50	--	--	--
	C19-C20	<50	--	--	--
	C21-C22	<50	--	--	--
	C23-C24	<50	--	--	--
	C25-C28	<50	--	--	--
	C29-C32	<50	--	--	--
	C33-C36	<50	--	--	--
	C37-C40	<50	--	--	--
	C41-C44	<50	--	--	--
C6-C44 Total	<50	--	--	--	
Diesel Range Organics (C10-C28)	<50	--	--	--	
TPH as Motor Oil (C29-C44)	<50	--	--	--	
Gas Range Organics (C4-C12)	<50	<50	<50	<50	<50

**TABLE 4 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, EQUIPMENT AND TRIP BLANKS  
ALISO CANYON SS-25 PROJECT**

Sample number	EB-102920	TB-1	TB-2	TB-3	TB-4
Media	Equipment Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date Sampled	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020
EPA METHOD 8260B in µg/L Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	< 2.0	< 2.0	< 2.0	< 2.0
	1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
	1,1,2-Trichloro-1,2,2-trifluoroethane	< 10	< 10	< 10	< 10
	1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
	1,1-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,3-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,3-Trichloropropane	< 5.0	< 5.0	< 5.0	< 5.0
	1,2,4-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
	1,2,4-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dibromo-3-Chloropropane	< 10	< 10	< 10	< 10
	1,2-Dibromoethane	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
	1,2-Dichloroethane	< 0.50	< 0.50	< 0.50	< 0.50
	1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
	1,3,5-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Butadiene	< 25	< 25	< 25	< 25
	1,3-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
	1,3-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
	1,4-Dioxane	< 100	< 100	< 100	< 100
	2,2,4-Trimethylpentane	< 10	< 10	< 10	< 10
	2,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
	2-Butanone	< 20	< 20	< 20	< 20
	2-Chloroethyl vinyl ether	< 50	< 50	< 50	< 50
	2-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
	2-Hexanone	< 10	< 10	< 10	< 10
	2-Methyl-2-butanol (TAA)	< 50	< 50	< 50	< 50
	4-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
	4-Methyl-2-pentanone	< 10	< 10	< 10	< 10
	Acetone	< 20	< 20	< 20	< 20
	Acetonitrile	< 50	< 50	< 50	< 50
	Acrolein	< 50	< 50	< 50	< 50
	Acrylonitrile	< 20	< 20	< 20	< 20
	Benzene	< 0.50	< 0.50	< 0.50	< 0.50
	Bromobenzene	< 1.0	< 1.0	< 1.0	< 1.0
	Bromochloromethane	< 2.0	< 2.0	< 2.0	< 2.0
	Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0
	Bromoform	< 5.0	< 5.0	< 5.0	< 5.0
	Bromomethane	< 50	< 50	< 50	< 50
Carbon disulfide	< 10	< 10	< 10	< 10	
Carbon tetrachloride	< 0.50	< 0.50	< 0.50	< 0.50	
Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroethane	< 5.0	< 5.0	< 5.0	< 5.0	
Chloroform	< 1.0	< 1.0	< 1.0	< 1.0	
Chloromethane	< 10	< 10	< 10	< 10	
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50	
Cyclohexane	< 10	< 10	< 10	< 10	
Dibromochloromethane	< 2.0	< 2.0	< 2.0	< 2.0	
Dibromomethane	< 1.0	< 1.0	< 1.0	< 1.0	

**TABLE 4 - SUMMARY OF LABORATORY ANALYTICAL RESULTS, EQUIPMENT AND TRIP BLANKS  
ALISO CANYON SS-25 PROJECT**

Sample number	EB-102920	TB-1	TB-2	TB-3	TB-4
Media	Equipment Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Date Sampled	10/29/2020	10/29/2020	10/29/2020	10/29/2020	10/29/2020
<b>EPA METHOD 8260B in µg/L Volatile Organic Compounds</b>	Dichlorodifluoromethane	< 5.0	< 5.0	< 5.0	< 5.0
	Diethyl ether	< 10	< 10	< 10	< 10
	Di-isopropyl ether (DIPE)	< 2.0	< 2.0	< 2.0	< 2.0
	Ethanol	< 100	< 100	< 100	< 100
	Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	Ethyl-t-butyl ether (ETBE)	< 2.0	< 2.0	< 2.0	< 2.0
	Hexachloro-1,3-butadiene	< 20	< 20	< 20	< 20
	Hexane	< 5.0	< 5.0	< 5.0	< 5.0
	Iodomethane	< 50	< 50	< 50	< 50
	Isobutyl alcohol	< 50	< 50	< 50	< 50
	Isopropanol	< 200	< 200	< 200	< 200
	Isopropylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	m,p-Xylene	< 2.0	< 2.0	< 2.0	< 2.0
	Methylene Chloride	< 10	< 10	< 10	< 10
	Methyl-t-Butyl Ether (MTBE)	< 1.0	< 1.0	< 1.0	< 1.0
	Naphthalene	< 10	< 10	< 10	< 10
	n-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	N-Propylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	o-Xylene	< 1.0	< 1.0	< 1.0	< 1.0
	p-Isopropyltoluene	< 1.0	< 1.0	< 1.0	< 1.0
	sec-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	Styrene	< 1.0	< 1.0	< 1.0	< 1.0
	Tert-amyl-methyl ether (TAME)	< 2.0	< 2.0	< 2.0	< 2.0
	tert-Butyl alcohol (TBA)	< 10	< 10	< 10	< 10
	tert-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrachloroethene	< 1.0	< 1.0	< 1.0	< 1.0
	Tetrahydrofuran	< 20	< 20	< 20	< 20
	Thiophene	< 10	< 10	< 10	< 10
	Toluene	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
	trans-1,3-Dichloropropene	< 0.50	< 0.50	< 0.50	< 0.50
	trans-1,4-Dichloro-2-butene	< 20	< 20	< 20	< 20
	Trichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	< 10	< 10	< 10	< 10	
Vinyl acetate	< 10	< 10	< 10	< 10	
Vinyl chloride	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes, Total	< 3.0	< 3.0	< 3.0	< 3.0	

**Notes:**

<0.500 = Result is less than the laboratory reporting limit (RL)

-- = Not analyzed

µg/L = Micrograms per liter

mg/L = Milligrams per liter

## APPENDIX A

AECOM Sampling and Analysis Plan (SAP),  
dated July 31, 2020



Leighton

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Camarillo, CA 93012  
USA  
aecom.com

July 31, 2020

Ms. Megan Lorenz  
Southern California Gas Company  
555 West 5th Street  
Los Angeles, California 90013

AECOM Project No. 60637068

**Subject: Sampling and Analysis Plan for Units from Aliso Canyon SS-25 Project**

Dear Ms. Lorenz:

This Sampling and Analysis Plan (SAP) has been prepared regarding the categorization of materials temporarily stored in units (roll-off bins or other containers) that were collected during the remediation of the Aliso Canyon Well Failure. Each unit can hold approximately 20 cubic yards of material. The units on site were under evidentiary hold by the California Public Utilities Commission, Safety and Enforcement Division (CPUC SED) until May 26, 2020 and are visibly marked.

This SAP includes a description of the procedures for sampling and analysis of the materials in the units for their categorization prior to disposal.

### **Objectives of Sampling and Analysis**

The objectives of this sampling and analysis are to:

- Characterize the materials in the units for their disposal
- Determine if any of the materials in the units are hazardous wastes based on their characteristics (ignitability, corrosivity, reactivity, or toxicity);
- Identify potential chemicals of concern and determine their concentration; and
- Prepare a report summarizing the results upon completion of the sampling and analysis.

This SAP has been prepared to achieve the aforementioned objectives and is based in part on information provided by SoCal Gas. The scope of work consists of the following tasks:

Task 1 – Health and Safety Planning and Pre-field Activities,

Task 2 – Sampling Procedures and Equipment Decontamination,

Task 3 – Sample Labeling and Handling,

Task 4 – Sample Analysis,

Task 5 – Quality Assurance/Quality Control,

Task 6 – Investigation-Derived Waste Handling, and

Task 7 – Submittal of Reports to SoCalGas.

Samples will be submitted to Eurofins-Calscience Analytical Laboratories, Inc. (Calscience) for analyses. Calscience is an environmental laboratory certified by the State of California Environmental Laboratory Accreditation Program (California ELAP certification number 2944).

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The technical approaches for the tasks are discussed in the following sections.

## Task 1 - Health and Safety Planning and Pre-Field Activities

### Health and Safety Planning

Sampling will be performed under a site-specific Health and Safety Plan (HASP). The HASP was designed to identify, evaluate, and mitigate hazards, and to outline emergency response actions for field activities. The HASP must be kept onsite during work activities and made available to all workers including subcontractors and other site occupants for informational purposes. Prior to sampling activities, field work personnel entering the site, including subcontractors, must complete health and safety training including Hazardous Waste Operations and Emergency Response and specific trainings associated with the Aliso Canyon facility as applicable to their role and task.

A daily tailgate safety meeting will be conducted during sampling activities to review tasks planned for each day and associated hazards and mitigations and to identify potential risks. The tailgate meeting may also include notices and updates from the SoCal Gas safety, security, or environment staff. Attendance at the daily tailgate safety meeting will be recorded, and those records will be kept in the HASP until a revised or updated HASP is prepared.

The HASP includes site personnel responsibilities and training requirements, selection and use of personal protective equipment (PPE), monitoring requirements to identify potential exposures to hazardous materials, emergency identification and response procedures, and other necessary controls. The HASP will be reviewed and signed by the field staff.

### Pre-Field Activities

SoCal Gas will be notified at least 1 day prior to sampling activities. The laboratory will provide materials including sample bottles and ice chests required for the field activities.

## Task 2 – Unit Selection and Sampling Procedures

### Randomized Unit Selection Procedure

The materials stored in the units have been grouped based on generator knowledge into categories of similar materials based on area of origin and observed composition of unit contents. Currently there are 31 categories of materials and more categories may be added if dissimilar materials are identified in AECOM's review of the unit contents. Within each category, 20% of the units will be selected at random for sampling. At least 1 unit per category will be sampled unless the category can be excluded (such as metal waste for recycling). Random selection of units for sampling was accomplished by assigning a sequential number to each unit in a category and using an excel-based random number generator to select units until at least 20% of the units have been identified. A listing of units and categories is provided as **Attachment 1**. If field sampling staff are unable to collect samples from one of the randomly pre-selected units, for safety reasons for example, the samples may be collected from an alternate unit containing similar materials. Variances from the sampling and analysis plan including rationale for sampling from an alternate unit will be documented by field staff for project records.

### Soil Sampling Procedure within a selected bin

Containers for soil are primarily 20-yard roll-off type bins. Sampling from each bin containing soil is proposed to be conducted using a hand auger. In order to properly characterize the contents in each bin, three discrete samples will be collected for the analysis of volatile organic compounds (VOCs) and total petroleum hydrocarbons quantified as gasoline-range organics in the carbon range of C<sub>4</sub> to C<sub>12</sub> (TPH C<sub>4</sub>-C<sub>12</sub>), and one composite sample for all remaining analyses. Sampling locations within bins selected for sampling will be based on a systematic stratified grid sampling procedure to represent the entire bin (**Attachment 2**). The composite sample will be composed of six approximately 8-ounce (oz) aliquots from the hand-auger bucket, three of which will be collected at a depth of 0.5 to 1 foot below the material surface, and three aliquots will be collected from within 3 feet of the bottom of the bin.

The three discrete samples will be collected using United States Environmental Protection Agency (US EPA) Method 5035A kits from three of the 8-oz aliquots prior to compositing. The discrete samples will be collected from the three aliquots taken from within 3 feet of the bottom of the bin. To create the composite sample, the six (8-oz) samples will be emptied into a self-sealing bag (e.g., Ziploc™), measuring 2 gallons in size or larger, and homogenized onsite. To homogenize the soil, the self-sealing bag will be sealed, and the soil in the bag will be thoroughly mixed using hand pressure to manually break-up clumps of soil while the bag is repeatedly inverted to promote mixing of soils inside of the bag. Homogenization will be performed for at least 120 seconds until the appearance of the soil is relatively uniform. The soil in the bag will then be transferred to laboratory-supplied jars while onsite.

Any remaining composited soil will be placed back into the unit of origin. If any of the samples must be split between a third party, the split samples can be taken from the unused soil in the Ziploc™ bag, and additional US EPA Method 5035A kits will also be collected at the same time that the primary samples are collected (i.e., prior to compositing).

All samples will be labeled per laboratory specifications while onsite. All samples will be logged on the chain-of-custody form. The US EPA Method 5035 kits for the discrete samples and the jars of the composite sample will be placed into individual self-sealing bags, placed on ice inside of an ice chest, and submitted to the laboratory.

## Concrete Debris Sampling Procedure

Three units contain concrete debris or concrete debris and steel cables embedded in concrete. Samples of crushed concrete debris will be collected from six locations in each unit using the procedure similar to the collection of soil samples. It may be necessary to use a long-handled shovel to scoop up the crushed concrete instead of a hand auger. In the event that insufficient crushed concrete is available for the full analytical suite, larger pieces may be submitted to the laboratory for grinding/crushing as needed or the pieces may be crushed on-site as coordinated through SoCal Gas. The sampling procedure may need to be modified to address access or safety issues. Some laboratory methods may not be able to accommodate crushed concrete as a matrix, so those analyses will be omitted for this material.

## Sludge and Liquid in Units Sampling Procedure

As a result of rain collecting in bins or other units, several units contain soil and sludge with various amounts of standing water. AECOM will arrange to have a vacuum truck remove the standing water (to the extent possible) from each unit. The vacuum truck will transfer the liquid into a tank for temporary storage at the SS-24 work pad area. After the standing water from the last unit is placed in the tank, a sample of the liquid will be collected and analyzed for the same set of parameters as the soil samples. If enough solids remain in the unit, the remaining solids will be sampled in the manner prescribed for soil. Unit/tank sampling procedure may need to be modified due to access or safety issues. Any modifications that are made due to access or safety issues will be tracked and documented.

## Task 3 – Sample Labeling, Handling, and Equipment Decontamination

### Sample Labeling

Each unit has been assigned a unique identification (ID) number by the SoCal Gas staff for inventory and tracking purposes. Sample containers from each unit will be assigned an ID number that corresponds to the unit of origin. The discrete and composite samples will then be identified for the laboratory as D1, D2, D3, and Comp.

Example:

Samples from unit number SF-1531 will be assigned sample ID number SF1531. The three discrete samples from this unit will be called SF1531D1, SF1531D2, SF1531D3, and the composite sample will be called SF1531Comp.

The contents of each unit must weigh no more than 20,000 pounds to comply with California Department of Transportation (DOT) requirements. If a single unit contains material in excess of 20,000 pounds, it will be necessary to divide the contents into two units. Prior to division of the material (such as soil) into two units, samples will have been collected from the single original unit for laboratory analyses. The sample will be assigned the same ID number as the unit number. When the material is divided into two units, each unit will be assigned a unique unit ID number that can be tracked to the original unit.

Example:

Material from unit number SF-1531 is split into two units, then the new units will be assigned unit ID numbers SF-1531.1 (for unit 1) and SF-1531.2 (for unit 2).

Using this unit numbering system, the analytical results for sample SF-1531 can be traced to the contents in units SF-1531.1 and SF-1531.2.

## Field Quality Assurance/Quality Control Sample Identifications

Field quality assurance/quality control (QA/QC) sample codes that may be applied include:

- FD for Field Duplicates,
- EB for Equipment Blanks, and
- TB for Trip Blanks.

Field QA/QC sample codes will be appended to the end of the primary sample ID that is represented by the field QA/QC sample.

The FD sample represents the primary sample that is being duplicated; thus, the FD should be named after the corresponding primary sample.

The EB sample should be named for the sample collected immediately prior to the collection of the EB.

The TB sample represents a group of samples – the TB represents all samples within each ice chest. Thus, the TB should be named after the first sample placed in the ice chest without the designator for discrete or composite samples.

Example:

If the first sample to be placed in an ice chest is SF1601-Comp and an FD is collected from this sample, then an EB sample is collected immediately following the collection of the sample (after decontamination of sampling equipment). The associated field QA/QC samples will be identified as:

Primary sample: SF1601

- SF1601-Comp-FD
- SF1601-Comp-EB
- SF1601-TB. Note: Trip Blank samples will not be designated as D1, D2, D3, or Comp to avoid confusion because they will be analyzed for only VOCs and TPH C<sub>4</sub>-C<sub>12</sub>.

Field QA/QC samples and the frequencies of collection are discussed in Task 5 – Quality Assurance/Quality Control.

## Sample Handling

Each sample container will be marked in the field with the sample ID number, location, date, and time of sample collection. Sample containers will be placed on ice (if appropriate for the requested analysis) inside of an ice chest while awaiting transport to the laboratory. The samples will be surrounded by packaging material to prevent container breakage in transit. A chain-of-custody (COC) record will be prepared at the time of sample collection and will contain sample identification, sample type, analytical request, sampling time and date, and the sampler's name. The COC form will be signed, timed, and dated by the sampler when custody of the samples is transferred from the sampling personnel to the laboratory. The COC record will accompany each package shipped and must accurately describe the contents of the package. A copy of each COC will remain with the Field Manager for inclusion in the project files. The original COC will be shipped to the laboratory with the samples.

The laboratory will provide a courier to transport samples under COC from the site to the laboratory. In the event that a laboratory courier is unavailable, samples will be transported to the laboratory by field personnel or a commercial shipping company.

Upon arrival at the laboratory, all samples will be logged-in by the laboratory following standard laboratory receiving protocol. Laboratory personnel receiving the samples must sign the COC. The laboratory project manager or designee



will provide written notice of receipt, notations of any container breakage, and correlation of laboratory ID number to a field ID for the samples within 24 hours of sample log-in.

The laboratory will immediately notify the sampling team if problems are identified which require immediate resolution upon receipt of the samples. Such problems may include container breakage, missing or improper COC, exceeded holding times, missing or illegible sample labeling, or temperature excursions.

## Equipment Decontamination

All sampling equipment that comes into contact with potentially contaminated soil will be decontaminated consistently after sampling each selected unit to prevent cross-contamination between samples and to assure the quality of the samples collected. Disposable equipment intended for one-time use will not be decontaminated but will be packaged for appropriate disposal. Prior to and after each use, reusable sampling equipment or containers will be properly decontaminated. All drilling (hand auger) and sampling devices used will be decontaminated using the following procedures:

1. After a sample is collected, re-usable sampling equipment will be placed in a bucket and washed with non-phosphate detergent and tap-water wash, using a brush if necessary. The wash water will be contained within the first bucket. If the wash water becomes heavily laden with soil particles, the bucket of wash water will be emptied into a DOT-approved drum or tank for temporary storage onsite. The bucket will be refilled with fresh tap water and detergent for continued equipment washing.
2. First rinse: the equipment will then be placed in a second bucket and undergo an initial rinse using deionized (DI) or distilled water. The rinse water will be contained within the second bucket.
3. Final rinse: the equipment will be placed into a third bucket and undergo a second rinse using DI or distilled water. The final rinse water will be contained within the third bucket.
4. The equipment will then be set on clean, plastic sheeting to air-dry.

Equipment will be decontaminated in a pre-designated area on pallets or plastic sheeting, and clean bulky equipment will be stored on plastic sheeting in an uncontaminated area. Each bucket will be clearly labeled with its contents. When not in use, decontaminated sampling equipment will be wrapped in, or covered, with clean plastic.

## Task 4 - Sample Analysis

Samples from each unit will be analyzed as follows;

- A. Discrete samples will be collected in accordance with US EPA Method 5035A for the following analyses:
  1. VOCs by US EPA Method 8260B, and
  2. TPH C<sub>4</sub>-C<sub>12</sub> by US EPA Method 8015B.
- B. Composite samples will be collected and analyzed for the following:
  1. Semivolatile Organic Compounds (SVOCs) by US EPA Method 8270C,
  2. TPH C<sub>13</sub>-C<sub>40</sub> by US EPA Method 8015B,
  3. Polynuclear Aromatic Hydrocarbons (PAHs) by US EPA Method 8270SIM,
  4. Polychlorinated Biphenyls (PCBs) by US EPA Method 8082A,
  5. Title 22 Metals (Metals) by US EPA Methods 6010B/7471A,
  6. Soluble Threshold Limit Concentration (STLC) per Title 22 Appendix II, and Toxicity characteristic leaching procedure (TCLP) by US EPA Method 1311,
  7. Chromium, Hexavalent (Cr VI) by US EPA Method 7199,
  8. pH by US EPA Method 9045,
  9. Flash Point by US EPA Method 1010,
  10. Reactive Cyanide by US EPA Method 9014,

11. Reactive Sulfide by US EPA Method 9030B, and
12. Fish Bioassay for Hazardous Waste Determination by Title 22<sup>1</sup>.

TCLP and STLC analyses will be conducted concurrently with Total Threshold Limit Concentration (TTLC) testing. A summary table of samples and analyses is provided in **Attachment 3**.

## Task 5 - Quality Assurance/Quality Control

There is potential variability in any sample collection, analysis, or measurement activity. QC activities are those technical activities routinely performed, not to eliminate or minimize errors, but to assess/demonstrate reliability and confidence in the measurement data generated. Field QA/QC samples that will be collected during the unit sampling include field duplicates (FDs), equipment blanks (EBs), and trip blanks (TBs).

### Field Duplicate Samples

The FD is a replicate sample collected as close as possible to the same time that the primary sample is collected and from the same location, depth, or source, and is used to evaluate sampling and analytical precision (reproducibility). FDs will be collected by alternately filling two sets of identical sample containers from the interim container used to collect the sample. Agreement between primary and duplicate sample results will indicate good sampling and analytical precision. The precision goal for field duplicate results will be plus or minus 100 percent (%) relative percent difference (RPD) as compared to the primary results. If the RPD between the primary and duplicate field samples exceeds 100% for sample concentrations greater than five times the reporting limit, the data will be qualified as described in the applicable data validation procedure. FD samples will be collected at a minimum frequency of 20% of primary samples collected (two field duplicate samples for every 10 primary samples collected).

### Equipment Blank Samples

EB samples are used to assess the effectiveness of equipment decontamination procedures. EB samples are obtained by filling, immersing, or rinsing decontaminated sampling equipment with reagent-grade DI water, sampling this water, and submitting the sample for analysis. Alternatively, DI water can be poured over or through the decontaminated sampling equipment and then collected and submitted for analysis. EBs will be collected at a frequency of one per day per sampling crew and will be analyzed for the same suite of parameters as the primary sample to assess the effectiveness of the decontamination procedures.

### Trip Blank Samples

TB samples are used to assess the potential for cross-contamination of VOCs and TPH C<sub>4</sub>-C<sub>12</sub> between samples during temporary storage and shipment to the laboratory. TB samples are only necessary when materials (soil, water, concrete, sludge) are being analyzed for VOCs and TPH C<sub>4</sub>-C<sub>12</sub>. A TB sample consists of one or more sample containers that are prepared at the analytical laboratory by filling containers with reagent-grade DI water. The TB sample is added to the sample ice chest or other shipping container as soon as the first primary sample is collected. The TB sample accompanies the primary samples to the laboratory and is analyzed using the same analytical method as the primary samples. One TB sample will accompany every ice chest on every day of sampling.

## Task 6 - Investigation-Derived Waste Handling

Investigation-derived waste (IDW) generated from sampling activities will consist of liquid IDW (wash water and rinse water) from equipment decontamination activities. Liquid IDW will be placed into a DOT-approved drum or tank and temporarily stored onsite for eventual disposal by SoCal Gas. Any excess generated solid IDW (e.g., soil, concrete debris, sludge) that will not be sent to the laboratory will be placed back into the respective unit. IDW such as used PPE (gloves), paper towels, used plastic sheeting, etc. will be double bagged in plastic trash bags and disposed by SoCal Gas.

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<sup>1</sup> Polisini and Miller, 1988, *Static Acute Bioassay Procedures for Hazardous Waste Samples*, California Department of Fish and Game

## Task 7 – Submittal of Reports to SoCalGas

As the laboratory reports are received by AECOM, the data will undergo data validation (Level II QC). Upon AECOM's receipt of each final laboratory report and completion of data validation activities, the results of the sampling and analyses will be summarized and provided to SoCal Gas. The report will include the following:

- Project background and summary of work performed;
- Field procedures and any variances encountered;
- Figures identifying the sample locations;
- Presentation of field observations and analytical results including analytical laboratory reports;
- Data validation memorandum of the analytical reports; and
- The comparison of the sample concentrations to established regulatory agency action levels.

# Attachment 1

## List of Units

Unit Number	Approximate Start Date	Description of Contents	Number of Units in This Category	Number of Units to Sample (20% minimum)	Randomly Selected Units to Sample
TK-130	11/13/2015	SS-25 resurfaced well control fluids	1	1	TK-130
SF1531	12/4/2015	Soil and Debris from SS-25	21	5	SF1531
SF1601	12/4/2015	Soil and Debris from SS-25			
SF1602	12/4/2015	Soil and Debris from SS-25			
SF1510	12/9/2015	Soil and Debris from SS-25			
SF1519	12/9/2015	Soil and Debris from SS-25			
SF1525	12/9/2015	Soil and Debris from SS-25			
20156	12/10/2015	Soil and Debris from SS-25			
20167	12/10/2015	Soil and Debris from SS-25			
SF 1535	12/10/2015	Soil and Debris from SS-25			
SF1515	12/10/2015	Soil and Debris from SS-25			
SF1528	12/10/2015	Soil and Debris from SS-25			
SF1533	12/10/2015	Soil and Debris from SS-25			
SF1604	12/10/2015	Soil and Debris from SS-25			
SF1513	12/11/2015	Soil and Debris from SS-25			
SF1611	12/11/2015	Soil and Debris from SS-25			
SF767	12/11/2015	Soil and Debris from SS-25			
PT1850	12/12/2015	Soil and Debris from SS-25			
PT3010	12/12/2015	Soil and Debris from SS-25			
PT3138	12/12/2015	Soil and Debris from SS-25			
PT3672	12/12/2015	Soil and Debris from SS-25			
PT4337	12/12/2015	Soil and Debris from SS-25			
54	12/15/2015	Soil from V ditches	19	4	PT3010
DR17	12/15/2015	Soil from V ditches			
DR9	12/15/2015	Soil from V ditches			
PT1084	12/15/2015	Soil from V ditches			
PT1109	12/15/2015	Soil from V ditches			
PT1129	12/15/2015	Soil from V ditches			
PT1414	12/15/2015	Soil from V ditches			
PT1419	12/15/2015	Soil from V ditches			
PT2454	12/15/2015	Soil from V ditches			
PT2806	12/15/2015	Soil from V ditches			

Unit Number	Approximate Start Date	Description of Contents	Number of Units in This Category	Number of Units to Sample (20% minimum)	Randomly Selected Units to Sample
PT2973	12/15/2015	Soil from V ditches			
PT3153	12/15/2015	Soil from V ditches			
PT3350	12/15/2015	Soil from V ditches			
PT3899	12/15/2015	Soil from V ditches			
PT4032	12/15/2015	Soil from V ditches			
PT4033	12/15/2015	Soil from V ditches			PT4033
PT4066	12/15/2015	Soil from V ditches			
PT4098	12/15/2015	Soil from V ditches			
PT4459	12/15/2015	Soil from V ditches			
R765	12/15/2015	Non SS-25 Debris from 39A Relief Pad			
R769	12/15/2015	Non SS-25 Debris from 39A Relief Pad			
SF 1608	12/15/2015	Non SS-25 Debris from 39A Relief Pad	4	1	SF 1608
SF1534	12/15/2015	Non SS-25 Debris from 39A Relief Pad			
R-20-17	1/15/2016	Debris from Decon			
R-20-77	3/10/2016	Debris from Decon	2	1	R-20-77
B16091	3/15/2016	Soil and stone			
B16115	3/15/2016	Soil and stone	2	1	B16091
DHVT#11	5/7/2016	25A/25B Celler/Pipe Trench Sludge			
V23602	5/7/2016	25A/25B Celler/Pipe Trench Sludge	3	1	V23602
VB27599	5/7/2016	25A/25B Celler/Pipe Trench Sludge			
SF1530	5/7/2016	25A/25B Celler/Pipe Trench Solids	1	1	SF1530
2021	5/14/2016	Crater Soils from Slab Removal Overdig			
20121	5/14/2016	Crater Soils from Slab Removal Overdig			
20168	5/14/2016	Crater Soils from Slab Removal Overdig			
20175	5/14/2016	Crater Soils from Slab Removal Overdig			
20192	5/14/2016	Crater Soils from Slab Removal Overdig			
20193	5/14/2016	Crater Soils from Slab Removal Overdig	10	2	20193
SF1502	5/14/2016	Crater Soils from Slab Removal Overdig			
SF1514	5/14/2016	Crater Soils from Slab Removal Overdig			
SF1600	5/14/2016	Crater Soils from Slab Removal Overdig			SF1600
SF763	5/14/2016	Crater Soils from Slab Removal Overdig			
SF764	5/14/2016	Concrete - Broken up slab from SS-25 Crater	1	1	SF764

Unit Number	Approximate Start Date	Description of Contents	Number of Units in This Category	Number of Units to Sample (20% minimum)	Randomly Selected Units to Sample
VB25833	5/20/2016	Liquid from SS-25 Crater. 2" needs to be washed out	1	1	VB25833
2017	6/8/2016	8" Flex Hose	1	1	2017
2040	6/9/2016	Supersacks/Sandbags from SS-25 Crater and Asphalt Surface	1	1	2040
DB30001VB	6/9/2016	SS-25 Pipe Trench Sludge	3	1	DB3000VB
DB3000VB	6/9/2016	SS-25 Pipe Trench Sludge			
V881	6/9/2016	SS-25 Pipe Trench Sludge			
2078	6/13/2016	Super Sacks/Sand/Plastic from SS-25	1	1	2078
CT1106	6/13/2016	SS-25 Crater Sludge	4	1	CT814
CT814	6/13/2016	SS-25 Crater Sludge			
CT817	6/13/2016	SS-25 Crater Sludge			
CT824	6/13/2016	SS-25 Crater Sludge			
PT1312	6/15/2016	Bridge cushions	2	1	PT2948
PT2948	6/15/2016	Bridge cushions			
V327	6/17/2016	SS-25 Earthen Sludge Outside Pipe Trench	2	1	V327
V509	6/17/2016	SS-25 Earthen Sludge Outside Pipe Trench			
T235	6/20/2016	SS-25 Pipe Trench Concrete	2	1	T235
T245	6/20/2016	SS-25 Pipe Trench Concrete			
20159	6/21/2016	Concrete and soil from 25B South Slab Removal	1	1	20159
2031	6/27/2016	Soil/Debris/Sandbags From SS-25 Site Cleanup	2	1	2031
20209	6/27/2016	Soil/Debris/Sandbags From SS-25 Site Cleanup			
20203	6/29/2016	Concrete The South Side Of The Crater/Misc Pipe	1	1	20203
2036	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			2036
2038	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
2040	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
2041	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20108	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20111	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20125	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20174	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20198	6/28/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20208	6/29/2016	Soils less than 50 PPM VOC from SS-25 Crater			
493642	6/29/2016	Soils less than 50 PPM VOC from SS-25 Crater			

Unit Number	Approximate Start Date	Description of Contents	Number of Units in This Category	Number of Units to Sample (20% minimum)	Randomly Selected Units to Sample
2003	6/30/2016	Soils less than 50 PPM VOC from SS-25 Crater	34	7	
2014	6/30/2016	Soils less than 50 PPM VOC from SS-25 Crater			
2080	6/30/2016	Soils less than 50 PPM VOC from SS-25 Crater			2080
20214	6/30/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20215	6/30/2016	Soils less than 50 PPM VOC from SS-25 Crater			
66702	6/30/2016	Soils less than 50 PPM VOC from SS-25 Crater			
2098	7/1/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20107	7/1/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20142	7/1/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20176	7/1/2016	Soils less than 50 PPM VOC from SS-25 Crater			20176
20206	7/1/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20219	7/1/2016	Soils less than 50 PPM VOC from SS-25 Crater			20219
SF1507	7/1/2016	Soils less than 50 PPM VOC from SS-25 Crater			
2057	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20115	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20118	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20178	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
158804 - 20224	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
158806 - 20223	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
158808 - 20222	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
SF1610	7/2/2016	Soils less than 50 PPM VOC from SS-25 Crater			
2085	7/19/2016	Soils less than 50 PPM VOC from SS-25 Crater			
20110	7/19/2016	Soils less than 50 PPM VOC from SS-25 Crater			
2035	7/12/2016	Slope soil			
2090	7/12/2016	Slope soil	2	1	2090
20130	7/12/2016	Super Sacks and Steel Cables	1	1	20130
20138	7/12/2016	Super Sacks, pallets, and debris	1	1	20138
20182	7/12/2016	Concrete washout/Super Sacks	1	1	20182
20146	6/27/2016	Surface Soils from SS-25 Cleanup			
2001	7/23/2016	Surface Soils from SS-25 Cleanup			
2019	7/23/2016	Surface Soils from SS-25 Cleanup			
2050	7/23/2016	Surface Soils from SS-25 Cleanup			2050



Unit Number	Approximate Start Date	Description of Contents	Number of Units in This Category	Number of Units to Sample (20% minimum)	Randomly Selected Units to Sample
2054	7/23/2016	Surface Soils from SS-25 Cleanup	11	3	
2083	7/23/2016	Surface Soils from SS-25 Cleanup			
20126	7/23/2016	Surface Soils from SS-25 Cleanup			
20158	7/23/2016	Surface Soils from SS-25 Cleanup			20158
20169	7/23/2016	Surface Soils from SS-25 Cleanup			
20194	7/23/2016	Surface Soils from SS-25 Cleanup			
NRC3551	7/23/2016	Surface Soils from SS-25 Cleanup			NRC3551
SF1521	7/23/2016	Concrete and Cables	1	1	SF1521
SF1504	10/5/2016	South Slope Evidence Soils (6")	6	2	
SF1506	10/5/2016	South Slope Evidence Soils (6")			
SF1511	10/5/2016	South Slope Evidence Soils (6")			SF1511
SF1512	10/5/2016	South Slope Evidence Soils (6")			
SF1518	10/5/2016	South Slope Evidence Soils (6")			SF1518
SF1606	10/5/2016	South Slope Evidence Soils (6")			
2033	10/6/2016	North Slope soils less than 50 VOC	8	2	
20240	10/6/2016	North Slope soils less than 50 VOC			
20250	10/6/2016	North Slope soils less than 50 VOC			
20268	10/6/2016	North Slope soils less than 50 VOC			
2015	10/8/2016	North Slope soils less than 50 VOC			
20147	10/8/2016	North Slope soils less than 50 VOC			
20233	10/8/2016	North Slope soils less than 50 VOC			20233
20272	10/8/2016	North Slope soils less than 50 VOC			20272

The above unit numbers and content descriptions are provided by SoCalGas.

The descriptions are based on generator knowledge.

They define groups of "like" materials for the purpose of waste categorization.

AECOM has reviewed all of the bin contents described above and based on its observations, AECOM has not identified any dissimilar material that requires recategorization.

Name

Date

The above named person is a duly authorized representative of SoCalGas.

**Attachment 2**  
**Systematic Stratified Grid**

Attachment 2 - Systematic Stratified Grid

	S														S				
		D													D				
						D													
					S														

S = Shallow Sample (0.5 to 1 foot below surface)

D = Deeper Sample (less than 3 feet above bottom of bin)

**Attachment 3**  
**Summary of Laboratory Analyses**

**Table 1  
Summary of Laboratory Analyses**

<b>Sample Type</b>	<b>Analytes</b>	<b>EPA Method (for soils and other materials)</b>
<b>Discrete Samples</b>	Volatile Organic Compounds (VOCs)	EPA Method 8260B
	Total Petroleum Hydrocarbons (TPH C <sub>4</sub> -C <sub>12</sub> )	EPA Method 8015B
<b>Composite Samples</b>	Semivolatile Organic Compounds (SVOCs)	EPA Method 8270C
	Total Petroleum Hydrocarbons (TPH C <sub>13</sub> -C <sub>40</sub> )	EPA Method 8015B
	Polycyclic Aromatic Hydrocarbons (PAHs)	EPA Method 8270SIM
	Polychlorinated Biphenyls (PCBs)	EPA Method 8082A
	Title 22 Metals (Metals)	EPA Method 6010B (Mercury by 7471A)
	STLC	Title 22 Appendix II
	TCLP	EPA Method 1311
	Chromium, Hexavalent (Cr VI)	EPA Method 7199
	pH	EPA Method 9045
	Flash Point	EPA Method 1010
	Reactive Cyanide	EPA Method 9014
	Reactive Sulfide	EPA Method 9030B
	Fish Bioassay for Hazardous Waste Determination	Title 22 (Polisini and Miller, 1988)

## APPENDIX B

### Laboratory Report – Eurofins Calscience



## ANALYTICAL REPORT

Eurofins Calscience LLC  
7440 Lincoln Way  
Garden Grove, CA 92841  
Tel: (714)895-5494

Laboratory Job ID: 570-42384-1  
Client Project/Site: SoCal Gas, Project # 11561.015  
Revision: 1

For:  
Leighton Consulting Inc  
17781 Cowan  
Suite 200  
Irvine, California 92614

Attn: Meredith Church



Authorized for release by:  
5/21/2021 12:04:43 PM

Xuan Dang, Project Manager I  
(714)895-5494  
[Xuan.Dang@eurofinset.com](mailto:Xuan.Dang@eurofinset.com)

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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Definitions/Glossary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
me	LCS Recovery is within Marginal Exceedance (ME) control limit range ( $\pm 4$ SD from the mean).

### GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

### GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
$\alpha$	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Eurofins Calscience LLC

# Definitions/Glossary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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# Case Narrative

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Job ID: 570-42384-1**

**Laboratory: Eurofins Calscience LLC**

## Narrative

**Job Narrative  
570-42384-1**

### Comments

No additional comments.

### Revision

The report being provided is a revision of the original report sent on 11/13/2020. The report (revision 1) is being revised due to:  
- Carbon group C29-C44 (TPH as Motor Oil) is included for all solid samples.  
- All data are reported to the MDL per client's request on 5/17/2021.

### Receipt

The samples were received on 10/29/2020 12:55 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0° C, 2.2° C, 2.2° C and 3.0° C.

### Receipt Exceptions

3 of 12 vials(TPH-GRO) for the following sample received empty: TK130-M (570-42384-1). Client requested 6 of the 12 vials to be placed on hold for further analysis. Due to the 3 empty vials received, there are now only 3 vials placed on hold for further analysis.

### GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The instrument raw data has been manually reviewed and the result can be reported as ND.

Method 6010B: The absolute response for Cobalt was greater than the method reporting limit (RL) in the following samples:  
DB3000VB-1-1.5 (570-42384-4) and DB3000VB-1-1.5D (570-42384-5).

The instrument raw data has been manually reviewed and the result can be reported as ND.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-108557 and analytical batch 570-108725 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: Due to the high concentration of Aluminum, Calcium, Iron, Magnesium, Manganese, Silicon, Phosphorus and Titanium the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-108557 and analytical batch 570-108725 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6010B: The absolute response for Thallium was greater than the method reporting limit (RL) in the following samples:  
DB30001VB-1-1.5 (570-42384-3) and V509-1-0.5 (570-42384-10).

The instrument raw data has been manually reviewed and the result can be reported as ND.

# Case Narrative

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

---

## Job ID: 570-42384-1 (Continued)

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### Laboratory: Eurofins Calscience LLC (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: TK130-M**

**Lab Sample ID: 570-42384-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.3		1.0	0.34	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.69	J	1.0	0.34	ug/L	1		8260B	Total/NA
Naphthalene	5.0	J	10	5.0	ug/L	1		8260B	Total/NA
Gasoline Range Organics (C4-C12)	160		50	30	ug/L	1		8015B	Total/NA
C9-C10	27	J	48	21	ug/L	1		8015B	Total/NA
C11-C12	140		48	21	ug/L	1		8015B	Total/NA
C13-C14	220		48	21	ug/L	1		8015B	Total/NA
C15-C16	260		48	21	ug/L	1		8015B	Total/NA
C17-C18	260		48	21	ug/L	1		8015B	Total/NA
C19-C20	240		48	21	ug/L	1		8015B	Total/NA
C21-C22	290		48	21	ug/L	1		8015B	Total/NA
C23-C24	990		48	21	ug/L	1		8015B	Total/NA
C25-C28	3500		48	21	ug/L	1		8015B	Total/NA
C29-C32	3300		48	21	ug/L	1		8015B	Total/NA
C33-C36	1800		48	21	ug/L	1		8015B	Total/NA
C37-C40	550		48	21	ug/L	1		8015B	Total/NA
C41-C44	190		48	21	ug/L	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	6000		48	21	ug/L	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	5900		48	21	ug/L	1		8015B	Total/NA
C6-C44 - DL	17000		240	110	ug/L	5		8015B	Total/NA
Aluminum	0.208	J	0.500	0.193	mg/L	1		6010B	Total/NA
Barium	9.47		0.0100	0.00308	mg/L	1		6010B	Total/NA
Cadmium	0.00554	J	0.0100	0.00210	mg/L	1		6010B	Total/NA
Chromium	0.0249	J	0.0500	0.00688	mg/L	1		6010B	Total/NA
Copper	0.0170	J	0.0500	0.00614	mg/L	1		6010B	Total/NA
Lead	0.0147	J	0.0500	0.00821	mg/L	1		6010B	Total/NA
Nickel	0.0142	J	0.0500	0.00784	mg/L	1		6010B	Total/NA
Boron	1.83		0.500	0.133	mg/L	1		6010B	Total/NA
Thallium	0.0583		0.0500	0.0161	mg/L	1		6010B	Total/NA
Vanadium	0.0127		0.0100	0.00297	mg/L	1		6010B	Total/NA
Calcium	6910		40.0	9.18	mg/L	20		6010B	Total/NA
Iron	7.12		0.500	0.123	mg/L	1		6010B	Total/NA
Magnesium	202		0.500	0.0493	mg/L	1		6010B	Total/NA
Manganese	12.0		0.0500	0.00405	mg/L	1		6010B	Total/NA
Phosphorus	0.228	J	0.250	0.0756	mg/L	1		6010B	Total/NA
Potassium	1640		40.0	4.81	mg/L	20		6010B	Total/NA
Silicon	12.9		0.250	0.0947	mg/L	1		6010B	Total/NA
Sodium	913		40.0	22.3	mg/L	20		6010B	Total/NA
Strontium	111		1.00	0.324	mg/L	100		6010B	Total/NA

**Client Sample ID: V23602-1-1.5**

**Lab Sample ID: 570-42384-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	13000		410	120	ug/Kg	250		8260B	Total/NA
1,3,5-Trimethylbenzene	5000		410	120	ug/Kg	250		8260B	Total/NA
Benzene	360		210	53	ug/Kg	250		8260B	Total/NA
Cyclohexane	910	J	4100	760	ug/Kg	250		8260B	Total/NA
Ethylbenzene	1900		210	43	ug/Kg	250		8260B	Total/NA
Isopropylbenzene	650		210	120	ug/Kg	250		8260B	Total/NA
m,p-Xylene	11000		410	98	ug/Kg	250		8260B	Total/NA
Naphthalene	38000		2100	1100	ug/Kg	250		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: V23602-1-1.5 (Continued)**

**Lab Sample ID: 570-42384-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	2200		210	44	ug/Kg	250		8260B	Total/NA
N-Propylbenzene	1500		410	120	ug/Kg	250		8260B	Total/NA
o-Xylene	4500		210	120	ug/Kg	250		8260B	Total/NA
p-Isopropyltoluene	1200		210	140	ug/Kg	250		8260B	Total/NA
sec-Butylbenzene	610		210	120	ug/Kg	250		8260B	Total/NA
Toluene	1500		210	120	ug/Kg	250		8260B	Total/NA
Xylenes, Total	16000		620	150	ug/Kg	250		8260B	Total/NA
Gasoline Range Organics (C4-C12)	270		17	9.2	mg/Kg	200		8015B	Total/NA
C9-C10	12		4.9	3.8	mg/Kg	1		8015B	Total/NA
C11-C12	41		4.9	3.8	mg/Kg	1		8015B	Total/NA
C13-C14	49		4.9	3.8	mg/Kg	1		8015B	Total/NA
C15-C16	34		4.9	3.8	mg/Kg	1		8015B	Total/NA
C17-C18	39		4.9	3.8	mg/Kg	1		8015B	Total/NA
C19-C20	32		4.9	3.8	mg/Kg	1		8015B	Total/NA
C21-C22	16		4.9	3.8	mg/Kg	1		8015B	Total/NA
C23-C24	7.1		4.9	3.8	mg/Kg	1		8015B	Total/NA
C25-C28	11		4.9	3.8	mg/Kg	1		8015B	Total/NA
C29-C32	8.8		4.9	3.8	mg/Kg	1		8015B	Total/NA
C33-C36	4.5	J	4.9	3.8	mg/Kg	1		8015B	Total/NA
C6-C44	260		4.9	3.8	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	240		4.9	3.8	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	15		4.9	3.8	mg/Kg	1		8015B	Total/NA
Aluminum	4070	B	2.46	0.353	mg/Kg	1		6010B	Total/NA
Arsenic	6.53		0.739	0.255	mg/Kg	1		6010B	Total/NA
Barium	3170		0.493	0.152	mg/Kg	1		6010B	Total/NA
Beryllium	0.737		0.246	0.135	mg/Kg	1		6010B	Total/NA
Boron	9.15	B	1.97	0.442	mg/Kg	1		6010B	Total/NA
Cadmium	4.67		0.493	0.133	mg/Kg	1		6010B	Total/NA
Calcium	14700		4.93	0.375	mg/Kg	1		6010B	Total/NA
Chromium	16.3		0.246	0.140	mg/Kg	1		6010B	Total/NA
Cobalt	0.798		0.246	0.146	mg/Kg	1		6010B	Total/NA
Copper	26.7		0.493	0.133	mg/Kg	1		6010B	Total/NA
Iron	11600	B	4.93	0.131	mg/Kg	1		6010B	Total/NA
Lead	9.95		0.493	0.130	mg/Kg	1		6010B	Total/NA
Magnesium	2060		4.93	0.167	mg/Kg	1		6010B	Total/NA
Manganese	141		0.246	0.137	mg/Kg	1		6010B	Total/NA
Molybdenum	8.85		0.246	0.130	mg/Kg	1		6010B	Total/NA
Nickel	42.8		0.246	0.143	mg/Kg	1		6010B	Total/NA
Phosphorus	1030	B	4.93	0.246	mg/Kg	1		6010B	Total/NA
Potassium	2740	B	24.6	1.72	mg/Kg	1		6010B	Total/NA
Silicon	197		4.93	1.30	mg/Kg	1		6010B	Total/NA
Sodium	542		24.6	1.79	mg/Kg	1		6010B	Total/NA
Strontium	218		7.39	0.680	mg/Kg	5		6010B	Total/NA
Titanium	217		1.48	0.136	mg/Kg	1		6010B	Total/NA
Vanadium	66.7		0.246	0.139	mg/Kg	1		6010B	Total/NA
Zinc	162		0.985	0.175	mg/Kg	1		6010B	Total/NA
Mercury	0.150		0.0847	0.0137	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: DB30001VB-1-1.5**

**Lab Sample ID: 570-42384-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5800		240	71	ug/Kg	200		8260B	Total/NA
1,3,5-Trimethylbenzene	2200		240	71	ug/Kg	200		8260B	Total/NA
Benzene	180		120	30	ug/Kg	200		8260B	Total/NA
Ethylbenzene	850		120	24	ug/Kg	200		8260B	Total/NA
Isopropylbenzene	290		120	71	ug/Kg	200		8260B	Total/NA
m,p-Xylene	1500		240	56	ug/Kg	200		8260B	Total/NA
Naphthalene	20000		1200	620	ug/Kg	200		8260B	Total/NA
n-Butylbenzene	950		120	25	ug/Kg	200		8260B	Total/NA
N-Propylbenzene	650		240	71	ug/Kg	200		8260B	Total/NA
o-Xylene	380		120	71	ug/Kg	200		8260B	Total/NA
p-Isopropyltoluene	480		120	83	ug/Kg	200		8260B	Total/NA
sec-Butylbenzene	250		120	71	ug/Kg	200		8260B	Total/NA
Xylenes, Total	1900		350	83	ug/Kg	200		8260B	Total/NA
Gasoline Range Organics (C4-C12)	290		12	6.6	mg/Kg	200		8015B	Total/NA
C9-C10	24		4.9	3.8	mg/Kg	1		8015B	Total/NA
C11-C12	83		4.9	3.8	mg/Kg	1		8015B	Total/NA
C13-C14	110		4.9	3.8	mg/Kg	1		8015B	Total/NA
C15-C16	80		4.9	3.8	mg/Kg	1		8015B	Total/NA
C17-C18	93		4.9	3.8	mg/Kg	1		8015B	Total/NA
C19-C20	77		4.9	3.8	mg/Kg	1		8015B	Total/NA
C21-C22	39		4.9	3.8	mg/Kg	1		8015B	Total/NA
C23-C24	17		4.9	3.8	mg/Kg	1		8015B	Total/NA
C25-C28	28		4.9	3.8	mg/Kg	1		8015B	Total/NA
C29-C32	24		4.9	3.8	mg/Kg	1		8015B	Total/NA
C33-C36	14		4.9	3.8	mg/Kg	1		8015B	Total/NA
C37-C40	6.6		4.9	3.8	mg/Kg	1		8015B	Total/NA
C6-C44	590		4.9	3.8	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	540		4.9	3.8	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	46		4.9	3.8	mg/Kg	1		8015B	Total/NA
Aluminum	3280	B	2.42	0.346	mg/Kg	1		6010B	Total/NA
Arsenic	5.38		0.725	0.250	mg/Kg	1		6010B	Total/NA
Barium	2930		0.483	0.149	mg/Kg	1		6010B	Total/NA
Beryllium	0.615		0.242	0.132	mg/Kg	1		6010B	Total/NA
Boron	5.67	B	1.93	0.434	mg/Kg	1		6010B	Total/NA
Cadmium	3.93		0.483	0.130	mg/Kg	1		6010B	Total/NA
Calcium	10100		4.83	0.368	mg/Kg	1		6010B	Total/NA
Chromium	14.2		0.242	0.137	mg/Kg	1		6010B	Total/NA
Cobalt	0.468		0.242	0.143	mg/Kg	1		6010B	Total/NA
Copper	24.9		0.483	0.130	mg/Kg	1		6010B	Total/NA
Iron	9440	B	4.83	0.129	mg/Kg	1		6010B	Total/NA
Lead	4.98		0.483	0.128	mg/Kg	1		6010B	Total/NA
Magnesium	1710		4.83	0.163	mg/Kg	1		6010B	Total/NA
Manganese	124		0.242	0.134	mg/Kg	1		6010B	Total/NA
Molybdenum	7.18		0.242	0.128	mg/Kg	1		6010B	Total/NA
Nickel	36.9		0.242	0.140	mg/Kg	1		6010B	Total/NA
Phosphorus	903	B	4.83	0.242	mg/Kg	1		6010B	Total/NA
Potassium	1950	B	24.2	1.69	mg/Kg	1		6010B	Total/NA
Silicon	165		4.83	1.28	mg/Kg	1		6010B	Total/NA
Sodium	417		24.2	1.76	mg/Kg	1		6010B	Total/NA
Strontium	120		1.45	0.133	mg/Kg	1		6010B	Total/NA
Titanium	194		1.45	0.133	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: DB30001VB-1-1.5 (Continued)

## Lab Sample ID: 570-42384-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	56.4		0.242	0.136	mg/Kg	1		6010B	Total/NA
Zinc	121		0.966	0.172	mg/Kg	1		6010B	Total/NA
Mercury	0.0563	J	0.0806	0.0131	mg/Kg	1		7471A	Total/NA

## Client Sample ID: DB3000VB-1-1.5

## Lab Sample ID: 570-42384-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	23000		1000	310	ug/Kg	500		8260B	Total/NA
1,3,5-Trimethylbenzene	8900		1000	310	ug/Kg	500		8260B	Total/NA
Benzene	370	J	520	130	ug/Kg	500		8260B	Total/NA
Ethylbenzene	2500		520	110	ug/Kg	500		8260B	Total/NA
Isopropylbenzene	1000		520	310	ug/Kg	500		8260B	Total/NA
m,p-Xylene	4200		1000	240	ug/Kg	500		8260B	Total/NA
Naphthalene	62000		5200	2700	ug/Kg	500		8260B	Total/NA
n-Butylbenzene	4600		520	110	ug/Kg	500		8260B	Total/NA
N-Propylbenzene	2400		1000	310	ug/Kg	500		8260B	Total/NA
o-Xylene	5000		520	310	ug/Kg	500		8260B	Total/NA
p-Isopropyltoluene	2400		520	360	ug/Kg	500		8260B	Total/NA
sec-Butylbenzene	1200		520	310	ug/Kg	500		8260B	Total/NA
Xylenes, Total	9200		1500	360	ug/Kg	500		8260B	Total/NA
Gasoline Range Organics (C4-C12)	410		21	11	mg/Kg	200		8015B	Total/NA
C9-C10	47		4.9	3.8	mg/Kg	1		8015B	Total/NA
C11-C12	160		4.9	3.8	mg/Kg	1		8015B	Total/NA
C13-C14	200		4.9	3.8	mg/Kg	1		8015B	Total/NA
C15-C16	150		4.9	3.8	mg/Kg	1		8015B	Total/NA
C17-C18	170		4.9	3.8	mg/Kg	1		8015B	Total/NA
C19-C20	140		4.9	3.8	mg/Kg	1		8015B	Total/NA
C21-C22	73		4.9	3.8	mg/Kg	1		8015B	Total/NA
C23-C24	35		4.9	3.8	mg/Kg	1		8015B	Total/NA
C25-C28	58		4.9	3.8	mg/Kg	1		8015B	Total/NA
C29-C32	52		4.9	3.8	mg/Kg	1		8015B	Total/NA
C33-C36	32		4.9	3.8	mg/Kg	1		8015B	Total/NA
C37-C40	16		4.9	3.8	mg/Kg	1		8015B	Total/NA
C6-C44	1100		4.9	3.8	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	1000		4.9	3.8	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	100		4.9	3.8	mg/Kg	1		8015B	Total/NA
Aluminum	3850	B	2.51	0.360	mg/Kg	1		6010B	Total/NA
Arsenic	6.36		0.754	0.260	mg/Kg	1		6010B	Total/NA
Barium	4420		0.503	0.155	mg/Kg	1		6010B	Total/NA
Beryllium	0.719		0.251	0.138	mg/Kg	1		6010B	Total/NA
Boron	11.4	B	2.01	0.451	mg/Kg	1		6010B	Total/NA
Cadmium	4.67		0.503	0.136	mg/Kg	1		6010B	Total/NA
Calcium	12100		5.03	0.383	mg/Kg	1		6010B	Total/NA
Chromium	16.1		0.251	0.143	mg/Kg	1		6010B	Total/NA
Copper	24.7		0.503	0.136	mg/Kg	1		6010B	Total/NA
Iron	11000	B	5.03	0.134	mg/Kg	1		6010B	Total/NA
Lead	6.09		0.503	0.133	mg/Kg	1		6010B	Total/NA
Magnesium	2650		5.03	0.170	mg/Kg	1		6010B	Total/NA
Manganese	191		0.251	0.140	mg/Kg	1		6010B	Total/NA
Molybdenum	9.32		0.251	0.133	mg/Kg	1		6010B	Total/NA
Nickel	43.0		0.251	0.146	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: DB3000VB-1-1.5 (Continued)

## Lab Sample ID: 570-42384-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus	981	B	5.03	0.251	mg/Kg	1		6010B	Total/NA
Potassium	2600	B	25.1	1.76	mg/Kg	1		6010B	Total/NA
Silicon	218		5.03	1.33	mg/Kg	1		6010B	Total/NA
Sodium	449		25.1	1.83	mg/Kg	1		6010B	Total/NA
Strontium	162		7.54	0.693	mg/Kg	5		6010B	Total/NA
Titanium	241		1.51	0.139	mg/Kg	1		6010B	Total/NA
Vanadium	67.5		0.251	0.142	mg/Kg	1		6010B	Total/NA
Zinc	177		1.01	0.179	mg/Kg	1		6010B	Total/NA
Mercury	0.0342	J	0.0833	0.0135	mg/Kg	1		7471A	Total/NA

## Client Sample ID: DB3000VB-1-1.5D

## Lab Sample ID: 570-42384-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	15000		490	150	ug/Kg	250		8260B	Total/NA
1,3,5-Trimethylbenzene	5900		490	150	ug/Kg	250		8260B	Total/NA
Benzene	240	J	250	63	ug/Kg	250		8260B	Total/NA
Ethylbenzene	1700		250	51	ug/Kg	250		8260B	Total/NA
Isopropylbenzene	720		250	150	ug/Kg	250		8260B	Total/NA
m,p-Xylene	3000		490	120	ug/Kg	250		8260B	Total/NA
Naphthalene	47000		2500	1300	ug/Kg	250		8260B	Total/NA
n-Butylbenzene	2700		250	52	ug/Kg	250		8260B	Total/NA
N-Propylbenzene	1600		490	150	ug/Kg	250		8260B	Total/NA
o-Xylene	3700		250	150	ug/Kg	250		8260B	Total/NA
p-Isopropyltoluene	1400		250	170	ug/Kg	250		8260B	Total/NA
sec-Butylbenzene	720		250	150	ug/Kg	250		8260B	Total/NA
Xylenes, Total	6700		740	170	ug/Kg	250		8260B	Total/NA
Gasoline Range Organics (C4-C12)	360		20	11	mg/Kg	200		8015B	Total/NA
C9-C10	22		4.9	3.8	mg/Kg	1		8015B	Total/NA
C11-C12	82		4.9	3.8	mg/Kg	1		8015B	Total/NA
C13-C14	110		4.9	3.8	mg/Kg	1		8015B	Total/NA
C15-C16	78		4.9	3.8	mg/Kg	1		8015B	Total/NA
C17-C18	91		4.9	3.8	mg/Kg	1		8015B	Total/NA
C19-C20	76		4.9	3.8	mg/Kg	1		8015B	Total/NA
C21-C22	39		4.9	3.8	mg/Kg	1		8015B	Total/NA
C23-C24	18		4.9	3.8	mg/Kg	1		8015B	Total/NA
C25-C28	30		4.9	3.8	mg/Kg	1		8015B	Total/NA
C29-C32	26		4.9	3.8	mg/Kg	1		8015B	Total/NA
C33-C36	16		4.9	3.8	mg/Kg	1		8015B	Total/NA
C37-C40	8.2		4.9	3.8	mg/Kg	1		8015B	Total/NA
C6-C44	590		4.9	3.8	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	530		4.9	3.8	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	52		4.9	3.8	mg/Kg	1		8015B	Total/NA
Aluminum	3860	B	2.48	0.354	mg/Kg	1		6010B	Total/NA
Antimony	0.232	J B	0.743	0.148	mg/Kg	1		6010B	Total/NA
Arsenic	6.80		0.743	0.256	mg/Kg	1		6010B	Total/NA
Barium	4590		0.495	0.152	mg/Kg	1		6010B	Total/NA
Beryllium	0.690		0.248	0.136	mg/Kg	1		6010B	Total/NA
Boron	8.78	B	1.98	0.445	mg/Kg	1		6010B	Total/NA
Cadmium	3.66		0.495	0.134	mg/Kg	1		6010B	Total/NA
Calcium	10700		4.95	0.377	mg/Kg	1		6010B	Total/NA
Chromium	15.1		0.248	0.141	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: DB3000VB-1-1.5D (Continued)

## Lab Sample ID: 570-42384-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	25.0		0.495	0.134	mg/Kg	1		6010B	Total/NA
Iron	10900	B	4.95	0.132	mg/Kg	1		6010B	Total/NA
Lead	5.65		0.495	0.131	mg/Kg	1		6010B	Total/NA
Magnesium	2010		4.95	0.167	mg/Kg	1		6010B	Total/NA
Manganese	132		0.248	0.138	mg/Kg	1		6010B	Total/NA
Molybdenum	8.98		0.248	0.131	mg/Kg	1		6010B	Total/NA
Nickel	41.6		0.248	0.144	mg/Kg	1		6010B	Total/NA
Phosphorus	960	B	4.95	0.248	mg/Kg	1		6010B	Total/NA
Potassium	2740	B	24.8	1.73	mg/Kg	1		6010B	Total/NA
Silicon	223		4.95	1.31	mg/Kg	1		6010B	Total/NA
Sodium	452		24.8	1.80	mg/Kg	1		6010B	Total/NA
Strontium	170		7.43	0.683	mg/Kg	5		6010B	Total/NA
Thallium	0.176	J	0.743	0.150	mg/Kg	1		6010B	Total/NA
Titanium	242		1.49	0.137	mg/Kg	1		6010B	Total/NA
Vanadium	63.0		0.248	0.140	mg/Kg	1		6010B	Total/NA
Zinc	154		0.990	0.176	mg/Kg	1		6010B	Total/NA
Mercury	0.0311	J	0.0847	0.0137	mg/Kg	1		7471A	Total/NA

## Client Sample ID: CT1106

## Lab Sample ID: 570-42384-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	16000		990	300	ug/Kg	50		8260B	Total/NA
1,3,5-Trimethylbenzene	6300		990	300	ug/Kg	50		8260B	Total/NA
Benzene	1700		500	130	ug/Kg	50		8260B	Total/NA
Cyclohexane	4800	J	9900	1800	ug/Kg	50		8260B	Total/NA
Ethylbenzene	2500		500	100	ug/Kg	50		8260B	Total/NA
Hexane	1500	J	2500	800	ug/Kg	50		8260B	Total/NA
Isopropylbenzene	840		500	300	ug/Kg	50		8260B	Total/NA
m,p-Xylene	16000		990	230	ug/Kg	50		8260B	Total/NA
Naphthalene	85000		5000	2600	ug/Kg	50		8260B	Total/NA
n-Butylbenzene	3200		500	100	ug/Kg	50		8260B	Total/NA
N-Propylbenzene	1700		990	300	ug/Kg	50		8260B	Total/NA
o-Xylene	6100		500	300	ug/Kg	50		8260B	Total/NA
p-Isopropyltoluene	1400		500	350	ug/Kg	50		8260B	Total/NA
sec-Butylbenzene	790		500	300	ug/Kg	50		8260B	Total/NA
Toluene	8800		500	300	ug/Kg	50		8260B	Total/NA
Xylenes, Total	22000		1500	350	ug/Kg	50		8260B	Total/NA
Gasoline Range Organics (C4-C12)	1100		200	110	mg/Kg	200		8015B	Total/NA
C13-C14	23000		4200	3200	mg/Kg	100		8015B	Total/NA
C15-C16	56000		4200	3200	mg/Kg	100		8015B	Total/NA
C17-C18	82000		4200	3200	mg/Kg	100		8015B	Total/NA
C19-C20	65000		4200	3200	mg/Kg	100		8015B	Total/NA
C21-C22	51000		4200	3200	mg/Kg	100		8015B	Total/NA
C23-C24	41000		4200	3200	mg/Kg	100		8015B	Total/NA
C25-C28	74000		4200	3200	mg/Kg	100		8015B	Total/NA
C29-C32	64000		4200	3200	mg/Kg	100		8015B	Total/NA
C33-C36	37000		4200	3200	mg/Kg	100		8015B	Total/NA
C37-C40	17000		4200	3200	mg/Kg	100		8015B	Total/NA
C41-C44	6500		4200	3200	mg/Kg	100		8015B	Total/NA
C6-C44	520000		4200	3200	mg/Kg	100		8015B	Total/NA
Diesel Range Organics [C10-C28]	390000		4200	3200	mg/Kg	100		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: CT1106 (Continued)

## Lab Sample ID: 570-42384-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil (C29-C44)	120000		4200	3200	mg/Kg	100		8015B	Total/NA
Aluminum	109	B	5.10	0.731	mg/Kg	1		6010B	Total/NA
Antimony	0.558	J B	1.53	0.304	mg/Kg	1		6010B	Total/NA
Arsenic	1.40	J	1.53	0.529	mg/Kg	1		6010B	Total/NA
Barium	114		1.02	0.314	mg/Kg	1		6010B	Total/NA
Boron	8.35	B	4.08	0.916	mg/Kg	1		6010B	Total/NA
Cadmium	0.348	J	1.02	0.276	mg/Kg	1		6010B	Total/NA
Calcium	267		10.2	0.778	mg/Kg	1		6010B	Total/NA
Chromium	0.330	J	0.510	0.290	mg/Kg	1		6010B	Total/NA
Cobalt	0.565		0.510	0.302	mg/Kg	1		6010B	Total/NA
Copper	2.22		1.02	0.276	mg/Kg	1		6010B	Total/NA
Iron	489	B	10.2	0.271	mg/Kg	1		6010B	Total/NA
Magnesium	51.1		10.2	0.345	mg/Kg	1		6010B	Total/NA
Manganese	5.78		0.510	0.284	mg/Kg	1		6010B	Total/NA
Molybdenum	1.03		0.510	0.269	mg/Kg	1		6010B	Total/NA
Nickel	11.9		0.510	0.296	mg/Kg	1		6010B	Total/NA
Phosphorus	28.7	B	10.2	0.510	mg/Kg	1		6010B	Total/NA
Potassium	66.6	B	51.0	3.57	mg/Kg	1		6010B	Total/NA
Silicon	32.8		10.2	2.69	mg/Kg	1		6010B	Total/NA
Silver	0.187	J	0.510	0.175	mg/Kg	1		6010B	Total/NA
Sodium	123		51.0	3.71	mg/Kg	1		6010B	Total/NA
Strontium	3.71		3.06	0.282	mg/Kg	1		6010B	Total/NA
Thallium	0.907	J	1.53	0.310	mg/Kg	1		6010B	Total/NA
Tin	1.95	J B	5.10	0.304	mg/Kg	1		6010B	Total/NA
Titanium	6.42		3.06	0.282	mg/Kg	1		6010B	Total/NA
Vanadium	7.65		0.510	0.288	mg/Kg	1		6010B	Total/NA
Zinc	2.93		2.04	0.363	mg/Kg	1		6010B	Total/NA

## Client Sample ID: CT817

## Lab Sample ID: 570-42384-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	13000		1000	300	ug/Kg	50		8260B	Total/NA
1,3,5-Trimethylbenzene	5400		1000	300	ug/Kg	50		8260B	Total/NA
Benzene	1700		510	130	ug/Kg	50		8260B	Total/NA
Cyclohexane	5200	J	10000	1900	ug/Kg	50		8260B	Total/NA
Ethylbenzene	2100		510	100	ug/Kg	50		8260B	Total/NA
Hexane	2000	J	2500	820	ug/Kg	50		8260B	Total/NA
Isopropylbenzene	680		510	300	ug/Kg	50		8260B	Total/NA
m,p-Xylene	14000		1000	240	ug/Kg	50		8260B	Total/NA
Naphthalene	60000		5100	2600	ug/Kg	50		8260B	Total/NA
n-Butylbenzene	2900		510	110	ug/Kg	50		8260B	Total/NA
N-Propylbenzene	1400		1000	300	ug/Kg	50		8260B	Total/NA
o-Xylene	5000		510	300	ug/Kg	50		8260B	Total/NA
p-Isopropyltoluene	1300		510	350	ug/Kg	50		8260B	Total/NA
sec-Butylbenzene	700		510	300	ug/Kg	50		8260B	Total/NA
Toluene	8000		510	300	ug/Kg	50		8260B	Total/NA
Xylenes, Total	19000		1500	360	ug/Kg	50		8260B	Total/NA
Gasoline Range Organics (C4-C12)	1100		200	110	mg/Kg	200		8015B	Total/NA
C11-C12	1900	J	2300	1800	mg/Kg	100		8015B	Total/NA
C13-C14	10000		2300	1800	mg/Kg	100		8015B	Total/NA
C15-C16	22000		2300	1800	mg/Kg	100		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: CT817 (Continued)

## Lab Sample ID: 570-42384-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C17-C18	32000		2300	1800	mg/Kg	100		8015B	Total/NA
C19-C20	25000		2300	1800	mg/Kg	100		8015B	Total/NA
C21-C22	19000		2300	1800	mg/Kg	100		8015B	Total/NA
C23-C24	15000		2300	1800	mg/Kg	100		8015B	Total/NA
C25-C28	28000		2300	1800	mg/Kg	100		8015B	Total/NA
C29-C32	24000		2300	1800	mg/Kg	100		8015B	Total/NA
C33-C36	15000		2300	1800	mg/Kg	100		8015B	Total/NA
C37-C40	7300		2300	1800	mg/Kg	100		8015B	Total/NA
C41-C44	3300		2300	1800	mg/Kg	100		8015B	Total/NA
C6-C44	200000		2300	1800	mg/Kg	100		8015B	Total/NA
Diesel Range Organics [C10-C28]	150000		2300	1800	mg/Kg	100		8015B	Total/NA
TPH as Motor Oil (C29-C44)	49000		2300	1800	mg/Kg	100		8015B	Total/NA
Aluminum	1140	B	5.15	0.738	mg/Kg	1		6010B	Total/NA
Arsenic	1.14	J	1.55	0.534	mg/Kg	1		6010B	Total/NA
Barium	1270		1.03	0.318	mg/Kg	1		6010B	Total/NA
Boron	7.09	B	4.12	0.926	mg/Kg	1		6010B	Total/NA
Cadmium	1.71		1.03	0.278	mg/Kg	1		6010B	Total/NA
Calcium	3020		10.3	0.786	mg/Kg	1		6010B	Total/NA
Chromium	3.67		0.515	0.293	mg/Kg	1		6010B	Total/NA
Cobalt	0.869		0.515	0.305	mg/Kg	1		6010B	Total/NA
Copper	7.06		1.03	0.278	mg/Kg	1		6010B	Total/NA
Iron	3600	B	10.3	0.274	mg/Kg	1		6010B	Total/NA
Lead	1.48		1.03	0.272	mg/Kg	1		6010B	Total/NA
Magnesium	640		10.3	0.348	mg/Kg	1		6010B	Total/NA
Manganese	72.5		0.515	0.287	mg/Kg	1		6010B	Total/NA
Molybdenum	2.91		0.515	0.272	mg/Kg	1		6010B	Total/NA
Nickel	25.4		0.515	0.299	mg/Kg	1		6010B	Total/NA
Phosphorus	369	B	10.3	0.515	mg/Kg	1		6010B	Total/NA
Potassium	653	B	51.5	3.61	mg/Kg	1		6010B	Total/NA
Silicon	84.3		10.3	2.72	mg/Kg	1		6010B	Total/NA
Sodium	312		51.5	3.75	mg/Kg	1		6010B	Total/NA
Strontium	25.4		3.09	0.285	mg/Kg	1		6010B	Total/NA
Titanium	45.1		3.09	0.285	mg/Kg	1		6010B	Total/NA
Vanadium	19.9		0.515	0.291	mg/Kg	1		6010B	Total/NA
Zinc	23.7		2.06	0.367	mg/Kg	1		6010B	Total/NA

## Client Sample ID: CT824

## Lab Sample ID: 570-42384-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	15000		980	290	ug/Kg	50		8260B	Total/NA
1,3,5-Trimethylbenzene	6400		980	290	ug/Kg	50		8260B	Total/NA
Benzene	1600		490	130	ug/Kg	50		8260B	Total/NA
Cyclohexane	4700	J	9800	1800	ug/Kg	50		8260B	Total/NA
Ethylbenzene	2400		490	100	ug/Kg	50		8260B	Total/NA
Hexane	1500	J	2500	800	ug/Kg	50		8260B	Total/NA
Isopropylbenzene	760		490	290	ug/Kg	50		8260B	Total/NA
m,p-Xylene	17000		980	230	ug/Kg	50		8260B	Total/NA
Naphthalene	91000		4900	2600	ug/Kg	50		8260B	Total/NA
n-Butylbenzene	3200		490	100	ug/Kg	50		8260B	Total/NA
N-Propylbenzene	1600		980	290	ug/Kg	50		8260B	Total/NA
o-Xylene	5900		490	290	ug/Kg	50		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: CT824 (Continued)

## Lab Sample ID: 570-42384-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
p-Isopropyltoluene	1400		490	340	ug/Kg	50		8260B	Total/NA
sec-Butylbenzene	710		490	290	ug/Kg	50		8260B	Total/NA
Toluene	8500		490	290	ug/Kg	50		8260B	Total/NA
Xylenes, Total	23000		1500	350	ug/Kg	50		8260B	Total/NA
Gasoline Range Organics (C4-C12)	1200		200	110	mg/Kg	200		8015B	Total/NA
C13-C14	28000		9000	6900	mg/Kg	200		8015B	Total/NA
C15-C16	62000		9000	6900	mg/Kg	200		8015B	Total/NA
C17-C18	86000		9000	6900	mg/Kg	200		8015B	Total/NA
C19-C20	67000		9000	6900	mg/Kg	200		8015B	Total/NA
C21-C22	52000		9000	6900	mg/Kg	200		8015B	Total/NA
C23-C24	42000		9000	6900	mg/Kg	200		8015B	Total/NA
C25-C28	76000		9000	6900	mg/Kg	200		8015B	Total/NA
C29-C32	64000		9000	6900	mg/Kg	200		8015B	Total/NA
C33-C36	37000		9000	6900	mg/Kg	200		8015B	Total/NA
C37-C40	17000		9000	6900	mg/Kg	200		8015B	Total/NA
C6-C44	540000		9000	6900	mg/Kg	200		8015B	Total/NA
Diesel Range Organics [C10-C28]	410000		9000	6900	mg/Kg	200		8015B	Total/NA
TPH as Motor Oil (C29-C44)	120000		9000	6900	mg/Kg	200		8015B	Total/NA
Aluminum	122	B	4.85	0.695	mg/Kg	1		6010B	Total/NA
Antimony	0.504	J B	1.46	0.289	mg/Kg	1		6010B	Total/NA
Arsenic	0.549	J	1.46	0.503	mg/Kg	1		6010B	Total/NA
Barium	169		0.971	0.299	mg/Kg	1		6010B	Total/NA
Boron	8.04	B	3.88	0.872	mg/Kg	1		6010B	Total/NA
Cadmium	0.328	J	0.971	0.262	mg/Kg	1		6010B	Total/NA
Calcium	549		9.71	0.740	mg/Kg	1		6010B	Total/NA
Chromium	0.415	J	0.485	0.276	mg/Kg	1		6010B	Total/NA
Cobalt	0.479	J	0.485	0.287	mg/Kg	1		6010B	Total/NA
Copper	1.91		0.971	0.262	mg/Kg	1		6010B	Total/NA
Iron	515	B	9.71	0.258	mg/Kg	1		6010B	Total/NA
Magnesium	62.4		9.71	0.328	mg/Kg	1		6010B	Total/NA
Manganese	7.09		0.485	0.270	mg/Kg	1		6010B	Total/NA
Molybdenum	1.01		0.485	0.256	mg/Kg	1		6010B	Total/NA
Nickel	10.7		0.485	0.282	mg/Kg	1		6010B	Total/NA
Phosphorus	35.0	B	9.71	0.485	mg/Kg	1		6010B	Total/NA
Potassium	81.1	B	48.5	3.40	mg/Kg	1		6010B	Total/NA
Silicon	23.6		9.71	2.56	mg/Kg	1		6010B	Total/NA
Sodium	138		48.5	3.53	mg/Kg	1		6010B	Total/NA
Strontium	8.10		2.91	0.268	mg/Kg	1		6010B	Total/NA
Tin	1.26	J B	4.85	0.289	mg/Kg	1		6010B	Total/NA
Titanium	6.56		2.91	0.268	mg/Kg	1		6010B	Total/NA
Vanadium	6.96		0.485	0.274	mg/Kg	1		6010B	Total/NA
Zinc	2.99		1.94	0.346	mg/Kg	1		6010B	Total/NA

## Client Sample ID: V327

## Lab Sample ID: 570-42384-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butylbenzene	31	J	43	9.1	ug/Kg	50		8260B	Total/NA
Gasoline Range Organics (C4-C12)	5.5		0.11	0.063	mg/Kg	1		8015B	Total/NA
C11-C12	12		5.0	3.8	mg/Kg	1		8015B	Total/NA
C13-C14	37		5.0	3.8	mg/Kg	1		8015B	Total/NA
C15-C16	55		5.0	3.8	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: V327 (Continued)

## Lab Sample ID: 570-42384-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C17-C18	84		5.0	3.8	mg/Kg	1		8015B	Total/NA
C19-C20	71		5.0	3.8	mg/Kg	1		8015B	Total/NA
C21-C22	45		5.0	3.8	mg/Kg	1		8015B	Total/NA
C23-C24	29		5.0	3.8	mg/Kg	1		8015B	Total/NA
C25-C28	58		5.0	3.8	mg/Kg	1		8015B	Total/NA
C29-C32	53		5.0	3.8	mg/Kg	1		8015B	Total/NA
C33-C36	31		5.0	3.8	mg/Kg	1		8015B	Total/NA
C37-C40	15		5.0	3.8	mg/Kg	1		8015B	Total/NA
C6-C44	490		5.0	3.8	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	390		5.0	3.8	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	100		5.0	3.8	mg/Kg	1		8015B	Total/NA
Aluminum	5620	B	2.44	0.349	mg/Kg	1		6010B	Total/NA
Antimony	0.182	J B	0.732	0.145	mg/Kg	1		6010B	Total/NA
Arsenic	4.63		0.732	0.253	mg/Kg	1		6010B	Total/NA
Barium	1410		0.488	0.150	mg/Kg	1		6010B	Total/NA
Beryllium	0.994		0.244	0.134	mg/Kg	1		6010B	Total/NA
Boron	1.22	J B	1.95	0.438	mg/Kg	1		6010B	Total/NA
Cadmium	5.93		0.488	0.132	mg/Kg	1		6010B	Total/NA
Calcium	12400		4.88	0.372	mg/Kg	1		6010B	Total/NA
Chromium	24.2		0.244	0.139	mg/Kg	1		6010B	Total/NA
Cobalt	4.58		0.244	0.144	mg/Kg	1		6010B	Total/NA
Copper	39.6		0.488	0.132	mg/Kg	1		6010B	Total/NA
Iron	21100	B	4.88	0.130	mg/Kg	1		6010B	Total/NA
Lead	12.8		0.488	0.129	mg/Kg	1		6010B	Total/NA
Magnesium	2830		4.88	0.165	mg/Kg	1		6010B	Total/NA
Manganese	314		0.244	0.136	mg/Kg	1		6010B	Total/NA
Molybdenum	9.36		0.244	0.129	mg/Kg	1		6010B	Total/NA
Nickel	63.0		0.244	0.141	mg/Kg	1		6010B	Total/NA
Phosphorus	1430	B	4.88	0.244	mg/Kg	1		6010B	Total/NA
Potassium	2710	B	24.4	1.71	mg/Kg	1		6010B	Total/NA
Silicon	195		4.88	1.29	mg/Kg	1		6010B	Total/NA
Sodium	729		24.4	1.78	mg/Kg	1		6010B	Total/NA
Strontium	89.0		1.46	0.135	mg/Kg	1		6010B	Total/NA
Titanium	322		1.46	0.135	mg/Kg	1		6010B	Total/NA
Vanadium	83.8		0.244	0.138	mg/Kg	1		6010B	Total/NA
Zinc	124		0.976	0.174	mg/Kg	1		6010B	Total/NA
Mercury	0.0790	J	0.0833	0.0135	mg/Kg	1		7471A	Total/NA

## Client Sample ID: V509-1-0.5

## Lab Sample ID: 570-42384-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	15	J	39	9.7	ug/Kg	50		8260B	Total/NA
n-Butylbenzene	22	J	39	8.2	ug/Kg	50		8260B	Total/NA
Gasoline Range Organics (C4-C12)	0.52		0.091	0.050	mg/Kg	1		8015B	Total/NA
C11-C12	3.8	J	5.0	3.8	mg/Kg	1		8015B	Total/NA
C13-C14	8.0		5.0	3.8	mg/Kg	1		8015B	Total/NA
C15-C16	8.8		5.0	3.8	mg/Kg	1		8015B	Total/NA
C17-C18	12		5.0	3.8	mg/Kg	1		8015B	Total/NA
C19-C20	10		5.0	3.8	mg/Kg	1		8015B	Total/NA
C21-C22	6.4		5.0	3.8	mg/Kg	1		8015B	Total/NA
C25-C28	8.5		5.0	3.8	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Client Sample ID: V509-1-0.5 (Continued)

## Lab Sample ID: 570-42384-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C29-C32	8.7		5.0	3.8	mg/Kg	1		8015B	Total/NA
C33-C36	5.3		5.0	3.8	mg/Kg	1		8015B	Total/NA
C6-C44	78		5.0	3.8	mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	61		5.0	3.8	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	17		5.0	3.8	mg/Kg	1		8015B	Total/NA
Aluminum	5300	B	2.48	0.354	mg/Kg	1		6010B	Total/NA
Arsenic	2.05		0.743	0.256	mg/Kg	1		6010B	Total/NA
Barium	708		0.495	0.152	mg/Kg	1		6010B	Total/NA
Beryllium	0.842		0.248	0.136	mg/Kg	1		6010B	Total/NA
Boron	22.8	B	1.98	0.445	mg/Kg	1		6010B	Total/NA
Cadmium	5.05		0.495	0.134	mg/Kg	1		6010B	Total/NA
Calcium	9360		4.95	0.377	mg/Kg	1		6010B	Total/NA
Chromium	23.9		0.248	0.141	mg/Kg	1		6010B	Total/NA
Cobalt	5.74		0.248	0.147	mg/Kg	1		6010B	Total/NA
Copper	48.4		0.495	0.134	mg/Kg	1		6010B	Total/NA
Iron	29000	B	4.95	0.132	mg/Kg	1		6010B	Total/NA
Lead	7.55		0.495	0.131	mg/Kg	1		6010B	Total/NA
Magnesium	2580		4.95	0.167	mg/Kg	1		6010B	Total/NA
Manganese	228		0.248	0.138	mg/Kg	1		6010B	Total/NA
Molybdenum	8.64		0.248	0.131	mg/Kg	1		6010B	Total/NA
Nickel	68.5		0.248	0.144	mg/Kg	1		6010B	Total/NA
Phosphorus	1090	B	4.95	0.248	mg/Kg	1		6010B	Total/NA
Potassium	2670	B	24.8	1.73	mg/Kg	1		6010B	Total/NA
Silicon	198		4.95	1.31	mg/Kg	1		6010B	Total/NA
Sodium	454		24.8	1.80	mg/Kg	1		6010B	Total/NA
Strontium	68.2		1.49	0.137	mg/Kg	1		6010B	Total/NA
Titanium	302		1.49	0.137	mg/Kg	1		6010B	Total/NA
Vanadium	78.6		0.248	0.140	mg/Kg	1		6010B	Total/NA
Zinc	90.3		0.990	0.176	mg/Kg	1		6010B	Total/NA
Mercury	0.0545	J	0.0820	0.0133	mg/Kg	1		7471A	Total/NA

## Client Sample ID: EB-102920

## Lab Sample ID: 570-42384-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	42	J	50	22	ug/L	1		8015B	Total/NA
TPH as Motor Oil (C29-C44)	41	J	50	22	ug/L	1		8015B	Total/NA
Copper	0.0138	J	0.0500	0.00614	mg/L	1		6010B	Total/NA
Potassium	0.278	J	2.00	0.240	mg/L	1		6010B	Total/NA
Silicon	0.817		0.250	0.0947	mg/L	1		6010B	Total/NA
Sodium	1.75	J	2.00	1.11	mg/L	1		6010B	Total/NA

## Client Sample ID: TB1

## Lab Sample ID: 570-42384-12

No Detections.

## Client Sample ID: TB2

## Lab Sample ID: 570-42384-13

No Detections.

## Client Sample ID: TB3

## Lab Sample ID: 570-42384-14

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: TB4**

**Lab Sample ID: 570-42384-15**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/11/20 14:38	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/11/20 14:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/11/20 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/11/20 14:38	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/11/20 14:38	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/11/20 14:38	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/11/20 14:38	1
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/11/20 14:38	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/11/20 14:38	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/11/20 14:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/11/20 14:38	1
<b>1,2,4-Trimethylbenzene</b>	<b>1.3</b>		1.0	0.34	ug/L			11/11/20 14:38	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/11/20 14:38	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/11/20 14:38	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/11/20 14:38	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/11/20 14:38	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/11/20 14:38	1
<b>1,3,5-Trimethylbenzene</b>	<b>0.69 J</b>		1.0	0.34	ug/L			11/11/20 14:38	1
1,3-Butadiene	ND		25	3.5	ug/L			11/11/20 14:38	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/11/20 14:38	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/11/20 14:38	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/11/20 14:38	1
1,4-Dioxane	ND		100	25	ug/L			11/11/20 14:38	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/11/20 14:38	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/11/20 14:38	1
2-Butanone	ND		20	3.6	ug/L			11/11/20 14:38	1
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/11/20 14:38	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/11/20 14:38	1
2-Hexanone	ND		10	3.1	ug/L			11/11/20 14:38	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/11/20 14:38	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/11/20 14:38	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/11/20 14:38	1
Acetone	ND		20	10	ug/L			11/11/20 14:38	1
Acetonitrile	ND		50	4.7	ug/L			11/11/20 14:38	1
Acrolein	ND		50	6.3	ug/L			11/11/20 14:38	1
Acrylonitrile	ND		20	4.0	ug/L			11/11/20 14:38	1
Benzene	ND		0.50	0.20	ug/L			11/11/20 14:38	1
Bromobenzene	ND		1.0	0.30	ug/L			11/11/20 14:38	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/11/20 14:38	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/11/20 14:38	1
Bromoform	ND		5.0	1.5	ug/L			11/11/20 14:38	1
Bromomethane	ND		25	15	ug/L			11/11/20 14:38	1
Carbon disulfide	ND		10	0.40	ug/L			11/11/20 14:38	1
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/11/20 14:38	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/11/20 14:38	1
Chloroethane	ND		5.0	2.4	ug/L			11/11/20 14:38	1
Chloroform	ND		1.0	0.50	ug/L			11/11/20 14:38	1
Chloromethane	ND		10	2.3	ug/L			11/11/20 14:38	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/11/20 14:38	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/11/20 14:38	1
Cyclohexane	ND		10	3.7	ug/L			11/11/20 14:38	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/11/20 14:38	1
Dibromomethane	ND		1.0	0.38	ug/L			11/11/20 14:38	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/11/20 14:38	1
Diethyl ether	ND		10	1.5	ug/L			11/11/20 14:38	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/11/20 14:38	1
Ethanol	ND		100	60	ug/L			11/11/20 14:38	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/11/20 14:38	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/11/20 14:38	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/11/20 14:38	1
Hexane	ND		5.0	2.3	ug/L			11/11/20 14:38	1
Iodomethane	ND		50	32	ug/L			11/11/20 14:38	1
Isobutyl alcohol	ND		50	42	ug/L			11/11/20 14:38	1
Isopropanol	ND		130	60	ug/L			11/11/20 14:38	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/11/20 14:38	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/11/20 14:38	1
Methylene Chloride	ND		10	4.0	ug/L			11/11/20 14:38	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/11/20 14:38	1
<b>Naphthalene</b>	<b>5.0</b>	<b>J</b>	10	5.0	ug/L			11/11/20 14:38	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 14:38	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/11/20 14:38	1
o-Xylene	ND		1.0	0.26	ug/L			11/11/20 14:38	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/11/20 14:38	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 14:38	1
Styrene	ND		1.0	0.38	ug/L			11/11/20 14:38	1
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/11/20 14:38	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/11/20 14:38	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/11/20 14:38	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/11/20 14:38	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/11/20 14:38	1
Thiophene	ND		10	0.90	ug/L			11/11/20 14:38	1
Toluene	ND		1.0	0.34	ug/L			11/11/20 14:38	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/11/20 14:38	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/11/20 14:38	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/11/20 14:38	1
Trichloroethene	ND		1.0	0.35	ug/L			11/11/20 14:38	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/11/20 14:38	1
Vinyl acetate	ND		10	4.6	ug/L			11/11/20 14:38	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/11/20 14:38	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/11/20 14:38	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	870	T J	ug/L		1.38			11/11/20 14:38	1
Unknown	160	T J	ug/L		1.96			11/11/20 14:38	1
Unknown	36	T J	ug/L		1.99			11/11/20 14:38	1
Unknown	37	T J	ug/L		2.12			11/11/20 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		80 - 129		11/11/20 14:38	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		77 - 120		11/11/20 14:38	1
Dibromofluoromethane (Surr)	97		80 - 128		11/11/20 14:38	1
Toluene-d8 (Surr)	98		80 - 120		11/11/20 14:38	1

**Client Sample ID: V23602-1-1.5**  
**Date Collected: 10/29/20 09:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		210	60	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,1,1-Trichloroethane	ND		210	48	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,1,2,2-Tetrachloroethane	ND		410	110	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2100	96	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,1,2-Trichloroethane	ND		210	96	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,1-Dichloroethane	ND		210	58	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,1-Dichloroethene	ND		210	55	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,1-Dichloropropene	ND		410	80	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2,3-Trichlorobenzene	ND		410	210	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2,3-Trichloropropane	ND		410	87	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2,4-Trichlorobenzene	ND		410	85	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>1,2,4-Trimethylbenzene</b>	<b>13000</b>		410	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2-Dibromo-3-Chloropropane	ND		2100	1400	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2-Dibromoethane	ND		210	43	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2-Dichlorobenzene	ND		210	52	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2-Dichloroethane	ND		210	57	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,2-Dichloropropane	ND		210	57	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>1,3,5-Trimethylbenzene</b>	<b>5000</b>		410	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,3-Butadiene	ND		210	63	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,3-Dichlorobenzene	ND		210	52	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,3-Dichloropropane	ND		210	61	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,4-Dichlorobenzene	ND		210	64	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
1,4-Dioxane	ND		21000	6300	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
2,2,4-Trimethylpentane	ND		210	63	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
2,2-Dichloropropane	ND		1000	56	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
2-Butanone	ND		4100	930	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
2-Chloroethyl vinyl ether	ND		4100	2000	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
2-Chlorotoluene	ND		210	52	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
2-Hexanone	ND		4100	640	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
2-Methyl-2-butanol (TAA)	ND		10000	4400	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
4-Chlorotoluene	ND		210	50	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
4-Methyl-2-pentanone	ND		4100	600	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Acetone	ND		4100	2000	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Acetonitrile	ND		8300	1400	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Acrolein	ND	+	10000	1200	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Acrylonitrile	ND		5200	1000	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>Benzene</b>	<b>360</b>		210	53	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Bromobenzene	ND		210	43	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Bromochloromethane	ND		410	92	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Bromodichloromethane	ND		210	33	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Bromoform	ND		1000	270	ug/Kg		10/29/20 19:56	11/07/20 06:45	250

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: V23602-1-1.5**

**Date Collected: 10/29/20 09:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		4100	1400	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Carbon disulfide	ND		2100	83	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Carbon tetrachloride	ND		210	62	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Chlorobenzene	ND		210	55	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Chloroethane	ND		410	310	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Chloroform	ND		210	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Chloromethane	ND		4100	320	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
cis-1,2-Dichloroethene	ND		210	70	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
cis-1,3-Dichloropropene	ND		210	72	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>Cyclohexane</b>	<b>910</b>	<b>J</b>	4100	760	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Dibromochloromethane	ND		410	56	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Dibromomethane	ND		210	63	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Dichlorodifluoromethane	ND		410	94	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Diethyl ether	ND		4100	340	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Di-isopropyl ether (DIPE)	ND		210	100	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Ethanol	ND		52000	14000	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>Ethylbenzene</b>	<b>1900</b>		210	43	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Ethyl-t-butyl ether (ETBE)	ND		210	49	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Hexachloro-1,3-butadiene	ND		1000	340	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Hexane	ND		1000	340	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Iodomethane	ND		10000	4500	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Isobutyl alcohol	ND		10000	9300	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Isopropanol	ND		26000	12000	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>Isopropylbenzene</b>	<b>650</b>		210	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>m,p-Xylene</b>	<b>11000</b>		410	98	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Methylene Chloride	ND		2100	650	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Methyl-t-Butyl Ether (MTBE)	ND		410	39	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>Naphthalene</b>	<b>38000</b>		2100	1100	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>n-Butylbenzene</b>	<b>2200</b>		210	44	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>N-Propylbenzene</b>	<b>1500</b>		410	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>o-Xylene</b>	<b>4500</b>		210	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>p-Isopropyltoluene</b>	<b>1200</b>		210	140	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>sec-Butylbenzene</b>	<b>610</b>		210	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Styrene	ND		210	140	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Tert-amyl-methyl ether (TAME)	ND		210	40	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
tert-Butyl alcohol (TBA)	ND		4100	1400	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
tert-Butylbenzene	ND		210	53	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Tetrachloroethene	ND		210	46	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Tetrahydrofuran	ND		4100	780	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Thiophene	ND		1000	270	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>Toluene</b>	<b>1500</b>		210	120	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
trans-1,2-Dichloroethene	ND		210	62	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
trans-1,3-Dichloropropene	ND		410	58	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
trans-1,4-Dichloro-2-butene	ND		2100	640	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Trichloroethene	ND		410	80	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Trichlorofluoromethane	ND		2100	56	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Vinyl acetate	ND		2100	810	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
Vinyl chloride	ND		210	78	ug/Kg		10/29/20 19:56	11/07/20 06:45	250
<b>Xylenes, Total</b>	<b>16000</b>		620	150	ug/Kg		10/29/20 19:56	11/07/20 06:45	250

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	3500	T J	ug/Kg		12.72		10/29/20 19:56	11/07/20 06:45	250
Benzene, 1-ethyl-2-methyl-	10000	T J N	ug/Kg		13.50	611-14-3	10/29/20 19:56	11/07/20 06:45	250
Benzene, 1-ethyl-4-methyl-	3800	T J N	ug/Kg		13.86	622-96-8	10/29/20 19:56	11/07/20 06:45	250
Benzene, 1,2,3-trimethyl-	9200	T J N	ug/Kg		14.60	526-73-8	10/29/20 19:56	11/07/20 06:45	250
Benzene, 1-methyl-3-propyl-	6400	T J N	ug/Kg		14.87	1074-43-7	10/29/20 19:56	11/07/20 06:45	250
Undecane	5200	T J N	ug/Kg		15.09	1120-21-4	10/29/20 19:56	11/07/20 06:45	250
Benzene, 1-ethyl-2,4-dimethyl-	3200	T J N	ug/Kg		15.42	874-41-9	10/29/20 19:56	11/07/20 06:45	250
1-Phenyl-1-butene	6200	T J N	ug/Kg		15.58	824-90-8	10/29/20 19:56	11/07/20 06:45	250
Benzene, 1-methyl-2-(1-methyl-2-propenyl)-	3200	T J N	ug/Kg		16.28	97664-19-2	10/29/20 19:56	11/07/20 06:45	250
Benzene, 1,2,4,5-tetramethyl-	11000	T J N	ug/Kg		16.52	95-93-2	10/29/20 19:56	11/07/20 06:45	250
Naphthalene, 1,2,3,4-tetrahydro-	5100	T J N	ug/Kg		16.74	119-64-2	10/29/20 19:56	11/07/20 06:45	250
1H-Indene, 2,3-dihydro-4,7-dimethyl-	4200	T J N	ug/Kg		17.01	6682-71-9	10/29/20 19:56	11/07/20 06:45	250
1H-Indene, 2,3-dihydro-1,6-dimethyl-	5600	T J N	ug/Kg		17.14	17059-48-2	10/29/20 19:56	11/07/20 06:45	250
Unknown	3400	T J	ug/Kg		17.57		10/29/20 19:56	11/07/20 06:45	250
Unknown	3600	T J	ug/Kg		17.73		10/29/20 19:56	11/07/20 06:45	250
1H-Indene, 2,3-dihydro-4,7-dimethyl-	4700	T J N	ug/Kg		18.06	6682-71-9	10/29/20 19:56	11/07/20 06:45	250
Benzene, 1,3,5-trimethyl-2-(1-methylethenyl)-	3100	T J N	ug/Kg		18.47	14679-13-1	10/29/20 19:56	11/07/20 06:45	250
Naphthalene, 2-methyl-	41000	T J N	ug/Kg		18.68	91-57-6	10/29/20 19:56	11/07/20 06:45	250
Benzocycloheptatriene	16000	T J N	ug/Kg		18.88	264-09-5	10/29/20 19:56	11/07/20 06:45	250
Biphenyl	5300	T J N	ug/Kg		19.49	92-52-4	10/29/20 19:56	11/07/20 06:45	250
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		71 - 155				10/29/20 19:56	11/07/20 06:45	250
4-Bromofluorobenzene (Surr)	100		80 - 120				10/29/20 19:56	11/07/20 06:45	250
Dibromofluoromethane (Surr)	101		79 - 133				10/29/20 19:56	11/07/20 06:45	250
Toluene-d8 (Surr)	99		80 - 120				10/29/20 19:56	11/07/20 06:45	250

**Client Sample ID: DB30001VB-1-1.5**

**Date Collected: 10/29/20 07:50**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		120	34	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,1,1-Trichloroethane	ND		120	28	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,1,2,2-Tetrachloroethane	ND		240	64	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1200	55	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,1,2-Trichloroethane	ND		120	55	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,1-Dichloroethane	ND		120	33	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,1-Dichloroethene	ND		120	31	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,1-Dichloropropene	ND		240	46	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2,3-Trichlorobenzene	ND		240	120	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2,3-Trichloropropane	ND		240	49	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2,4-Trichlorobenzene	ND		240	48	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>1,2,4-Trimethylbenzene</b>	<b>5800</b>		240	71	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2-Dibromo-3-Chloropropane	ND		1200	800	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2-Dibromoethane	ND		120	24	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2-Dichlorobenzene	ND		120	30	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2-Dichloroethane	ND		120	33	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,2-Dichloropropane	ND		120	33	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>1,3,5-Trimethylbenzene</b>	<b>2200</b>		240	71	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,3-Butadiene	ND		120	36	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,3-Dichlorobenzene	ND		120	30	ug/Kg		10/29/20 19:56	11/07/20 06:19	200

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: DB30001VB-1-1.5**

**Date Collected: 10/29/20 07:50**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		120	35	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,4-Dichlorobenzene	ND		120	36	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
1,4-Dioxane	ND		12000	3600	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
2,2,4-Trimethylpentane	ND		120	36	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
2,2-Dichloropropane	ND		590	32	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
2-Butanone	ND		2400	530	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
2-Chloroethyl vinyl ether	ND		2400	1200	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
2-Chlorotoluene	ND		120	30	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
2-Hexanone	ND		2400	360	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
2-Methyl-2-butanol (TAA)	ND		5900	2500	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
4-Chlorotoluene	ND		120	29	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
4-Methyl-2-pentanone	ND		2400	340	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Acetone	ND		2400	1200	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Acetonitrile	ND		4700	790	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Acrolein	ND	*+	5900	670	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Acrylonitrile	ND		3000	580	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>Benzene</b>	<b>180</b>		120	30	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Bromobenzene	ND		120	25	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Bromochloromethane	ND		240	53	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Bromodichloromethane	ND		120	19	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Bromoform	ND		590	160	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Bromomethane	ND		2400	780	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Carbon disulfide	ND		1200	47	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Carbon tetrachloride	ND		120	35	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Chlorobenzene	ND		120	32	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Chloroethane	ND		240	180	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Chloroform	ND		120	70	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Chloromethane	ND		2400	180	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
cis-1,2-Dichloroethene	ND		120	40	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
cis-1,3-Dichloropropene	ND		120	41	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Cyclohexane	ND		2400	430	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Dibromochloromethane	ND		240	32	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Dibromomethane	ND		120	36	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Dichlorodifluoromethane	ND		240	54	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Diethyl ether	ND		2400	190	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Di-isopropyl ether (DIPE)	ND		120	59	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Ethanol	ND		30000	7800	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>Ethylbenzene</b>	<b>850</b>		120	24	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Ethyl-t-butyl ether (ETBE)	ND		120	28	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Hexachloro-1,3-butadiene	ND		590	200	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Hexane	ND		590	190	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Iodomethane	ND		5900	2600	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Isobutyl alcohol	ND		5900	5300	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Isopropanol	ND		15000	7100	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>Isopropylbenzene</b>	<b>290</b>		120	71	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>m,p-Xylene</b>	<b>1500</b>		240	56	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Methylene Chloride	ND		1200	370	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Methyl-t-Butyl Ether (MTBE)	ND		240	22	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>Naphthalene</b>	<b>20000</b>		1200	620	ug/Kg		10/29/20 19:56	11/07/20 06:19	200

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: DB30001VB-1-1.5**

**Date Collected: 10/29/20 07:50**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	950		120	25	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
N-Propylbenzene	650		240	71	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
o-Xylene	380		120	71	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
p-Isopropyltoluene	480		120	83	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
sec-Butylbenzene	250		120	71	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Styrene	ND		120	83	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Tert-amyl-methyl ether (TAME)	ND		120	23	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
tert-Butyl alcohol (TBA)	ND		2400	830	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
tert-Butylbenzene	ND		120	30	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Tetrachloroethene	ND		120	26	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Tetrahydrofuran	ND		2400	450	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Thiophene	ND		590	150	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Toluene	ND		120	71	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
trans-1,2-Dichloroethene	ND		120	35	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
trans-1,3-Dichloropropene	ND		240	33	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
trans-1,4-Dichloro-2-butene	ND		1200	360	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Trichloroethene	ND		240	46	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Trichlorofluoromethane	ND		1200	32	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Vinyl acetate	ND		1200	460	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
Vinyl chloride	ND		120	45	ug/Kg		10/29/20 19:56	11/07/20 06:19	200
<b>Xylenes, Total</b>	<b>1900</b>		<b>350</b>	<b>83</b>	<b>ug/Kg</b>		<b>10/29/20 19:56</b>	<b>11/07/20 06:19</b>	<b>200</b>

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	8100	T J	ug/Kg		2.54		10/29/20 19:56	11/07/20 06:19	200
Benzene, 1-ethyl-3-methyl-	1800	T J N	ug/Kg		13.86	620-14-4	10/29/20 19:56	11/07/20 06:19	200
Benzene, 1-ethyl-2-methyl-	3700	T J N	ug/Kg		14.60	611-14-3	10/29/20 19:56	11/07/20 06:19	200
Benzene, 1,2-diethyl-	3000	T J N	ug/Kg		14.87	135-01-3	10/29/20 19:56	11/07/20 06:19	200
Dotriacontane	2800	T J N	ug/Kg		15.09	544-85-4	10/29/20 19:56	11/07/20 06:19	200
Benzene, 2-ethyl-1,3-dimethyl-	1400	T J N	ug/Kg		15.42	2870-04-4	10/29/20 19:56	11/07/20 06:19	200
1-Phenyl-1-butene	2800	T J N	ug/Kg		15.58	824-90-8	10/29/20 19:56	11/07/20 06:19	200
Benzene, 1,2,4,5-tetramethyl-	1500	T J N	ug/Kg		15.98	95-93-2	10/29/20 19:56	11/07/20 06:19	200
Benzene, 1,2,4,5-tetramethyl-	5000	T J N	ug/Kg		16.53	95-93-2	10/29/20 19:56	11/07/20 06:19	200
Naphthalene, 1,2,3,4-tetrahydro-	2600	T J N	ug/Kg		16.74	119-64-2	10/29/20 19:56	11/07/20 06:19	200
1H-Indene, 2,3-dihydro-4,7-dimethyl-	1700	T J N	ug/Kg		17.01	6682-71-9	10/29/20 19:56	11/07/20 06:19	200
1H-Indene, 2,3-dihydro-2,2-dimethyl-	2300	T J N	ug/Kg		17.14	20836-11-7	10/29/20 19:56	11/07/20 06:19	200
Unknown	1600	T J	ug/Kg		17.56		10/29/20 19:56	11/07/20 06:19	200
Hexadecane	2200	T J N	ug/Kg		17.73	544-76-3	10/29/20 19:56	11/07/20 06:19	200
1H-Indene, 2,3-dihydro-4,7-dimethyl-	2300	T J N	ug/Kg		18.06	6682-71-9	10/29/20 19:56	11/07/20 06:19	200
1H-Pyrrolo[2,3-b]pyridine, 2-ethyl-	1600	T J N	ug/Kg		18.47	23612-49-9	10/29/20 19:56	11/07/20 06:19	200
Undecane, 3,5-dimethyl-	1500	T J N	ug/Kg		18.62	17312-81-1	10/29/20 19:56	11/07/20 06:19	200
Naphthalene, 2-methyl-	21000	T J N	ug/Kg		18.68	91-57-6	10/29/20 19:56	11/07/20 06:19	200
Naphthalene, 2-methyl-	8300	T J N	ug/Kg		18.88	91-57-6	10/29/20 19:56	11/07/20 06:19	200
Biphenyl	2900	T J N	ug/Kg		19.48	92-52-4	10/29/20 19:56	11/07/20 06:19	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		71 - 155	10/29/20 19:56	11/07/20 06:19	200
4-Bromofluorobenzene (Surr)	100		80 - 120	10/29/20 19:56	11/07/20 06:19	200
Dibromofluoromethane (Surr)	100		79 - 133	10/29/20 19:56	11/07/20 06:19	200
Toluene-d8 (Surr)	101		80 - 120	10/29/20 19:56	11/07/20 06:19	200

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: DB3000VB-1-1.5**

**Date Collected: 10/29/20 08:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		520	150	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,1,1-Trichloroethane	ND		520	120	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,1,2,2-Tetrachloroethane	ND		1000	280	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5200	240	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,1,2-Trichloroethane	ND		520	240	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,1-Dichloroethane	ND		520	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,1-Dichloroethene	ND		520	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,1-Dichloropropene	ND		1000	200	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2,3-Trichlorobenzene	ND		1000	520	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2,3-Trichloropropane	ND		1000	220	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2,4-Trichlorobenzene	ND		1000	210	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>1,2,4-Trimethylbenzene</b>	<b>23000</b>		1000	310	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2-Dibromo-3-Chloropropane	ND		5200	3500	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2-Dibromoethane	ND		520	110	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2-Dichlorobenzene	ND		520	130	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2-Dichloroethane	ND		520	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,2-Dichloropropane	ND		520	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>1,3,5-Trimethylbenzene</b>	<b>8900</b>		1000	310	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,3-Butadiene	ND		520	160	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,3-Dichlorobenzene	ND		520	130	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,3-Dichloropropane	ND		520	150	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,4-Dichlorobenzene	ND		520	160	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
1,4-Dioxane	ND		52000	16000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
2,2,4-Trimethylpentane	ND		520	160	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
2,2-Dichloropropane	ND		2600	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
2-Butanone	ND		10000	2300	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
2-Chloroethyl vinyl ether	ND		10000	5100	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
2-Chlorotoluene	ND		520	130	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
2-Hexanone	ND		10000	1600	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
2-Methyl-2-butanol (TAA)	ND		26000	11000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
4-Chlorotoluene	ND		520	120	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
4-Methyl-2-pentanone	ND		10000	1500	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Acetone	ND		10000	5100	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Acetonitrile	ND		21000	3400	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Acrolein	ND	*+	26000	2900	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Acrylonitrile	ND		13000	2600	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>Benzene</b>	<b>370</b>	<b>J</b>	520	130	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Bromobenzene	ND		520	110	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Bromochloromethane	ND		1000	230	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Bromodichloromethane	ND		520	82	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Bromoform	ND		2600	680	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Bromomethane	ND		10000	3400	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Carbon disulfide	ND		5200	210	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Carbon tetrachloride	ND		520	150	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Chlorobenzene	ND		520	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Chloroethane	ND		1000	770	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Chloroform	ND		520	300	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Chloromethane	ND		10000	790	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
cis-1,2-Dichloroethene	ND		520	170	ug/Kg		10/29/20 19:56	11/07/20 05:53	500

Eurofins Calscience LLC



# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: DB3000VB-1-1.5**

**Date Collected: 10/29/20 08:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		520	180	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Cyclohexane	ND		10000	1900	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Dibromochloromethane	ND		1000	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Dibromomethane	ND		520	160	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Dichlorodifluoromethane	ND		1000	230	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Diethyl ether	ND		10000	850	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Di-isopropyl ether (DIPE)	ND		520	260	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Ethanol	ND		130000	34000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>Ethylbenzene</b>	<b>2500</b>		520	110	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Ethyl-t-butyl ether (ETBE)	ND		520	120	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Hexachloro-1,3-butadiene	ND		2600	860	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Hexane	ND		2600	840	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Iodomethane	ND		26000	11000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Isobutyl alcohol	ND		26000	23000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Isopropanol	ND		65000	31000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>Isopropylbenzene</b>	<b>1000</b>		520	310	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>m,p-Xylene</b>	<b>4200</b>		1000	240	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Methylene Chloride	ND		5200	1600	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Methyl-t-Butyl Ether (MTBE)	ND		1000	97	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>Naphthalene</b>	<b>62000</b>		5200	2700	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>n-Butylbenzene</b>	<b>4600</b>		520	110	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>N-Propylbenzene</b>	<b>2400</b>		1000	310	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>o-Xylene</b>	<b>5000</b>		520	310	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>p-Isopropyltoluene</b>	<b>2400</b>		520	360	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>sec-Butylbenzene</b>	<b>1200</b>		520	310	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Styrene	ND		520	360	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Tert-amyl-methyl ether (TAME)	ND		520	100	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
tert-Butyl alcohol (TBA)	ND		10000	3600	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
tert-Butylbenzene	ND		520	130	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Tetrachloroethene	ND		520	120	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Tetrahydrofuran	ND		10000	2000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Thiophene	ND		2600	660	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Toluene	ND		520	310	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
trans-1,2-Dichloroethene	ND		520	160	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
trans-1,3-Dichloropropene	ND		1000	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
trans-1,4-Dichloro-2-butene	ND		5200	1600	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Trichloroethene	ND		1000	200	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Trichlorofluoromethane	ND		5200	140	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Vinyl acetate	ND		5200	2000	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
Vinyl chloride	ND		520	200	ug/Kg		10/29/20 19:56	11/07/20 05:53	500
<b>Xylenes, Total</b>	<b>9200</b>		1500	360	ug/Kg		10/29/20 19:56	11/07/20 05:53	500

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	7600	T J	ug/Kg		12.72		10/29/20 19:56	11/07/20 05:53	500
Benzene, 1-ethyl-4-methyl-	10000	T J N	ug/Kg		13.53	622-96-8	10/29/20 19:56	11/07/20 05:53	500
Benzene, 1-ethyl-4-methyl-	7500	T J N	ug/Kg		13.86	622-96-8	10/29/20 19:56	11/07/20 05:53	500
Benzene, 1,2,3-trimethyl-	16000	T J N	ug/Kg		14.60	526-73-8	10/29/20 19:56	11/07/20 05:53	500
Benzene, 1-methyl-3-propyl-	12000	T J N	ug/Kg		14.87	1074-43-7	10/29/20 19:56	11/07/20 05:53	500
Nonacosane	17000	T J N	ug/Kg		15.09	630-03-5	10/29/20 19:56	11/07/20 05:53	500
Benzene, 1-methyl-3-(1-methylethyl)-	8000	T J N	ug/Kg		15.33	535-77-3	10/29/20 19:56	11/07/20 05:53	500

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: DB3000VB-1-1.5**

**Date Collected: 10/29/20 08:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**

**Matrix: Solid**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Benzene, 2-butenyl-	12000	T J N	ug/Kg		15.58	1560-06-1	10/29/20 19:56	11/07/20 05:53	500
Benzene, 1,2,3,4-tetramethyl-	7000	T J N	ug/Kg		15.98	488-23-3	10/29/20 19:56	11/07/20 05:53	500
Benzene, 1-methyl-3-(1-methyl-2-propenyl)-	9400	T J N	ug/Kg		16.28	52161-57-6	10/29/20 19:56	11/07/20 05:53	500
Benzene, 1-methyl-2-(1-methylethyl)-	22000	T J N	ug/Kg		16.52	527-84-4	10/29/20 19:56	11/07/20 05:53	500
Unknown	7900	T J	ug/Kg		16.65		10/29/20 19:56	11/07/20 05:53	500
Unknown	14000	T J	ug/Kg		16.74		10/29/20 19:56	11/07/20 05:53	500
Unknown	8000	T J	ug/Kg		17.57		10/29/20 19:56	11/07/20 05:53	500
Nonane, 2-methyl-	14000	T J N	ug/Kg		17.73	871-83-0	10/29/20 19:56	11/07/20 05:53	500
1H-Indene, 2,3-dihydro-1,3-dimethyl-	12000	T J N	ug/Kg		18.06	4175-53-5	10/29/20 19:56	11/07/20 05:53	500
Naphthalene, 2-methyl-	82000	T J N	ug/Kg		18.68	91-57-6	10/29/20 19:56	11/07/20 05:53	500
Unknown	7100	T J	ug/Kg		18.82		10/29/20 19:56	11/07/20 05:53	500
Naphthalene, 2-methyl-	28000	T J N	ug/Kg		18.88	91-57-6	10/29/20 19:56	11/07/20 05:53	500
Unknown	7200	T J	ug/Kg		19.47		10/29/20 19:56	11/07/20 05:53	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		71 - 155	10/29/20 19:56	11/07/20 05:53	500
4-Bromofluorobenzene (Surr)	102		80 - 120	10/29/20 19:56	11/07/20 05:53	500
Dibromofluoromethane (Surr)	101		79 - 133	10/29/20 19:56	11/07/20 05:53	500
Toluene-d8 (Surr)	99		80 - 120	10/29/20 19:56	11/07/20 05:53	500

**Client Sample ID: DB3000VB-1-1.5D**

**Date Collected: 10/29/20 08:11**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250	72	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,1,1-Trichloroethane	ND		250	58	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,1,2,2-Tetrachloroethane	ND		490	130	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	110	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,1,2-Trichloroethane	ND		250	110	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,1-Dichloroethane	ND		250	69	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,1-Dichloroethene	ND		250	65	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,1-Dichloropropene	ND		490	95	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2,3-Trichlorobenzene	ND		490	250	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2,3-Trichloropropane	ND		490	100	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2,4-Trichlorobenzene	ND		490	100	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>1,2,4-Trimethylbenzene</b>	<b>15000</b>		490	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2-Dibromo-3-Chloropropane	ND		2500	1700	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2-Dibromoethane	ND		250	51	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2-Dichlorobenzene	ND		250	62	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2-Dichloroethane	ND		250	68	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,2-Dichloropropane	ND		250	68	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>1,3,5-Trimethylbenzene</b>	<b>5900</b>		490	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,3-Butadiene	ND		250	75	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,3-Dichlorobenzene	ND		250	62	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,3-Dichloropropane	ND		250	73	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,4-Dichlorobenzene	ND		250	76	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
1,4-Dioxane	ND		25000	7400	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
2,2,4-Trimethylpentane	ND		250	75	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
2,2-Dichloropropane	ND		1200	67	ug/Kg		10/29/20 19:56	11/07/20 05:28	250

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: DB3000VB-1-1.5D**

**Date Collected: 10/29/20 08:11**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		4900	1100	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
2-Chloroethyl vinyl ether	ND		4900	2400	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
2-Chlorotoluene	ND		250	62	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
2-Hexanone	ND		4900	760	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
2-Methyl-2-butanol (TAA)	ND		12000	5200	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
4-Chlorotoluene	ND		250	59	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
4-Methyl-2-pentanone	ND		4900	720	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Acetone	ND		4900	2400	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Acetonitrile	ND		9800	1600	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Acrolein	ND	*+	12000	1400	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Acrylonitrile	ND		6200	1200	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>Benzene</b>	<b>240</b>	<b>J</b>	250	63	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Bromobenzene	ND		250	51	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Bromochloromethane	ND		490	110	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Bromodichloromethane	ND		250	39	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Bromoform	ND		1200	330	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Bromomethane	ND		4900	1600	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Carbon disulfide	ND		2500	98	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Carbon tetrachloride	ND		250	74	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Chlorobenzene	ND		250	66	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Chloroethane	ND		490	370	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Chloroform	ND		250	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Chloromethane	ND		4900	380	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
cis-1,2-Dichloroethene	ND		250	83	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
cis-1,3-Dichloropropene	ND		250	86	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Cyclohexane	ND		4900	910	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Dibromochloromethane	ND		490	67	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Dibromomethane	ND		250	75	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Dichlorodifluoromethane	ND		490	110	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Diethyl ether	ND		4900	400	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Di-isopropyl ether (DIPE)	ND		250	120	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Ethanol	ND		62000	16000	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>Ethylbenzene</b>	<b>1700</b>		250	51	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Ethyl-t-butyl ether (ETBE)	ND		250	58	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Hexachloro-1,3-butadiene	ND		1200	410	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Hexane	ND		1200	400	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Iodomethane	ND		12000	5300	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Isobutyl alcohol	ND		12000	11000	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Isopropanol	ND		31000	15000	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>Isopropylbenzene</b>	<b>720</b>		250	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>m,p-Xylene</b>	<b>3000</b>		490	120	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Methylene Chloride	ND		2500	770	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Methyl-t-Butyl Ether (MTBE)	ND		490	46	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>Naphthalene</b>	<b>47000</b>		2500	1300	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>n-Butylbenzene</b>	<b>2700</b>		250	52	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>N-Propylbenzene</b>	<b>1600</b>		490	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>o-Xylene</b>	<b>3700</b>		250	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>p-Isopropyltoluene</b>	<b>1400</b>		250	170	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>sec-Butylbenzene</b>	<b>720</b>		250	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: DB3000VB-1-1.5D**

**Lab Sample ID: 570-42384-5**

**Date Collected: 10/29/20 08:11**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		250	170	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Tert-amyl-methyl ether (TAME)	ND		250	48	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
tert-Butyl alcohol (TBA)	ND		4900	1700	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
tert-Butylbenzene	ND		250	63	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Tetrachloroethene	ND		250	55	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Tetrahydrofuran	ND		4900	930	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Thiophene	ND		1200	320	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Toluene	ND		250	150	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
trans-1,2-Dichloroethene	ND		250	74	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
trans-1,3-Dichloropropene	ND		490	69	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
trans-1,4-Dichloro-2-butene	ND		2500	760	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Trichloroethene	ND		490	95	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Trichlorofluoromethane	ND		2500	67	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Vinyl acetate	ND		2500	960	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
Vinyl chloride	ND		250	93	ug/Kg		10/29/20 19:56	11/07/20 05:28	250
<b>Xylenes, Total</b>	<b>6700</b>		740	170	ug/Kg		10/29/20 19:56	11/07/20 05:28	250

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	27000	T J	ug/Kg		2.55		10/29/20 19:56	11/07/20 05:28	250
Benzene, 1-ethyl-2-methyl-	3900	T J N	ug/Kg		13.50	611-14-3	10/29/20 19:56	11/07/20 05:28	250
Benzene, 1-ethyl-4-methyl-	3800	T J N	ug/Kg		13.52	622-96-8	10/29/20 19:56	11/07/20 05:28	250
Benzene, 1-ethyl-2-methyl-	4200	T J N	ug/Kg		13.86	611-14-3	10/29/20 19:56	11/07/20 05:28	250
Benzene, 1,2,3-trimethyl-	10000	T J N	ug/Kg		14.60	526-73-8	10/29/20 19:56	11/07/20 05:28	250
Benzene, 1-methyl-3-propyl-	7900	T J N	ug/Kg		14.87	1074-43-7	10/29/20 19:56	11/07/20 05:28	250
Dodecane	5600	T J N	ug/Kg		15.09	112-40-3	10/29/20 19:56	11/07/20 05:28	250
Benzene, 4-ethyl-1,2-dimethyl-	3800	T J N	ug/Kg		15.33	934-80-5	10/29/20 19:56	11/07/20 05:28	250
Benzene, 4-ethyl-1,2-dimethyl-	4100	T J N	ug/Kg		15.42	934-80-5	10/29/20 19:56	11/07/20 05:28	250
3-Phenylbut-1-ene	7600	T J N	ug/Kg		15.58	934-10-1	10/29/20 19:56	11/07/20 05:28	250
Benzene, 1,2,4,5-tetramethyl-	4000	T J N	ug/Kg		15.99	95-93-2	10/29/20 19:56	11/07/20 05:28	250
Naphthalene,	5300	T J N	ug/Kg		16.29	1559-81-5	10/29/20 19:56	11/07/20 05:28	250
1,2,3,4-tetrahydro-1-methyl-									
Benzene, 1,2,3,4-tetramethyl-	13000	T J N	ug/Kg		16.52	488-23-3	10/29/20 19:56	11/07/20 05:28	250
Naphthalene, 1,2,3,4-tetrahydro-	7300	T J N	ug/Kg		16.74	119-64-2	10/29/20 19:56	11/07/20 05:28	250
1H-Indene, 2,3-dihydro-4,7-dimethyl-	3800	T J N	ug/Kg		17.01	6682-71-9	10/29/20 19:56	11/07/20 05:28	250
Benzene, 1-(1-methylethenyl)-3-	4100	T J N	ug/Kg		17.57	1129-29-9	10/29/20 19:56	11/07/20 05:28	250
(1-methylethyl)-									
1H-Indene, 2,3-dihydro-1,2-dimethyl-	6700	T J N	ug/Kg		18.06	17057-82-8	10/29/20 19:56	11/07/20 05:28	250
Naphthalene, 2-methyl-	57000	T J N	ug/Kg		18.68	91-57-6	10/29/20 19:56	11/07/20 05:28	250
Benzocycloheptatriene	21000	T J N	ug/Kg		18.88	264-09-5	10/29/20 19:56	11/07/20 05:28	250
Biphenyl	5900	T J N	ug/Kg		19.49	92-52-4	10/29/20 19:56	11/07/20 05:28	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		71 - 155	10/29/20 19:56	11/07/20 05:28	250
4-Bromofluorobenzene (Surr)	99		80 - 120	10/29/20 19:56	11/07/20 05:28	250
Dibromofluoromethane (Surr)	104		79 - 133	10/29/20 19:56	11/07/20 05:28	250
Toluene-d8 (Surr)	102		80 - 120	10/29/20 19:56	11/07/20 05:28	250

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: CT1106**  
**Date Collected: 10/29/20 10:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		500	140	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,1,1-Trichloroethane	ND		500	120	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,1,2,2-Tetrachloroethane	ND		990	270	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5000	230	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,1,2-Trichloroethane	ND		500	230	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,1-Dichloroethane	ND		500	140	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,1-Dichloroethene	ND		500	130	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,1-Dichloropropene	ND		990	190	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2,3-Trichlorobenzene	ND		990	500	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2,3-Trichloropropane	ND		990	210	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2,4-Trichlorobenzene	ND		990	200	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>1,2,4-Trimethylbenzene</b>	<b>16000</b>		990	300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2-Dibromo-3-Chloropropane	ND		5000	3400	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2-Dibromoethane	ND		500	100	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2-Dichlorobenzene	ND		500	120	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2-Dichloroethane	ND		500	140	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,2-Dichloropropane	ND		500	140	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>1,3,5-Trimethylbenzene</b>	<b>6300</b>		990	300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,3-Butadiene	ND		500	150	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,3-Dichlorobenzene	ND		500	120	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,3-Dichloropropane	ND		500	150	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,4-Dichlorobenzene	ND		500	150	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
1,4-Dioxane	ND		50000	15000	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
2,2,4-Trimethylpentane	ND		500	150	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
2,2-Dichloropropane	ND		2500	130	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
2-Butanone	ND		9900	2200	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
2-Chloroethyl vinyl ether	ND		9900	4900	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
2-Chlorotoluene	ND		500	120	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
2-Hexanone	ND		9900	1500	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
4-Chlorotoluene	ND		500	120	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
4-Methyl-2-pentanone	ND		9900	1400	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Acetone	ND		9900	4900	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Acetonitrile	ND		20000	3300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Acrolein	ND		25000	2800	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Acrylonitrile	ND		12000	2400	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>Benzene</b>	<b>1700</b>		500	130	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Bromobenzene	ND		500	100	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Bromochloromethane	ND		990	220	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Bromodichloromethane	ND		500	79	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Bromoform	ND		2500	650	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Bromomethane	ND	+	9900	3300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Carbon disulfide	ND		5000	200	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Carbon tetrachloride	ND		500	150	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Chlorobenzene	ND		500	130	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Chloroethane	ND		990	740	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Chloroform	ND		500	290	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Chloromethane	ND		9900	760	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
cis-1,2-Dichloroethene	ND		500	170	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
cis-1,3-Dichloropropene	ND		500	170	ug/Kg		11/06/20 16:24	11/10/20 19:54	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: CT1106**  
**Date Collected: 10/29/20 10:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cyclohexane</b>	<b>4800</b>	<b>J</b>	9900	1800	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Dibromochloromethane	ND		990	130	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Dibromomethane	ND		500	150	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Dichlorodifluoromethane	ND		990	220	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Diethyl ether	ND		9900	810	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Di-isopropyl ether (DIPE)	ND		500	250	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Ethanol	ND		120000	33000	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>Ethylbenzene</b>	<b>2500</b>		500	100	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Ethyl-t-butyl ether (ETBE)	ND		500	120	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Hexachloro-1,3-butadiene	ND		2500	820	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>Hexane</b>	<b>1500</b>	<b>J</b>	2500	800	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Iodomethane	ND		25000	11000	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Isobutyl alcohol	ND		25000	22000	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Isopropanol	ND		62000	30000	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>Isopropylbenzene</b>	<b>840</b>		500	300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>m,p-Xylene</b>	<b>16000</b>		990	230	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Methylene Chloride	ND		5000	1500	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Methyl-t-Butyl Ether (MTBE)	ND		990	93	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>Naphthalene</b>	<b>85000</b>		5000	2600	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>n-Butylbenzene</b>	<b>3200</b>		500	100	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>N-Propylbenzene</b>	<b>1700</b>		990	300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>o-Xylene</b>	<b>6100</b>		500	300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>p-Isopropyltoluene</b>	<b>1400</b>		500	350	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>sec-Butylbenzene</b>	<b>790</b>		500	300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Styrene	ND		500	350	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Tert-amyl-methyl ether (TAME)	ND		500	96	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
tert-Butyl alcohol (TBA)	ND		9900	3500	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
tert-Butylbenzene	ND		500	130	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Tetrachloroethene	ND		500	110	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Tetrahydrofuran	ND		9900	1900	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Thiophene	ND		2500	640	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>Toluene</b>	<b>8800</b>		500	300	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
trans-1,2-Dichloroethene	ND		500	150	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
trans-1,3-Dichloropropene	ND		990	140	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
trans-1,4-Dichloro-2-butene	ND		5000	1500	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Trichloroethene	ND		990	190	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Trichlorofluoromethane	ND		5000	140	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Vinyl acetate	ND		5000	1900	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
Vinyl chloride	ND		500	190	ug/Kg		11/06/20 16:24	11/10/20 19:54	50
<b>Xylenes, Total</b>	<b>22000</b>		1500	350	ug/Kg		11/06/20 16:24	11/10/20 19:54	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
3-Cyano-2,5-dimethylpyrazine	160000	T J N	ug/Kg		1.67	2435-47-4	11/06/20 16:24	11/10/20 19:54	50
Unknown	530000	T J	ug/Kg		1.72		11/06/20 16:24	11/10/20 19:54	50
Unknown	87000	T J	ug/Kg		1.89		11/06/20 16:24	11/10/20 19:54	50
Unknown	78000	T J	ug/Kg		2.29		11/06/20 16:24	11/10/20 19:54	50
Unknown	73000	T J	ug/Kg		2.72		11/06/20 16:24	11/10/20 19:54	50
Unknown	75000	T J	ug/Kg		2.85		11/06/20 16:24	11/10/20 19:54	50
Benzene, 1,2,3-trimethyl-	22000	T J N	ug/Kg		14.73	526-73-8	11/06/20 16:24	11/10/20 19:54	50
Unknown	19000	T J	ug/Kg		15.00		11/06/20 16:24	11/10/20 19:54	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: CT1106**  
**Date Collected: 10/29/20 10:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**  
**Matrix: Solid**

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Unknown	28000	T J	ug/Kg		15.72		11/06/20 16:24	11/10/20 19:54	50
Benzene, 1,2,4,5-tetramethyl-	36000	T J N	ug/Kg		16.66	95-93-2	11/06/20 16:24	11/10/20 19:54	50
Naphthalene, 1,6,7-trimethyl-	17000	T J N	ug/Kg		16.88	2245-38-7	11/06/20 16:24	11/10/20 19:54	50
Benzene, (1-methyl-1-butenyl)-	20000	T J N	ug/Kg		17.14	53172-84-2	11/06/20 16:24	11/10/20 19:54	50
Benzene, 1-(1,1-dimethylethyl)-4-ethenyl-	15000	T J N	ug/Kg		17.68	1746-23-2	11/06/20 16:24	11/10/20 19:54	50
1H-Indene, 2,3-dihydro-1,2-dimethyl-	19000	T J N	ug/Kg		18.07	17057-82-8	11/06/20 16:24	11/10/20 19:54	50
Benzene, 1,3,5-trimethyl-2-(1-methylethenyl)-	19000	T J N	ug/Kg		18.43	14679-13-1	11/06/20 16:24	11/10/20 19:54	50
Benzocycloheptatriene	220000	T J N	ug/Kg		18.64	264-09-5	11/06/20 16:24	11/10/20 19:54	50
Naphthalene, 2-methyl-	100000	T J N	ug/Kg		18.83	91-57-6	11/06/20 16:24	11/10/20 19:54	50
Biphenyl	56000	T J N	ug/Kg		19.43	92-52-4	11/06/20 16:24	11/10/20 19:54	50
Naphthalene, 1-ethyl-	75000	T J N	ug/Kg		19.68	1127-76-0	11/06/20 16:24	11/10/20 19:54	50
Naphthalene, 2,6-dimethyl-	120000	T J N	ug/Kg		19.82	581-42-0	11/06/20 16:24	11/10/20 19:54	50
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	99		71 - 155				11/06/20 16:24	11/10/20 19:54	50
4-Bromofluorobenzene (Surr)	101		80 - 120				11/06/20 16:24	11/10/20 19:54	50
Dibromofluoromethane (Surr)	87		79 - 133				11/06/20 16:24	11/10/20 19:54	50
Toluene-d8 (Surr)	102		80 - 120				11/06/20 16:24	11/10/20 19:54	50

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,1,1-Trichloroethane	ND		510	120	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,1,2,2-Tetrachloroethane	ND		1000	270	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5100	230	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,1,2-Trichloroethane	ND		510	230	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,1-Dichloroethane	ND		510	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,1-Dichloroethene	ND		510	130	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,1-Dichloropropene	ND		1000	200	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2,3-Trichlorobenzene	ND		1000	510	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2,3-Trichloropropane	ND		1000	210	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2,4-Trichlorobenzene	ND		1000	210	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>1,2,4-Trimethylbenzene</b>	<b>13000</b>		1000	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2-Dibromo-3-Chloropropane	ND		5100	3400	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2-Dibromoethane	ND		510	100	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2-Dichlorobenzene	ND		510	130	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2-Dichloroethane	ND		510	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,2-Dichloropropane	ND		510	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>1,3,5-Trimethylbenzene</b>	<b>5400</b>		1000	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,3-Butadiene	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,3-Dichlorobenzene	ND		510	130	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,3-Dichloropropane	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,4-Dichlorobenzene	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
1,4-Dioxane	ND		51000	15000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
2,2,4-Trimethylpentane	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
2,2-Dichloropropane	ND		2500	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	ND		10000	2300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
2-Chloroethyl vinyl ether	ND		10000	5000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
2-Chlorotoluene	ND		510	130	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
2-Hexanone	ND		10000	1600	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
4-Chlorotoluene	ND		510	120	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
4-Methyl-2-pentanone	ND		10000	1500	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Acetone	ND		10000	5000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Acetonitrile	ND		20000	3400	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Acrolein	ND		25000	2900	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Acrylonitrile	ND		13000	2500	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Benzene</b>	<b>1700</b>		510	130	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Bromobenzene	ND		510	110	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Bromochloromethane	ND		1000	220	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Bromodichloromethane	ND		510	80	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Bromoform	ND		2500	670	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Bromomethane	ND	*	10000	3300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Carbon disulfide	ND		5100	200	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Carbon tetrachloride	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Chlorobenzene	ND		510	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Chloroethane	ND		1000	760	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Chloroform	ND		510	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Chloromethane	ND		10000	780	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
cis-1,2-Dichloroethene	ND		510	170	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
cis-1,3-Dichloropropene	ND		510	180	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Cyclohexane</b>	<b>5200</b>	<b>J</b>	10000	1900	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Dibromochloromethane	ND		1000	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Dibromomethane	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Dichlorodifluoromethane	ND		1000	230	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Diethyl ether	ND		10000	830	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Di-isopropyl ether (DIPE)	ND		510	250	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Ethanol	ND		130000	33000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Ethylbenzene</b>	<b>2100</b>		510	100	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Ethyl-t-butyl ether (ETBE)	ND		510	120	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Hexachloro-1,3-butadiene	ND		2500	840	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Hexane</b>	<b>2000</b>	<b>J</b>	2500	820	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Iodomethane	ND		25000	11000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Isobutyl alcohol	ND		25000	23000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Isopropanol	ND		63000	30000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Isopropylbenzene</b>	<b>680</b>		510	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>m,p-Xylene</b>	<b>14000</b>		1000	240	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Methylene Chloride	ND		5100	1600	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Methyl-t-Butyl Ether (MTBE)	ND		1000	95	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Naphthalene</b>	<b>60000</b>		5100	2600	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>n-Butylbenzene</b>	<b>2900</b>		510	110	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>N-Propylbenzene</b>	<b>1400</b>		1000	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>o-Xylene</b>	<b>5000</b>		510	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>p-Isopropyltoluene</b>	<b>1300</b>		510	350	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>sec-Butylbenzene</b>	<b>700</b>		510	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Styrene	ND		510	350	ug/Kg		11/06/20 16:24	11/10/20 20:19	50

Eurofins Calscience LLC



# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		510	98	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
tert-Butyl alcohol (TBA)	ND		10000	3500	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
tert-Butylbenzene	ND		510	130	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Tetrachloroethene	ND		510	110	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Tetrahydrofuran	ND		10000	1900	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Thiophene	ND		2500	650	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Toluene</b>	<b>8000</b>		510	300	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
trans-1,2-Dichloroethene	ND		510	150	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
trans-1,3-Dichloropropene	ND		1000	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
trans-1,4-Dichloro-2-butene	ND		5100	1600	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Trichloroethene	ND		1000	200	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Trichlorofluoromethane	ND		5100	140	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Vinyl acetate	ND		5100	2000	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
Vinyl chloride	ND		510	190	ug/Kg		11/06/20 16:24	11/10/20 20:19	50
<b>Xylenes, Total</b>	<b>19000</b>		1500	360	ug/Kg		11/06/20 16:24	11/10/20 20:19	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	170000	T J	ug/Kg		1.66		11/06/20 16:24	11/10/20 20:19	50
Unknown	540000	T J	ug/Kg		1.72		11/06/20 16:24	11/10/20 20:19	50
Unknown	95000	T J	ug/Kg		1.89		11/06/20 16:24	11/10/20 20:19	50
Unknown	69000	T J	ug/Kg		2.09		11/06/20 16:24	11/10/20 20:19	50
Unknown	98000	T J	ug/Kg		2.29		11/06/20 16:24	11/10/20 20:19	50
Unknown	64000	T J	ug/Kg		2.72		11/06/20 16:24	11/10/20 20:19	50
Unknown	74000	T J	ug/Kg		2.85		11/06/20 16:24	11/10/20 20:19	50
Benzene, 1,2,3-trimethyl-	21000	T J N	ug/Kg		14.73	526-73-8	11/06/20 16:24	11/10/20 20:19	50
Unknown	25000	T J	ug/Kg		15.72		11/06/20 16:24	11/10/20 20:19	50
Benzene, 1,2,4,5-tetramethyl-	29000	T J N	ug/Kg		16.66	95-93-2	11/06/20 16:24	11/10/20 20:19	50
Unknown	18000	T J	ug/Kg		16.88		11/06/20 16:24	11/10/20 20:19	50
Unknown	17000	T J	ug/Kg		17.68		11/06/20 16:24	11/10/20 20:19	50
1H-Indene, 2,3-dihydro-1,2-dimethyl-	22000	T J N	ug/Kg		18.07	17057-82-8	11/06/20 16:24	11/10/20 20:19	50
Naphthalene, 2-methyl-	150000	T J N	ug/Kg		18.63	91-57-6	11/06/20 16:24	11/10/20 20:19	50
Benzene, cyclohexyl-	24000	T J N	ug/Kg		18.68	827-52-1	11/06/20 16:24	11/10/20 20:19	50
Naphthalene, 1-methyl-	85000	T J N	ug/Kg		18.83	90-12-0	11/06/20 16:24	11/10/20 20:19	50
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl-	23000	T J N	ug/Kg		18.98	475-03-6	11/06/20 16:24	11/10/20 20:19	50
Biphenyl	47000	T J N	ug/Kg		19.43	92-52-4	11/06/20 16:24	11/10/20 20:19	50
Naphthalene, 1,3-dimethyl-	64000	T J N	ug/Kg		19.68	575-41-7	11/06/20 16:24	11/10/20 20:19	50
Naphthalene, 2,6-dimethyl-	97000	T J N	ug/Kg		19.82	581-42-0	11/06/20 16:24	11/10/20 20:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		71 - 155	11/06/20 16:24	11/10/20 20:19	50
4-Bromofluorobenzene (Surr)	101		80 - 120	11/06/20 16:24	11/10/20 20:19	50
Dibromofluoromethane (Surr)	88		79 - 133	11/06/20 16:24	11/10/20 20:19	50
Toluene-d8 (Surr)	102		80 - 120	11/06/20 16:24	11/10/20 20:19	50

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		490	140	ug/Kg		11/06/20 16:24	11/10/20 19:29	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		490	110	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,1,2,2-Tetrachloroethane	ND		980	270	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4900	230	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,1,2-Trichloroethane	ND		490	230	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,1-Dichloroethane	ND		490	140	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,1-Dichloroethene	ND		490	130	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,1-Dichloropropene	ND		980	190	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2,3-Trichlorobenzene	ND		980	490	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2,3-Trichloropropane	ND		980	210	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2,4-Trichlorobenzene	ND		980	200	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>1,2,4-Trimethylbenzene</b>	<b>15000</b>		980	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2-Dibromo-3-Chloropropane	ND		4900	3300	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2-Dibromoethane	ND		490	100	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2-Dichlorobenzene	ND		490	120	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2-Dichloroethane	ND		490	140	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,2-Dichloropropane	ND		490	140	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>1,3,5-Trimethylbenzene</b>	<b>6400</b>		980	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,3-Butadiene	ND		490	150	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,3-Dichlorobenzene	ND		490	120	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,3-Dichloropropane	ND		490	140	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,4-Dichlorobenzene	ND		490	150	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
1,4-Dioxane	ND		49000	15000	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
2,2,4-Trimethylpentane	ND		490	150	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
2,2-Dichloropropane	ND		2500	130	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
2-Butanone	ND		9800	2200	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
2-Chloroethyl vinyl ether	ND		9800	4800	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
2-Chlorotoluene	ND		490	120	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
2-Hexanone	ND		9800	1500	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
4-Chlorotoluene	ND		490	120	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
4-Methyl-2-pentanone	ND		9800	1400	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Acetone	ND		9800	4800	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Acetonitrile	ND		20000	3300	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Acrolein	ND		25000	2800	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Acrylonitrile	ND		12000	2400	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Benzene</b>	<b>1600</b>		490	130	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Bromobenzene	ND		490	100	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Bromochloromethane	ND		980	220	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Bromodichloromethane	ND		490	78	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Bromoform	ND		2500	650	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Bromomethane	ND	+	9800	3200	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Carbon disulfide	ND		4900	200	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Carbon tetrachloride	ND		490	150	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Chlorobenzene	ND		490	130	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Chloroethane	ND		980	740	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Chloroform	ND		490	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Chloromethane	ND		9800	750	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
cis-1,2-Dichloroethene	ND		490	170	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
cis-1,3-Dichloropropene	ND		490	170	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Cyclohexane</b>	<b>4700</b>	<b>J</b>	9800	1800	ug/Kg		11/06/20 16:24	11/10/20 19:29	50

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		980	130	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Dibromomethane	ND		490	150	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Dichlorodifluoromethane	ND		980	220	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Diethyl ether	ND		9800	810	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Di-isopropyl ether (DIPE)	ND		490	250	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Ethanol	ND		120000	32000	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Ethylbenzene</b>	<b>2400</b>		490	100	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Ethyl-t-butyl ether (ETBE)	ND		490	120	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Hexachloro-1,3-butadiene	ND		2500	820	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Hexane</b>	<b>1500 J</b>		2500	800	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Iodomethane	ND		25000	11000	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Isobutyl alcohol	ND		25000	22000	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Isopropanol	ND		61000	29000	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Isopropylbenzene</b>	<b>760</b>		490	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>m,p-Xylene</b>	<b>17000</b>		980	230	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Methylene Chloride	ND		4900	1500	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Methyl-t-Butyl Ether (MTBE)	ND		980	92	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Naphthalene</b>	<b>91000</b>		4900	2600	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>n-Butylbenzene</b>	<b>3200</b>		490	100	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>N-Propylbenzene</b>	<b>1600</b>		980	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>o-Xylene</b>	<b>5900</b>		490	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>p-Isopropyltoluene</b>	<b>1400</b>		490	340	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>sec-Butylbenzene</b>	<b>710</b>		490	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Styrene	ND		490	340	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Tert-amyl-methyl ether (TAME)	ND		490	95	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
tert-Butyl alcohol (TBA)	ND		9800	3400	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
tert-Butylbenzene	ND		490	120	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Tetrachloroethene	ND		490	110	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Tetrahydrofuran	ND		9800	1900	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Thiophene	ND		2500	630	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Toluene</b>	<b>8500</b>		490	290	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
trans-1,2-Dichloroethene	ND		490	150	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
trans-1,3-Dichloropropene	ND		980	140	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
trans-1,4-Dichloro-2-butene	ND		4900	1500	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Trichloroethene	ND		980	190	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Trichlorofluoromethane	ND		4900	130	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Vinyl acetate	ND		4900	1900	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
Vinyl chloride	ND		490	190	ug/Kg		11/06/20 16:24	11/10/20 19:29	50
<b>Xylenes, Total</b>	<b>23000</b>		1500	350	ug/Kg		11/06/20 16:24	11/10/20 19:29	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	140000	T J	ug/Kg		1.67		11/06/20 16:24	11/10/20 19:29	50
Unknown	450000	T J	ug/Kg		1.72		11/06/20 16:24	11/10/20 19:29	50
Unknown	87000	T J	ug/Kg		1.89		11/06/20 16:24	11/10/20 19:29	50
Unknown	70000	T J	ug/Kg		2.09		11/06/20 16:24	11/10/20 19:29	50
Butane	87000	T J N	ug/Kg		2.28	106-97-8	11/06/20 16:24	11/10/20 19:29	50
Unknown	72000	T J	ug/Kg		2.85		11/06/20 16:24	11/10/20 19:29	50
Cyclohexane, methyl-	12000	T J N	ug/Kg		8.74	108-87-2	11/06/20 16:24	11/10/20 19:29	50
Benzene, 1-ethyl-3-methyl-	12000	T J N	ug/Kg		13.62	620-14-4	11/06/20 16:24	11/10/20 19:29	50
Benzene, 1-methyl-2-(1-methylethyl)-	26000	T J N	ug/Kg		16.66	527-84-4	11/06/20 16:24	11/10/20 19:29	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Benzene, 1-(1-methylethenyl)-3-(1-methylethyl)-	16000	T J N	ug/Kg		17.68	1129-29-9	11/06/20 16:24	11/10/20 19:29	50
1H-Indene, 2,3-dihydro-4,7-dimethyl-	26000	T J N	ug/Kg		18.07	6682-71-9	11/06/20 16:24	11/10/20 19:29	50
Naphthalene, 1,2,3,4-tetrahydro-1,8-dimethyl-	15000	T J N	ug/Kg		18.43	25419-33-4	11/06/20 16:24	11/10/20 19:29	50
Naphthalene, 2-methyl-	230000	T J N	ug/Kg		18.64	91-57-6	11/06/20 16:24	11/10/20 19:29	50
Benzene, cyclohexyl-	29000	T J N	ug/Kg		18.68	827-52-1	11/06/20 16:24	11/10/20 19:29	50
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl-	13000	T J N	ug/Kg		18.75	475-03-6	11/06/20 16:24	11/10/20 19:29	50
Naphthalene, 2-methyl-	110000	T J N	ug/Kg		18.84	91-57-6	11/06/20 16:24	11/10/20 19:29	50
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl-	16000	T J N	ug/Kg		18.98	475-03-6	11/06/20 16:24	11/10/20 19:29	50
Biphenyl	60000	T J N	ug/Kg		19.44	92-52-4	11/06/20 16:24	11/10/20 19:29	50
Naphthalene, 1-ethyl-	83000	T J N	ug/Kg		19.68	1127-76-0	11/06/20 16:24	11/10/20 19:29	50
Naphthalene, 2,7-dimethyl-	130000	T J N	ug/Kg		19.82	582-16-1	11/06/20 16:24	11/10/20 19:29	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	101		71 - 155				11/06/20 16:24	11/10/20 19:29	50
4-Bromofluorobenzene (Surr)	102		80 - 120				11/06/20 16:24	11/10/20 19:29	50
Dibromofluoromethane (Surr)	89		79 - 133				11/06/20 16:24	11/10/20 19:29	50
Toluene-d8 (Surr)	102		80 - 120				11/06/20 16:24	11/10/20 19:29	50

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,1,1-Trichloroethane	ND		43	10	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,1,2,2-Tetrachloroethane	ND		87	24	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		430	20	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,1,2-Trichloroethane	ND		43	20	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,1-Dichloroethane	ND		43	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,1-Dichloroethene	ND		43	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,1-Dichloropropene	ND		87	17	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2,3-Trichlorobenzene	ND		87	43	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2,3-Trichloropropane	ND		87	18	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2,4-Trichlorobenzene	ND		87	18	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2,4-Trimethylbenzene	ND		87	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2-Dibromo-3-Chloropropane	ND		430	290	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2-Dibromoethane	ND		43	8.9	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2-Dichlorobenzene	ND		43	11	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2-Dichloroethane	ND		43	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,2-Dichloropropane	ND		43	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,3,5-Trimethylbenzene	ND		87	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,3-Butadiene	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,3-Dichlorobenzene	ND		43	11	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,3-Dichloropropane	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,4-Dichlorobenzene	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
1,4-Dioxane	ND		4300	1300	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
2,2,4-Trimethylpentane	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		220	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
2-Butanone	ND		870	200	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
2-Chloroethyl vinyl ether	ND		870	430	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
2-Chlorotoluene	ND		43	11	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
2-Hexanone	ND		870	130	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
2-Methyl-2-butanol (TAA)	ND		2200	920	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
4-Chlorotoluene	ND		43	10	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
4-Methyl-2-pentanone	ND		870	130	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Acetone	ND		870	430	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Acetonitrile	ND		1700	290	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Acrolein	ND	+	2200	250	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Acrylonitrile	ND		1100	210	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Benzene	ND		43	11	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Bromobenzene	ND		43	9.0	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Bromochloromethane	ND		87	19	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Bromodichloromethane	ND		43	6.9	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Bromoform	ND		220	57	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Bromomethane	ND		870	290	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Carbon disulfide	ND		430	17	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Carbon tetrachloride	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Chlorobenzene	ND		43	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Chloroethane	ND		87	65	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Chloroform	ND		43	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Chloromethane	ND		870	67	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
cis-1,2-Dichloroethene	ND		43	15	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
cis-1,3-Dichloropropene	ND		43	15	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Cyclohexane	ND		870	160	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Dibromochloromethane	ND		87	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Dibromomethane	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Dichlorodifluoromethane	ND		87	20	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Diethyl ether	ND		870	71	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Di-isopropyl ether (DIPE)	ND		43	22	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Ethanol	ND		11000	2900	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Ethylbenzene	ND		43	9.0	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Ethyl-t-butyl ether (ETBE)	ND		43	10	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Hexachloro-1,3-butadiene	ND		220	72	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Hexane	ND		220	71	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Iodomethane	ND		2200	940	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Isobutyl alcohol	ND		2200	2000	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Isopropanol	ND		5400	2600	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Isopropylbenzene	ND		43	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
m,p-Xylene	ND		87	21	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Methylene Chloride	ND		430	140	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Methyl-t-Butyl Ether (MTBE)	ND		87	8.1	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Naphthalene	ND		430	230	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
<b>n-Butylbenzene</b>	<b>31</b>	<b>J</b>	43	9.1	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
N-Propylbenzene	ND		87	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
o-Xylene	ND		43	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
p-Isopropyltoluene	ND		43	30	ug/Kg		10/29/20 19:56	11/07/20 05:02	50

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		43	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Styrene	ND		43	30	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Tert-amyl-methyl ether (TAME)	ND		43	8.4	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
tert-Butyl alcohol (TBA)	ND		870	300	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
tert-Butylbenzene	ND		43	11	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Tetrachloroethene	ND		43	9.7	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Tetrahydrofuran	ND		870	160	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Thiophene	ND		220	56	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Toluene	ND		43	26	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
trans-1,2-Dichloroethene	ND		43	13	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
trans-1,3-Dichloropropene	ND		87	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
trans-1,4-Dichloro-2-butene	ND		430	130	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Trichloroethene	ND		87	17	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Trichlorofluoromethane	ND		430	12	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Vinyl acetate	ND		430	170	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Vinyl chloride	ND		43	16	ug/Kg		10/29/20 19:56	11/07/20 05:02	50
Xylenes, Total	ND		130	31	ug/Kg		10/29/20 19:56	11/07/20 05:02	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1-Propene, 2-methyl-	1100	T J N	ug/Kg		2.20	115-11-7	10/29/20 19:56	11/07/20 05:02	50
Unknown	1800	T J	ug/Kg		2.53		10/29/20 19:56	11/07/20 05:02	50
Unknown	2600	T J	ug/Kg		2.64		10/29/20 19:56	11/07/20 05:02	50
Unknown	1700	T J	ug/Kg		2.72		10/29/20 19:56	11/07/20 05:02	50
Unknown	1300	T J	ug/Kg		2.79		10/29/20 19:56	11/07/20 05:02	50
Unknown	1300	T J	ug/Kg		2.84		10/29/20 19:56	11/07/20 05:02	50
Unknown	1100	T J	ug/Kg		4.47		10/29/20 19:56	11/07/20 05:02	50
trans-Decalin, 2-methyl-	270	T J N	ug/Kg		15.77	1000152-47-3	10/29/20 19:56	11/07/20 05:02	50
Benzene, 1,2,4,5-tetramethyl-	450	T J N	ug/Kg		16.52	95-93-2	10/29/20 19:56	11/07/20 05:02	50
Unknown	510	T J	ug/Kg		16.73		10/29/20 19:56	11/07/20 05:02	50
1H-Indene, 2,3-dihydro-4,7-dimethyl-	310	T J N	ug/Kg		17.01	6682-71-9	10/29/20 19:56	11/07/20 05:02	50
Unknown	270	T J	ug/Kg		17.72		10/29/20 19:56	11/07/20 05:02	50
1H-Indene, 2,3-dihydro-1,3-dimethyl-	340	T J N	ug/Kg		18.06	4175-53-5	10/29/20 19:56	11/07/20 05:02	50
Benzene, 2,4-dimethyl-1-(1-methylethyl)-	260	T J N	ug/Kg		18.23	4706-89-2	10/29/20 19:56	11/07/20 05:02	50
Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl-	270	T J N	ug/Kg		18.37	4175-54-6	10/29/20 19:56	11/07/20 05:02	50
Benzene, 1,3,5-trimethyl-2-(1-methylethenyl)-	310	T J N	ug/Kg		18.46	14679-13-1	10/29/20 19:56	11/07/20 05:02	50
Benzene, cyclohexyl-	640	T J N	ug/Kg		18.72	827-52-1	10/29/20 19:56	11/07/20 05:02	50
Naphthalene, 1-methyl-	960	T J N	ug/Kg		18.88	90-12-0	10/29/20 19:56	11/07/20 05:02	50
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl-	270	T J N	ug/Kg		19.15	475-03-6	10/29/20 19:56	11/07/20 05:02	50
Unknown	400	T J	ug/Kg		19.45		10/29/20 19:56	11/07/20 05:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		71 - 155	10/29/20 19:56	11/07/20 05:02	50
4-Bromofluorobenzene (Surr)	104		80 - 120	10/29/20 19:56	11/07/20 05:02	50
Dibromofluoromethane (Surr)	100		79 - 133	10/29/20 19:56	11/07/20 05:02	50
Toluene-d8 (Surr)	101		80 - 120	10/29/20 19:56	11/07/20 05:02	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		39	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,1,1-Trichloroethane	ND		39	9.1	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,1,2,2-Tetrachloroethane	ND		78	21	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		390	18	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,1,2-Trichloroethane	ND		39	18	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,1-Dichloroethane	ND		39	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,1-Dichloroethene	ND		39	10	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,1-Dichloropropene	ND		78	15	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2,3-Trichlorobenzene	ND		78	39	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2,3-Trichloropropane	ND		78	16	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2,4-Trichlorobenzene	ND		78	16	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2,4-Trimethylbenzene	ND		78	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2-Dibromo-3-Chloropropane	ND		390	260	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2-Dibromoethane	ND		39	8.0	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
<b>1,2-Dichlorobenzene</b>	<b>15</b>	<b>J</b>	39	9.7	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2-Dichloroethane	ND		39	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,2-Dichloropropane	ND		39	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,3,5-Trimethylbenzene	ND		78	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,3-Butadiene	ND		39	12	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,3-Dichlorobenzene	ND		39	9.8	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,3-Dichloropropane	ND		39	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,4-Dichlorobenzene	ND		39	12	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
1,4-Dioxane	ND		3900	1200	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
2,2,4-Trimethylpentane	ND		39	12	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
2,2-Dichloropropane	ND		190	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
2-Butanone	ND		780	180	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
2-Chloroethyl vinyl ether	ND		780	380	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
2-Chlorotoluene	ND		39	9.8	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
2-Hexanone	ND		780	120	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
2-Methyl-2-butanol (TAA)	ND		1900	820	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
4-Chlorotoluene	ND		39	9.4	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
4-Methyl-2-pentanone	ND		780	110	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Acetone	ND		780	380	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Acetonitrile	ND		1600	260	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Acrolein	ND	*+	1900	220	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Acrylonitrile	ND		970	190	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Benzene	ND		39	10	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Bromobenzene	ND		39	8.1	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Bromochloromethane	ND		78	17	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Bromodichloromethane	ND		39	6.2	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Bromoform	ND		190	51	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Bromomethane	ND		780	260	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Carbon disulfide	ND		390	16	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Carbon tetrachloride	ND		39	12	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Chlorobenzene	ND		39	10	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Chloroethane	ND		78	58	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Chloroform	ND		39	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Chloromethane	ND		780	60	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
cis-1,2-Dichloroethene	ND		39	13	ug/Kg		10/29/20 19:56	11/07/20 04:37	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		39	14	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Cyclohexane	ND		780	140	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Dibromochloromethane	ND		78	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Dibromomethane	ND		39	12	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Dichlorodifluoromethane	ND		78	18	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Diethyl ether	ND		780	64	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Di-isopropyl ether (DIPE)	ND		39	19	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Ethanol	ND		9700	2600	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Ethylbenzene	ND		39	8.0	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Ethyl-t-butyl ether (ETBE)	ND		39	9.2	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Hexachloro-1,3-butadiene	ND		190	65	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Hexane	ND		190	63	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Iodomethane	ND		1900	840	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Isobutyl alcohol	ND		1900	1800	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Isopropanol	ND		4900	2300	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Isopropylbenzene	ND		39	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
m,p-Xylene	ND		78	18	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Methylene Chloride	ND		390	120	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Methyl-t-Butyl Ether (MTBE)	ND		78	7.3	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Naphthalene	ND		390	200	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
<b>n-Butylbenzene</b>	<b>22</b>	<b>J</b>	39	8.2	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
N-Propylbenzene	ND		78	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
o-Xylene	ND		39	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
p-Isopropyltoluene	ND		39	27	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
sec-Butylbenzene	ND		39	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Styrene	ND		39	27	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Tert-amyl-methyl ether (TAME)	ND		39	7.5	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
tert-Butyl alcohol (TBA)	ND		780	270	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
tert-Butylbenzene	ND		39	9.9	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Tetrachloroethene	ND		39	8.7	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Tetrahydrofuran	ND		780	150	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Thiophene	ND		190	50	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Toluene	ND		39	23	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
trans-1,2-Dichloroethene	ND		39	12	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
trans-1,3-Dichloropropene	ND		78	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
trans-1,4-Dichloro-2-butene	ND		390	120	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Trichloroethene	ND		78	15	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Trichlorofluoromethane	ND		390	11	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Vinyl acetate	ND		390	150	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Vinyl chloride	ND		39	15	ug/Kg		10/29/20 19:56	11/07/20 04:37	50
Xylenes, Total	ND		120	27	ug/Kg		10/29/20 19:56	11/07/20 04:37	50

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	2400	T J	ug/Kg		2.52		10/29/20 19:56	11/07/20 04:37	50
Unknown	4900	T J	ug/Kg		2.59		10/29/20 19:56	11/07/20 04:37	50
Unknown	5400	T J	ug/Kg		2.63		10/29/20 19:56	11/07/20 04:37	50
Unknown	340	T J	ug/Kg		12.73		10/29/20 19:56	11/07/20 04:37	50
Unknown	920	T J	ug/Kg		13.29		10/29/20 19:56	11/07/20 04:37	50
Cyclohexane, 1,4-dimethyl-	320	T J N	ug/Kg		13.57	589-90-2	10/29/20 19:56	11/07/20 04:37	50
Decane, 2,6,7-trimethyl-	280	T J N	ug/Kg		13.97	62108-25-2	10/29/20 19:56	11/07/20 04:37	50

Eurofins Calscience LLC



# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Dodecane, 3-methyl-	510	T J N	ug/Kg		15.09	17312-57-1	10/29/20 19:56	11/07/20 04:37	50
Unknown	290	T J	ug/Kg		15.19		10/29/20 19:56	11/07/20 04:37	50
1-Octene, 6-methyl-	400	T J N	ug/Kg		15.34	13151-10-5	10/29/20 19:56	11/07/20 04:37	50
Naphthalene, decahydro-2-methyl-	370	T J N	ug/Kg		15.77	2958-76-1	10/29/20 19:56	11/07/20 04:37	50
Benzene, 1-methyl-3-(1-methylethyl)-	540	T J N	ug/Kg		16.52	535-77-3	10/29/20 19:56	11/07/20 04:37	50
Unknown	580	T J	ug/Kg		16.73		10/29/20 19:56	11/07/20 04:37	50
Unknown	380	T J	ug/Kg		17.55		10/29/20 19:56	11/07/20 04:37	50
Unknown	320	T J	ug/Kg		17.73		10/29/20 19:56	11/07/20 04:37	50
Naphthalene, 1-ethyl-1,2,3,4-tetrahydro-	300	T J N	ug/Kg		18.06	13556-58-6	10/29/20 19:56	11/07/20 04:37	50
Naphthalene, 2-methyl-	320	T J N	ug/Kg		18.68	91-57-6	10/29/20 19:56	11/07/20 04:37	50
Benzene, cyclohexyl-	370	T J N	ug/Kg		18.72	827-52-1	10/29/20 19:56	11/07/20 04:37	50
Naphthalene, 2-methyl-	470	T J N	ug/Kg		18.89	91-57-6	10/29/20 19:56	11/07/20 04:37	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	102		71 - 155				10/29/20 19:56	11/07/20 04:37	50
4-Bromofluorobenzene (Surr)	99		80 - 120				10/29/20 19:56	11/07/20 04:37	50
Dibromofluoromethane (Surr)	99		79 - 133				10/29/20 19:56	11/07/20 04:37	50
Toluene-d8 (Surr)	102		80 - 120				10/29/20 19:56	11/07/20 04:37	50

**Client Sample ID: EB-102920**  
**Date Collected: 10/29/20 11:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/11/20 01:17	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/11/20 01:17	1
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/11/20 01:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/11/20 01:17	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/11/20 01:17	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/11/20 01:17	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/11/20 01:17	1
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/11/20 01:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/11/20 01:17	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/11/20 01:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/11/20 01:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 01:17	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/11/20 01:17	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/11/20 01:17	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/11/20 01:17	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/11/20 01:17	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/11/20 01:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 01:17	1
1,3-Butadiene	ND		25	3.5	ug/L			11/11/20 01:17	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/11/20 01:17	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/11/20 01:17	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/11/20 01:17	1
1,4-Dioxane	ND		100	25	ug/L			11/11/20 01:17	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/11/20 01:17	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/11/20 01:17	1
2-Butanone	ND		20	3.6	ug/L			11/11/20 01:17	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: EB-102920**  
**Date Collected: 10/29/20 11:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/11/20 01:17	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/11/20 01:17	1
2-Hexanone	ND		10	3.1	ug/L			11/11/20 01:17	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/11/20 01:17	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/11/20 01:17	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/11/20 01:17	1
Acetone	ND		20	10	ug/L			11/11/20 01:17	1
Acetonitrile	ND		50	4.7	ug/L			11/11/20 01:17	1
Acrolein	ND		50	6.3	ug/L			11/11/20 01:17	1
Acrylonitrile	ND		20	4.0	ug/L			11/11/20 01:17	1
Benzene	ND		0.50	0.20	ug/L			11/11/20 01:17	1
Bromobenzene	ND		1.0	0.30	ug/L			11/11/20 01:17	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/11/20 01:17	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/11/20 01:17	1
Bromoform	ND		5.0	1.5	ug/L			11/11/20 01:17	1
Bromomethane	ND		25	15	ug/L			11/11/20 01:17	1
Carbon disulfide	ND		10	0.40	ug/L			11/11/20 01:17	1
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/11/20 01:17	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/11/20 01:17	1
Chloroethane	ND		5.0	2.4	ug/L			11/11/20 01:17	1
Chloroform	ND		1.0	0.50	ug/L			11/11/20 01:17	1
Chloromethane	ND		10	2.3	ug/L			11/11/20 01:17	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/11/20 01:17	1
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/11/20 01:17	1
Cyclohexane	ND		10	3.7	ug/L			11/11/20 01:17	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/11/20 01:17	1
Dibromomethane	ND		1.0	0.38	ug/L			11/11/20 01:17	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/11/20 01:17	1
Diethyl ether	ND		10	1.5	ug/L			11/11/20 01:17	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/11/20 01:17	1
Ethanol	ND		100	60	ug/L			11/11/20 01:17	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/11/20 01:17	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/11/20 01:17	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/11/20 01:17	1
Hexane	ND		5.0	2.3	ug/L			11/11/20 01:17	1
Iodomethane	ND		50	32	ug/L			11/11/20 01:17	1
Isobutyl alcohol	ND		50	42	ug/L			11/11/20 01:17	1
Isopropanol	ND		130	60	ug/L			11/11/20 01:17	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/11/20 01:17	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/11/20 01:17	1
Methylene Chloride	ND		10	4.0	ug/L			11/11/20 01:17	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/11/20 01:17	1
Naphthalene	ND		10	5.0	ug/L			11/11/20 01:17	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 01:17	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/11/20 01:17	1
o-Xylene	ND		1.0	0.26	ug/L			11/11/20 01:17	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/11/20 01:17	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 01:17	1
Styrene	ND		1.0	0.38	ug/L			11/11/20 01:17	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: EB-102920**  
**Date Collected: 10/29/20 11:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/11/20 01:17	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/11/20 01:17	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/11/20 01:17	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/11/20 01:17	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/11/20 01:17	1
Thiophene	ND		10	0.90	ug/L			11/11/20 01:17	1
Toluene	ND		1.0	0.34	ug/L			11/11/20 01:17	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/11/20 01:17	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/11/20 01:17	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/11/20 01:17	1
Trichloroethene	ND		1.0	0.35	ug/L			11/11/20 01:17	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/11/20 01:17	1
Vinyl acetate	ND		10	4.6	ug/L			11/11/20 01:17	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/11/20 01:17	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/11/20 01:17	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	990	T J	ug/L		1.38			11/11/20 01:17	1
Unknown	25	T J	ug/L		1.88			11/11/20 01:17	1
Unknown	60	T J	ug/L		1.96			11/11/20 01:17	1
Unknown	38	T J	ug/L		2.09			11/11/20 01:17	1
Unknown	36	T J	ug/L		3.15			11/11/20 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 129		11/11/20 01:17	1
4-Bromofluorobenzene (Surr)	98		77 - 120		11/11/20 01:17	1
Dibromofluoromethane (Surr)	95		80 - 128		11/11/20 01:17	1
Toluene-d8 (Surr)	100		80 - 120		11/11/20 01:17	1

**Client Sample ID: TB1**  
**Date Collected: 10/29/20 10:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-12**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/11/20 01:44	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/11/20 01:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/11/20 01:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/11/20 01:44	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/11/20 01:44	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/11/20 01:44	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/11/20 01:44	1
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/11/20 01:44	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/11/20 01:44	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/11/20 01:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/11/20 01:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 01:44	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/11/20 01:44	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/11/20 01:44	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/11/20 01:44	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/11/20 01:44	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/11/20 01:44	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB1**  
**Date Collected: 10/29/20 10:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-12**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 01:44	1
1,3-Butadiene	ND		25	3.5	ug/L			11/11/20 01:44	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/11/20 01:44	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/11/20 01:44	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/11/20 01:44	1
1,4-Dioxane	ND		100	25	ug/L			11/11/20 01:44	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/11/20 01:44	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/11/20 01:44	1
2-Butanone	ND		20	3.6	ug/L			11/11/20 01:44	1
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/11/20 01:44	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/11/20 01:44	1
2-Hexanone	ND		10	3.1	ug/L			11/11/20 01:44	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/11/20 01:44	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/11/20 01:44	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/11/20 01:44	1
Acetone	ND		20	10	ug/L			11/11/20 01:44	1
Acetonitrile	ND		50	4.7	ug/L			11/11/20 01:44	1
Acrolein	ND		50	6.3	ug/L			11/11/20 01:44	1
Acrylonitrile	ND		20	4.0	ug/L			11/11/20 01:44	1
Benzene	ND		0.50	0.20	ug/L			11/11/20 01:44	1
Bromobenzene	ND		1.0	0.30	ug/L			11/11/20 01:44	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/11/20 01:44	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/11/20 01:44	1
Bromoform	ND		5.0	1.5	ug/L			11/11/20 01:44	1
Bromomethane	ND		25	15	ug/L			11/11/20 01:44	1
Carbon disulfide	ND		10	0.40	ug/L			11/11/20 01:44	1
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/11/20 01:44	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/11/20 01:44	1
Chloroethane	ND		5.0	2.4	ug/L			11/11/20 01:44	1
Chloroform	ND		1.0	0.50	ug/L			11/11/20 01:44	1
Chloromethane	ND		10	2.3	ug/L			11/11/20 01:44	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/11/20 01:44	1
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/11/20 01:44	1
Cyclohexane	ND		10	3.7	ug/L			11/11/20 01:44	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/11/20 01:44	1
Dibromomethane	ND		1.0	0.38	ug/L			11/11/20 01:44	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/11/20 01:44	1
Diethyl ether	ND		10	1.5	ug/L			11/11/20 01:44	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/11/20 01:44	1
Ethanol	ND		100	60	ug/L			11/11/20 01:44	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/11/20 01:44	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/11/20 01:44	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/11/20 01:44	1
Hexane	ND		5.0	2.3	ug/L			11/11/20 01:44	1
Iodomethane	ND		50	32	ug/L			11/11/20 01:44	1
Isobutyl alcohol	ND		50	42	ug/L			11/11/20 01:44	1
Isopropanol	ND		130	60	ug/L			11/11/20 01:44	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/11/20 01:44	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/11/20 01:44	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB1**  
**Date Collected: 10/29/20 10:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-12**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		10	4.0	ug/L			11/11/20 01:44	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/11/20 01:44	1
Naphthalene	ND		10	5.0	ug/L			11/11/20 01:44	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 01:44	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/11/20 01:44	1
o-Xylene	ND		1.0	0.26	ug/L			11/11/20 01:44	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/11/20 01:44	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 01:44	1
Styrene	ND		1.0	0.38	ug/L			11/11/20 01:44	1
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/11/20 01:44	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/11/20 01:44	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/11/20 01:44	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/11/20 01:44	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/11/20 01:44	1
Thiophene	ND		10	0.90	ug/L			11/11/20 01:44	1
Toluene	ND		1.0	0.34	ug/L			11/11/20 01:44	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/11/20 01:44	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/11/20 01:44	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/11/20 01:44	1
Trichloroethene	ND		1.0	0.35	ug/L			11/11/20 01:44	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/11/20 01:44	1
Vinyl acetate	ND		10	4.6	ug/L			11/11/20 01:44	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/11/20 01:44	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/11/20 01:44	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	830	T J	ug/L		1.38			11/11/20 01:44	1
Unknown	160	T J	ug/L		1.61			11/11/20 01:44	1
Unknown	74	T J	ug/L		1.96			11/11/20 01:44	1
Unknown	29	T J	ug/L		2.12			11/11/20 01:44	1
Unknown	28	T J	ug/L		2.98			11/11/20 01:44	1
Unknown	27	T J	ug/L		3.15			11/11/20 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 129		11/11/20 01:44	1
4-Bromofluorobenzene (Surr)	97		77 - 120		11/11/20 01:44	1
Dibromofluoromethane (Surr)	94		80 - 128		11/11/20 01:44	1
Toluene-d8 (Surr)	100		80 - 120		11/11/20 01:44	1

**Client Sample ID: TB2**  
**Date Collected: 10/29/20 10:51**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-13**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/11/20 00:50	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/11/20 00:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/11/20 00:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/11/20 00:50	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/11/20 00:50	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/11/20 00:50	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/11/20 00:50	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB2**  
**Date Collected: 10/29/20 10:51**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-13**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/11/20 00:50	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/11/20 00:50	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/11/20 00:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/11/20 00:50	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 00:50	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/11/20 00:50	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/11/20 00:50	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/11/20 00:50	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/11/20 00:50	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/11/20 00:50	1
1,3,5-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 00:50	1
1,3-Butadiene	ND		25	3.5	ug/L			11/11/20 00:50	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/11/20 00:50	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/11/20 00:50	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/11/20 00:50	1
1,4-Dioxane	ND		100	25	ug/L			11/11/20 00:50	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/11/20 00:50	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/11/20 00:50	1
2-Butanone	ND		20	3.6	ug/L			11/11/20 00:50	1
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/11/20 00:50	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/11/20 00:50	1
2-Hexanone	ND		10	3.1	ug/L			11/11/20 00:50	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/11/20 00:50	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/11/20 00:50	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/11/20 00:50	1
Acetone	ND		20	10	ug/L			11/11/20 00:50	1
Acetonitrile	ND		50	4.7	ug/L			11/11/20 00:50	1
Acrolein	ND		50	6.3	ug/L			11/11/20 00:50	1
Acrylonitrile	ND		20	4.0	ug/L			11/11/20 00:50	1
Benzene	ND		0.50	0.20	ug/L			11/11/20 00:50	1
Bromobenzene	ND		1.0	0.30	ug/L			11/11/20 00:50	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/11/20 00:50	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/11/20 00:50	1
Bromoform	ND		5.0	1.5	ug/L			11/11/20 00:50	1
Bromomethane	ND		25	15	ug/L			11/11/20 00:50	1
Carbon disulfide	ND		10	0.40	ug/L			11/11/20 00:50	1
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/11/20 00:50	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/11/20 00:50	1
Chloroethane	ND		5.0	2.4	ug/L			11/11/20 00:50	1
Chloroform	ND		1.0	0.50	ug/L			11/11/20 00:50	1
Chloromethane	ND		10	2.3	ug/L			11/11/20 00:50	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/11/20 00:50	1
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/11/20 00:50	1
Cyclohexane	ND		10	3.7	ug/L			11/11/20 00:50	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/11/20 00:50	1
Dibromomethane	ND		1.0	0.38	ug/L			11/11/20 00:50	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/11/20 00:50	1
Diethyl ether	ND		10	1.5	ug/L			11/11/20 00:50	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/11/20 00:50	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB2**  
**Date Collected: 10/29/20 10:51**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-13**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		100	60	ug/L			11/11/20 00:50	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/11/20 00:50	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/11/20 00:50	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/11/20 00:50	1
Hexane	ND		5.0	2.3	ug/L			11/11/20 00:50	1
Iodomethane	ND		50	32	ug/L			11/11/20 00:50	1
Isobutyl alcohol	ND		50	42	ug/L			11/11/20 00:50	1
Isopropanol	ND		130	60	ug/L			11/11/20 00:50	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/11/20 00:50	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/11/20 00:50	1
Methylene Chloride	ND		10	4.0	ug/L			11/11/20 00:50	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/11/20 00:50	1
Naphthalene	ND		10	5.0	ug/L			11/11/20 00:50	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 00:50	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/11/20 00:50	1
o-Xylene	ND		1.0	0.26	ug/L			11/11/20 00:50	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/11/20 00:50	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 00:50	1
Styrene	ND		1.0	0.38	ug/L			11/11/20 00:50	1
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/11/20 00:50	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/11/20 00:50	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/11/20 00:50	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/11/20 00:50	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/11/20 00:50	1
Thiophene	ND		10	0.90	ug/L			11/11/20 00:50	1
Toluene	ND		1.0	0.34	ug/L			11/11/20 00:50	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/11/20 00:50	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/11/20 00:50	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/11/20 00:50	1
Trichloroethene	ND		1.0	0.35	ug/L			11/11/20 00:50	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/11/20 00:50	1
Vinyl acetate	ND		10	4.6	ug/L			11/11/20 00:50	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/11/20 00:50	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/11/20 00:50	1

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Unknown</i>	850	T J	ug/L		1.38			11/11/20 00:50	1
<i>Unknown</i>	160	T J	ug/L		1.61			11/11/20 00:50	1
<i>Unknown</i>	53	T J	ug/L		1.96			11/11/20 00:50	1
<i>Unknown</i>	32	T J	ug/L		2.02			11/11/20 00:50	1
<i>Unknown</i>	26	T J	ug/L		2.17			11/11/20 00:50	1
<i>Unknown</i>	32	T J	ug/L		2.96			11/11/20 00:50	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	92		80 - 129		11/11/20 00:50	1
<i>4-Bromofluorobenzene (Surr)</i>	97		77 - 120		11/11/20 00:50	1
<i>Dibromofluoromethane (Surr)</i>	95		80 - 128		11/11/20 00:50	1
<i>Toluene-d8 (Surr)</i>	98		80 - 120		11/11/20 00:50	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: TB3**  
**Date Collected: 10/29/20 10:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-14**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/10/20 23:55	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/10/20 23:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/20 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/10/20 23:55	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/10/20 23:55	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/10/20 23:55	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/10/20 23:55	1
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/10/20 23:55	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/10/20 23:55	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/10/20 23:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/10/20 23:55	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			11/10/20 23:55	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/10/20 23:55	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/10/20 23:55	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/10/20 23:55	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/10/20 23:55	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/10/20 23:55	1
1,3,5-Trimethylbenzene	ND		1.0	0.34	ug/L			11/10/20 23:55	1
1,3-Butadiene	ND		25	3.5	ug/L			11/10/20 23:55	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/10/20 23:55	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/10/20 23:55	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/10/20 23:55	1
1,4-Dioxane	ND		100	25	ug/L			11/10/20 23:55	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/10/20 23:55	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/10/20 23:55	1
2-Butanone	ND		20	3.6	ug/L			11/10/20 23:55	1
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/10/20 23:55	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/10/20 23:55	1
2-Hexanone	ND		10	3.1	ug/L			11/10/20 23:55	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/10/20 23:55	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/10/20 23:55	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/10/20 23:55	1
Acetone	ND		20	10	ug/L			11/10/20 23:55	1
Acetonitrile	ND		50	4.7	ug/L			11/10/20 23:55	1
Acrolein	ND		50	6.3	ug/L			11/10/20 23:55	1
Acrylonitrile	ND		20	4.0	ug/L			11/10/20 23:55	1
Benzene	ND		0.50	0.20	ug/L			11/10/20 23:55	1
Bromobenzene	ND		1.0	0.30	ug/L			11/10/20 23:55	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/10/20 23:55	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/10/20 23:55	1
Bromoform	ND		5.0	1.5	ug/L			11/10/20 23:55	1
Bromomethane	ND		25	15	ug/L			11/10/20 23:55	1
Carbon disulfide	ND		10	0.40	ug/L			11/10/20 23:55	1
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/10/20 23:55	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/10/20 23:55	1
Chloroethane	ND		5.0	2.4	ug/L			11/10/20 23:55	1
Chloroform	ND		1.0	0.50	ug/L			11/10/20 23:55	1
Chloromethane	ND		10	2.3	ug/L			11/10/20 23:55	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/10/20 23:55	1

Eurofins Calscience LLC



# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB3**  
**Date Collected: 10/29/20 10:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-14**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/10/20 23:55	1
Cyclohexane	ND		10	3.7	ug/L			11/10/20 23:55	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/10/20 23:55	1
Dibromomethane	ND		1.0	0.38	ug/L			11/10/20 23:55	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/10/20 23:55	1
Diethyl ether	ND		10	1.5	ug/L			11/10/20 23:55	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/10/20 23:55	1
Ethanol	ND		100	60	ug/L			11/10/20 23:55	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/10/20 23:55	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/10/20 23:55	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/10/20 23:55	1
Hexane	ND		5.0	2.3	ug/L			11/10/20 23:55	1
Iodomethane	ND		50	32	ug/L			11/10/20 23:55	1
Isobutyl alcohol	ND		50	42	ug/L			11/10/20 23:55	1
Isopropanol	ND		130	60	ug/L			11/10/20 23:55	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/10/20 23:55	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/10/20 23:55	1
Methylene Chloride	ND		10	4.0	ug/L			11/10/20 23:55	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/10/20 23:55	1
Naphthalene	ND		10	5.0	ug/L			11/10/20 23:55	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/10/20 23:55	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/10/20 23:55	1
o-Xylene	ND		1.0	0.26	ug/L			11/10/20 23:55	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/10/20 23:55	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/10/20 23:55	1
Styrene	ND		1.0	0.38	ug/L			11/10/20 23:55	1
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/10/20 23:55	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/10/20 23:55	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/10/20 23:55	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/10/20 23:55	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/10/20 23:55	1
Thiophene	ND		10	0.90	ug/L			11/10/20 23:55	1
Toluene	ND		1.0	0.34	ug/L			11/10/20 23:55	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/10/20 23:55	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/10/20 23:55	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/10/20 23:55	1
Trichloroethene	ND		1.0	0.35	ug/L			11/10/20 23:55	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/10/20 23:55	1
Vinyl acetate	ND		10	4.6	ug/L			11/10/20 23:55	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/10/20 23:55	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/10/20 23:55	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	850	T J	ug/L		1.38			11/10/20 23:55	1
Unknown	78	T J	ug/L		1.61			11/10/20 23:55	1
Unknown	71	T J	ug/L		1.72			11/10/20 23:55	1
Unknown	80	T J	ug/L		1.97			11/10/20 23:55	1
Unknown	25	T J	ug/L		2.96			11/10/20 23:55	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 129		11/10/20 23:55	1
4-Bromofluorobenzene (Surr)	97		77 - 120		11/10/20 23:55	1
Dibromofluoromethane (Surr)	94		80 - 128		11/10/20 23:55	1
Toluene-d8 (Surr)	99		80 - 120		11/10/20 23:55	1

**Client Sample ID: TB4**  
**Date Collected: 10/29/20 10:51**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-15**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/11/20 00:23	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/11/20 00:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/11/20 00:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/11/20 00:23	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/11/20 00:23	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/11/20 00:23	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/11/20 00:23	1
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/11/20 00:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/11/20 00:23	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/11/20 00:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/11/20 00:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 00:23	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/11/20 00:23	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/11/20 00:23	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/11/20 00:23	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/11/20 00:23	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/11/20 00:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 00:23	1
1,3-Butadiene	ND		25	3.5	ug/L			11/11/20 00:23	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/11/20 00:23	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/11/20 00:23	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/11/20 00:23	1
1,4-Dioxane	ND		100	25	ug/L			11/11/20 00:23	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/11/20 00:23	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/11/20 00:23	1
2-Butanone	ND		20	3.6	ug/L			11/11/20 00:23	1
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/11/20 00:23	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/11/20 00:23	1
2-Hexanone	ND		10	3.1	ug/L			11/11/20 00:23	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/11/20 00:23	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/11/20 00:23	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/11/20 00:23	1
Acetone	ND		20	10	ug/L			11/11/20 00:23	1
Acetonitrile	ND		50	4.7	ug/L			11/11/20 00:23	1
Acrolein	ND		50	6.3	ug/L			11/11/20 00:23	1
Acrylonitrile	ND		20	4.0	ug/L			11/11/20 00:23	1
Benzene	ND		0.50	0.20	ug/L			11/11/20 00:23	1
Bromobenzene	ND		1.0	0.30	ug/L			11/11/20 00:23	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/11/20 00:23	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/11/20 00:23	1
Bromoform	ND		5.0	1.5	ug/L			11/11/20 00:23	1
Bromomethane	ND		25	15	ug/L			11/11/20 00:23	1
Carbon disulfide	ND		10	0.40	ug/L			11/11/20 00:23	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB4**  
**Date Collected: 10/29/20 10:51**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-15**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/11/20 00:23	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/11/20 00:23	1
Chloroethane	ND		5.0	2.4	ug/L			11/11/20 00:23	1
Chloroform	ND		1.0	0.50	ug/L			11/11/20 00:23	1
Chloromethane	ND		10	2.3	ug/L			11/11/20 00:23	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/11/20 00:23	1
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/11/20 00:23	1
Cyclohexane	ND		10	3.7	ug/L			11/11/20 00:23	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/11/20 00:23	1
Dibromomethane	ND		1.0	0.38	ug/L			11/11/20 00:23	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/11/20 00:23	1
Diethyl ether	ND		10	1.5	ug/L			11/11/20 00:23	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/11/20 00:23	1
Ethanol	ND		100	60	ug/L			11/11/20 00:23	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/11/20 00:23	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/11/20 00:23	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/11/20 00:23	1
Hexane	ND		5.0	2.3	ug/L			11/11/20 00:23	1
Iodomethane	ND		50	32	ug/L			11/11/20 00:23	1
Isobutyl alcohol	ND		50	42	ug/L			11/11/20 00:23	1
Isopropanol	ND		130	60	ug/L			11/11/20 00:23	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/11/20 00:23	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/11/20 00:23	1
Methylene Chloride	ND		10	4.0	ug/L			11/11/20 00:23	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/11/20 00:23	1
Naphthalene	ND		10	5.0	ug/L			11/11/20 00:23	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 00:23	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/11/20 00:23	1
o-Xylene	ND		1.0	0.26	ug/L			11/11/20 00:23	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/11/20 00:23	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 00:23	1
Styrene	ND		1.0	0.38	ug/L			11/11/20 00:23	1
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/11/20 00:23	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/11/20 00:23	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/11/20 00:23	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/11/20 00:23	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/11/20 00:23	1
Thiophene	ND		10	0.90	ug/L			11/11/20 00:23	1
Toluene	ND		1.0	0.34	ug/L			11/11/20 00:23	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/11/20 00:23	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/11/20 00:23	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/11/20 00:23	1
Trichloroethene	ND		1.0	0.35	ug/L			11/11/20 00:23	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/11/20 00:23	1
Vinyl acetate	ND		10	4.6	ug/L			11/11/20 00:23	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/11/20 00:23	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/11/20 00:23	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	990	T J	ug/L		1.38			11/11/20 00:23	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: TB4**  
**Date Collected: 10/29/20 10:51**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-15**  
**Matrix: Water**

<u>Tentatively Identified Compound</u>	<u>Est. Result</u>	<u>Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>RT</u>	<u>CAS No.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Unknown	43	TJ	ug/L		1.95			11/11/20 00:23	1
Unknown	26	TJ	ug/L		2.96			11/11/20 00:23	1
Unknown	33	TJ	ug/L		3.16			11/11/20 00:23	1
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>				<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
1,2-Dichloroethane-d4 (Surr)	92		80 - 129					11/11/20 00:23	1
4-Bromofluorobenzene (Surr)	97		77 - 120					11/11/20 00:23	1
Dibromofluoromethane (Surr)	94		80 - 128					11/11/20 00:23	1
Toluene-d8 (Surr)	99		80 - 120					11/11/20 00:23	1

# Client Sample Results

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - RA

**Client Sample ID: CT1106**  
**Date Collected: 10/29/20 10:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methyl-2-butanol (TAA)	ND		25000	10000	ug/Kg		11/06/20 16:24	11/11/20 15:06	50
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Cyclohexane, methyl-	15000	T J N	ug/Kg		9.56	108-87-2	11/06/20 16:24	11/11/20 15:06	50
Cyclohexane, 1,1,3-trimethyl-2-(3-methylpentyl)-	8900	T J N	ug/Kg		13.31	54965-05-8	11/06/20 16:24	11/11/20 15:06	50
Benzene, 1-ethyl-4-methyl-	11000	T J N	ug/Kg		14.43	622-96-8	11/06/20 16:24	11/11/20 15:06	50
Benzene, 1-ethyl-3-methyl-	17000	T J N	ug/Kg		15.55	620-14-4	11/06/20 16:24	11/11/20 15:06	50
Benzene, 1-methyl-3-propyl-	7300	T J N	ug/Kg		15.80	1074-43-7	11/06/20 16:24	11/11/20 15:06	50
Benzene, 2-ethyl-1,4-dimethyl-	6600	T J N	ug/Kg		15.88	1758-88-9	11/06/20 16:24	11/11/20 15:06	50
3-Phenylbut-1-ene	8500	T J N	ug/Kg		16.53	934-10-1	11/06/20 16:24	11/11/20 15:06	50
Benzene, 1-ethyl-2,4-dimethyl-	7200	T J N	ug/Kg		16.75	874-41-9	11/06/20 16:24	11/11/20 15:06	50
Benzene, 1,2,3,4-tetramethyl-	5700	T J N	ug/Kg		16.92	488-23-3	11/06/20 16:24	11/11/20 15:06	50
Unknown	8900	T J	ug/Kg		17.00		11/06/20 16:24	11/11/20 15:06	50
1H-Indene, 2,3-dihydro-1,2-dimethyl-	6600	T J N	ug/Kg		17.19	17057-82-8	11/06/20 16:24	11/11/20 15:06	50
Dodecane	12000	T J N	ug/Kg		17.29	112-40-3	11/06/20 16:24	11/11/20 15:06	50
Benzene, 1,2,3,4-tetramethyl-	20000	T J N	ug/Kg		17.40	488-23-3	11/06/20 16:24	11/11/20 15:06	50
Unknown	8200	T J	ug/Kg		17.61		11/06/20 16:24	11/11/20 15:06	50
1H-Indene, 2,3-dihydro-2,2-dimethyl-	6800	T J N	ug/Kg		17.92	20836-11-7	11/06/20 16:24	11/11/20 15:06	50
Unknown	11000	T J	ug/Kg		18.29		11/06/20 16:24	11/11/20 15:06	50
Tridecane	23000	T J N	ug/Kg		18.38	629-50-5	11/06/20 16:24	11/11/20 15:06	50
1H-Indene, 2,3-dihydro-4,7-dimethyl-	16000	T J N	ug/Kg		18.75	6682-71-9	11/06/20 16:24	11/11/20 15:06	50
Unknown	7200	T J	ug/Kg		18.91		11/06/20 16:24	11/11/20 15:06	50
Naphthalene, 1,2,3,4-tetrahydro-1,1,6-trimethyl-	5700	T J N	ug/Kg		19.08	475-03-6	11/06/20 16:24	11/11/20 15:06	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	101		71 - 155				11/06/20 16:24	11/11/20 15:06	50
4-Bromofluorobenzene (Surr)	102		80 - 120				11/06/20 16:24	11/11/20 15:06	50
Dibromofluoromethane (Surr)	100		79 - 133				11/06/20 16:24	11/11/20 15:06	50
Toluene-d8 (Surr)	104		80 - 120				11/06/20 16:24	11/11/20 15:06	50

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methyl-2-butanol (TAA)	ND		25000	11000	ug/Kg		11/06/20 16:24	11/11/20 15:33	50
<b>Tentatively Identified Compound</b>	<b>Est. Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>RT</b>	<b>CAS No.</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Cyclohexane, methyl-	16000	T J N	ug/Kg		9.57	108-87-2	11/06/20 16:24	11/11/20 15:33	50
Octane	8100	T J N	ug/Kg		10.98	111-65-9	11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 2-methyl-	75000	T J N	ug/Kg		11.66	91-57-6	11/06/20 16:24	11/11/20 15:33	50
Benzene, 1-ethyl-2-methyl-	6500	T J N	ug/Kg		14.80	611-14-3	11/06/20 16:24	11/11/20 15:33	50
Benzene, 1,2,3-trimethyl-	15000	T J N	ug/Kg		15.54	526-73-8	11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 2-ethyl-	33000	T J N	ug/Kg		16.13	939-27-5	11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 1,6-dimethyl-	92000	T J N	ug/Kg		16.56	575-43-9	11/06/20 16:24	11/11/20 15:33	50
Pentadecane	29000	T J N	ug/Kg		16.78	629-62-9	11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 2,3-dimethyl-	62000	T J N	ug/Kg		17.04	581-40-8	11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 1,6-dimethyl-	47000	T J N	ug/Kg		17.14	575-43-9	11/06/20 16:24	11/11/20 15:33	50
Benzene, 1,2,3,5-tetramethyl-	15000	T J N	ug/Kg		17.40	527-53-7	11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 2,3-dimethyl-	28000	T J N	ug/Kg		17.61	581-40-8	11/06/20 16:24	11/11/20 15:33	50

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) - RA (Continued)

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Benzene, (1-methyl-1-butenyl)-	6700	T J N	ug/Kg		17.81	53172-84-2	11/06/20 16:24	11/11/20 15:33	50
Benzene, (1-methyl-1-butenyl)-	17000	T J N	ug/Kg		17.93	53172-84-2	11/06/20 16:24	11/11/20 15:33	50
1,1'-Biphenyl, 4-methyl-	32000	T J N	ug/Kg		18.25	644-08-6	11/06/20 16:24	11/11/20 15:33	50
Unknown	14000	T J	ug/Kg		18.38		11/06/20 16:24	11/11/20 15:33	50
Unknown	16000	T J	ug/Kg		18.48		11/06/20 16:24	11/11/20 15:33	50
Unknown	10000	T J	ug/Kg		18.74		11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 2-(1-methylethyl)-	13000	T J N	ug/Kg		18.84	2027-17-0	11/06/20 16:24	11/11/20 15:33	50
Naphthalene, 1,2,3,4-tetrahydro-1,4-dimethyl-	12000	T J N	ug/Kg		19.00	4175-54-6	11/06/20 16:24	11/11/20 15:33	50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	94		71 - 155	11/06/20 16:24	11/11/20 15:33	50
4-Bromofluorobenzene (Surr)	101		80 - 120	11/06/20 16:24	11/11/20 15:33	50
Dibromofluoromethane (Surr)	93		79 - 133	11/06/20 16:24	11/11/20 15:33	50
Toluene-d8 (Surr)	104		80 - 120	11/06/20 16:24	11/11/20 15:33	50

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2-Methyl-2-butanol (TAA)	ND		25000	10000	ug/Kg		11/06/20 16:24	11/11/20 16:02	50

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Naphthalene, 2-methyl-	45000	T J N	ug/Kg		11.64	91-57-6	11/06/20 16:24	11/11/20 16:02	50
1,4-Methanonaphthalene, 1,4-dihydro-	40000	T J N	ug/Kg		11.67	4453-90-1	11/06/20 16:24	11/11/20 16:02	50
Benzene, 1-ethyl-3-methyl-	23000	T J N	ug/Kg		14.43	620-14-4	11/06/20 16:24	11/11/20 16:02	50
Benzene, 1-ethyl-3-methyl-	18000	T J N	ug/Kg		15.55	620-14-4	11/06/20 16:24	11/11/20 16:02	50
Naphthalene, 1-ethyl-	53000	T J N	ug/Kg		16.13	1127-76-0	11/06/20 16:24	11/11/20 16:02	50
Naphthalene, 2,7-dimethyl-	140000	T J N	ug/Kg		16.55	582-16-1	11/06/20 16:24	11/11/20 16:02	50
Unknown	23000	T J	ug/Kg		16.75		11/06/20 16:24	11/11/20 16:02	50
Naphthalene, 1,6-dimethyl-	100000	T J N	ug/Kg		17.03	575-43-9	11/06/20 16:24	11/11/20 16:02	50
Naphthalene, 2,7-dimethyl-	73000	T J N	ug/Kg		17.13	582-16-1	11/06/20 16:24	11/11/20 16:02	50
Unknown	26000	T J	ug/Kg		17.29		11/06/20 16:24	11/11/20 16:02	50
Benzene, 1,2,3,4-tetramethyl-	40000	T J N	ug/Kg		17.40	488-23-3	11/06/20 16:24	11/11/20 16:02	50
Naphthalene, 1-ethyl-	55000	T J N	ug/Kg		17.61	1127-76-0	11/06/20 16:24	11/11/20 16:02	50
1H-Indene, 2,3-dihydro-1,6-dimethyl-	26000	T J N	ug/Kg		17.93	17059-48-2	11/06/20 16:24	11/11/20 16:02	50
Unknown	16000	T J	ug/Kg		17.98		11/06/20 16:24	11/11/20 16:02	50
Nonane, 3-methyl-	27000	T J N	ug/Kg		18.10	5911-04-6	11/06/20 16:24	11/11/20 16:02	50
1,1'-Biphenyl, 4-methyl-	57000	T J N	ug/Kg		18.25	644-08-6	11/06/20 16:24	11/11/20 16:02	50
Tridecane	71000	T J N	ug/Kg		18.38	629-50-5	11/06/20 16:24	11/11/20 16:02	50
Unknown	18000	T J	ug/Kg		18.52		11/06/20 16:24	11/11/20 16:02	50
Unknown	26000	T J	ug/Kg		18.75		11/06/20 16:24	11/11/20 16:02	50
Benzene, 1-(1-methylethenyl)-2-(1-methylethyl)-	16000	T J N	ug/Kg		19.01	5557-93-7	11/06/20 16:24	11/11/20 16:02	50

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	91		71 - 155	11/06/20 16:24	11/11/20 16:02	50
4-Bromofluorobenzene (Surr)	100		80 - 120	11/06/20 16:24	11/11/20 16:02	50
Dibromofluoromethane (Surr)	93		79 - 133	11/06/20 16:24	11/11/20 16:02	50
Toluene-d8 (Surr)	101		80 - 120	11/06/20 16:24	11/11/20 16:02	50

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Gasoline Range Organics - (GC)

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	160		50	30	ug/L			11/07/20 19:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	79		38 - 134					11/07/20 19:01	1

**Client Sample ID: V23602-1-1.5**  
**Date Collected: 10/29/20 09:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	270		17	9.2	mg/Kg		10/29/20 19:56	11/08/20 06:46	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	113		42 - 126				10/29/20 19:56	11/08/20 06:46	200

**Client Sample ID: DB30001VB-1-1.5**  
**Date Collected: 10/29/20 07:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	290		12	6.6	mg/Kg		10/29/20 19:56	11/08/20 07:11	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	117		42 - 126				10/29/20 19:56	11/08/20 07:11	200

**Client Sample ID: DB3000VB-1-1.5**  
**Date Collected: 10/29/20 08:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	410		21	11	mg/Kg		10/29/20 19:56	11/08/20 07:36	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	116		42 - 126				10/29/20 19:56	11/08/20 07:36	200

**Client Sample ID: DB3000VB-1-1.5D**  
**Date Collected: 10/29/20 08:11**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	360		20	11	mg/Kg		10/29/20 19:56	11/08/20 08:01	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	112		42 - 126				10/29/20 19:56	11/08/20 08:01	200

**Client Sample ID: CT1106**  
**Date Collected: 10/29/20 10:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	1100		200	110	mg/Kg		11/06/20 16:24	11/11/20 17:50	200

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		42 - 126	11/06/20 16:24	11/11/20 17:50	200

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	1100		200	110	mg/Kg		11/06/20 16:24	11/11/20 18:14	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		42 - 126	11/06/20 16:24	11/11/20 18:14	200

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	1200		200	110	mg/Kg		11/06/20 16:24	11/11/20 18:37	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		42 - 126	11/06/20 16:24	11/11/20 18:37	200

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	5.5		0.11	0.063	mg/Kg		10/29/20 19:56	11/08/20 05:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	42 - 126	10/29/20 19:56	11/08/20 05:07	1

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	0.52		0.091	0.050	mg/Kg		10/29/20 19:56	11/08/20 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		42 - 126	10/29/20 19:56	11/08/20 05:32	1

**Client Sample ID: EB-102920**  
**Date Collected: 10/29/20 11:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		50	30	ug/L			11/07/20 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		38 - 134		11/07/20 17:51	1

**Client Sample ID: TB1**  
**Date Collected: 10/29/20 10:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-12**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		50	30	ug/L			11/07/20 15:06	1

Eurofins Calscience LLC



# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Gasoline Range Organics - (GC)

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>				<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>	
4-Bromofluorobenzene (Surr)	69		38 - 134					11/07/20 15:06	1	
<b>Client Sample ID: TB2</b>							<b>Lab Sample ID: 570-42384-13</b>			
<b>Date Collected: 10/29/20 10:51</b>							<b>Matrix: Water</b>			
<b>Date Received: 10/29/20 12:55</b>										
<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>	
Gasoline Range Organics (C4-C12)	ND		50	30	ug/L			11/07/20 15:30	1	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>				<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>	
4-Bromofluorobenzene (Surr)	71		38 - 134					11/07/20 15:30	1	
<b>Client Sample ID: TB3</b>							<b>Lab Sample ID: 570-42384-14</b>			
<b>Date Collected: 10/29/20 10:50</b>							<b>Matrix: Water</b>			
<b>Date Received: 10/29/20 12:55</b>										
<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>	
Gasoline Range Organics (C4-C12)	ND		50	30	ug/L			11/07/20 15:53	1	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>				<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>	
4-Bromofluorobenzene (Surr)	71		38 - 134					11/07/20 15:53	1	
<b>Client Sample ID: TB4</b>							<b>Lab Sample ID: 570-42384-15</b>			
<b>Date Collected: 10/29/20 10:51</b>							<b>Matrix: Water</b>			
<b>Date Received: 10/29/20 12:55</b>										
<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>MDL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>	
Gasoline Range Organics (C4-C12)	ND		50	30	ug/L			11/11/20 12:44	1	
<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>				<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>	
4-Bromofluorobenzene (Surr)	70		38 - 134					11/11/20 12:44	1	

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
C7 as C7	ND		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
C8 as C8	ND		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C9-C10</b>	<b>27</b>	<b>J</b>	48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C11-C12</b>	<b>140</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C13-C14</b>	<b>220</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C15-C16</b>	<b>260</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C17-C18</b>	<b>260</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C19-C20</b>	<b>240</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C21-C22</b>	<b>290</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C23-C24</b>	<b>990</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C25-C28</b>	<b>3500</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C29-C32</b>	<b>3300</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C33-C36</b>	<b>1800</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C37-C40</b>	<b>550</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>C41-C44</b>	<b>190</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>Diesel Range Organics [C10-C28]</b>	<b>6000</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>5900</b>		48	21	ug/L		11/04/20 16:29	11/10/20 08:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	93		68 - 140				11/04/20 16:29	11/10/20 08:42	1

**Client Sample ID: V23602-1-1.5**  
**Date Collected: 10/29/20 09:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
C7 as C7	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
C8 as C8	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C9-C10</b>	<b>12</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C11-C12</b>	<b>41</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C13-C14</b>	<b>49</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C15-C16</b>	<b>34</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C17-C18</b>	<b>39</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C19-C20</b>	<b>32</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C21-C22</b>	<b>16</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C23-C24</b>	<b>7.1</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C25-C28</b>	<b>11</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C29-C32</b>	<b>8.8</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C33-C36</b>	<b>4.5</b>	<b>J</b>	4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
C37-C40	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
C41-C44	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>C6-C44</b>	<b>260</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>Diesel Range Organics [C10-C28]</b>	<b>240</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>15</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 22:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	68		61 - 145				11/10/20 09:47	11/10/20 22:42	1

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: DB30001VB-1-1.5**

**Date Collected: 10/29/20 07:50**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
C7 as C7	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
C8 as C8	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C9-C10</b>	<b>24</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C11-C12</b>	<b>83</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C13-C14</b>	<b>110</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C15-C16</b>	<b>80</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C17-C18</b>	<b>93</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C19-C20</b>	<b>77</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C21-C22</b>	<b>39</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C23-C24</b>	<b>17</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C25-C28</b>	<b>28</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C29-C32</b>	<b>24</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C33-C36</b>	<b>14</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C37-C40</b>	<b>6.6</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
C41-C44	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>C6-C44</b>	<b>590</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>Diesel Range Organics [C10-C28]</b>	<b>540</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>46</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	78		61 - 145	11/10/20 09:47	11/10/20 23:05	1

**Client Sample ID: DB3000VB-1-1.5**

**Date Collected: 10/29/20 08:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
C7 as C7	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
C8 as C8	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C9-C10</b>	<b>47</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C11-C12</b>	<b>160</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C13-C14</b>	<b>200</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C15-C16</b>	<b>150</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C17-C18</b>	<b>170</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C19-C20</b>	<b>140</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C21-C22</b>	<b>73</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C23-C24</b>	<b>35</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C25-C28</b>	<b>58</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C29-C32</b>	<b>52</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C33-C36</b>	<b>32</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C37-C40</b>	<b>16</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
C41-C44	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>C6-C44</b>	<b>1100</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>Diesel Range Organics [C10-C28]</b>	<b>1000</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>100</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	88		61 - 145	11/10/20 09:47	11/10/20 23:27	1

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: DB3000VB-1-1.5D**

**Date Collected: 10/29/20 08:11**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
C7 as C7	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
C8 as C8	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C9-C10</b>	<b>22</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C11-C12</b>	<b>82</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C13-C14</b>	<b>110</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C15-C16</b>	<b>78</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C17-C18</b>	<b>91</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C19-C20</b>	<b>76</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C21-C22</b>	<b>39</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C23-C24</b>	<b>18</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C25-C28</b>	<b>30</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C29-C32</b>	<b>26</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C33-C36</b>	<b>16</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C37-C40</b>	<b>8.2</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
C41-C44	ND		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>C6-C44</b>	<b>590</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>Diesel Range Organics [C10-C28]</b>	<b>530</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>52</b>		4.9	3.8	mg/Kg		11/10/20 09:47	11/10/20 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	90		61 - 145	11/10/20 09:47	11/10/20 23:49	1

**Client Sample ID: CT1106**

**Date Collected: 10/29/20 10:00**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
C7 as C7	ND		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
C8 as C8	ND		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
C9-C10	ND		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
C11-C12	ND		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C13-C14</b>	<b>23000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C15-C16</b>	<b>56000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C17-C18</b>	<b>82000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C19-C20</b>	<b>65000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C21-C22</b>	<b>51000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C23-C24</b>	<b>41000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C25-C28</b>	<b>74000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C29-C32</b>	<b>64000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C33-C36</b>	<b>37000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C37-C40</b>	<b>17000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C41-C44</b>	<b>6500</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>C6-C44</b>	<b>520000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>Diesel Range Organics [C10-C28]</b>	<b>390000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100
<b>TPH as Motor Oil (C29-C44)</b>	<b>120000</b>		4200	3200	mg/Kg		11/10/20 09:47	11/11/20 20:13	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	369	S1+	61 - 145	11/10/20 09:47	11/11/20 20:13	100

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
C7 as C7	ND		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
C8 as C8	ND		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
C9-C10	ND		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C11-C12</b>	<b>1900</b>	<b>J</b>	2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C13-C14</b>	<b>10000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C15-C16</b>	<b>22000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C17-C18</b>	<b>32000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C19-C20</b>	<b>25000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C21-C22</b>	<b>19000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C23-C24</b>	<b>15000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C25-C28</b>	<b>28000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C29-C32</b>	<b>24000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C33-C36</b>	<b>15000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C37-C40</b>	<b>7300</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C41-C44</b>	<b>3300</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>C6-C44</b>	<b>200000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>Diesel Range Organics [C10-C28]</b>	<b>150000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100
<b>TPH as Motor Oil (C29-C44)</b>	<b>49000</b>		2300	1800	mg/Kg		11/10/20 09:47	11/11/20 20:35	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	304	S1+	61 - 145	11/10/20 09:47	11/11/20 20:35	100

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
C7 as C7	ND		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
C8 as C8	ND		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
C9-C10	ND		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
C11-C12	ND		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C13-C14</b>	<b>28000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C15-C16</b>	<b>62000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C17-C18</b>	<b>86000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C19-C20</b>	<b>67000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C21-C22</b>	<b>52000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C23-C24</b>	<b>42000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C25-C28</b>	<b>76000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C29-C32</b>	<b>64000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C33-C36</b>	<b>37000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C37-C40</b>	<b>17000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
C41-C44	ND		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>C6-C44</b>	<b>540000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>Diesel Range Organics [C10-C28]</b>	<b>410000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200
<b>TPH as Motor Oil (C29-C44)</b>	<b>120000</b>		9000	6900	mg/Kg		11/10/20 09:47	11/11/20 20:58	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	375	S1+	61 - 145	11/10/20 09:47	11/11/20 20:58	200

Eurofins Calscience LLC

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
C7 as C7	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
C8 as C8	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
C9-C10	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C11-C12</b>	<b>12</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C13-C14</b>	<b>37</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C15-C16</b>	<b>55</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C17-C18</b>	<b>84</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C19-C20</b>	<b>71</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C21-C22</b>	<b>45</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C23-C24</b>	<b>29</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C25-C28</b>	<b>58</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C29-C32</b>	<b>53</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C33-C36</b>	<b>31</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C37-C40</b>	<b>15</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
C41-C44	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>C6-C44</b>	<b>490</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>Diesel Range Organics [C10-C28]</b>	<b>390</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>100</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	85		61 - 145	11/10/20 10:31	11/11/20 00:12	1

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
C7 as C7	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
C8 as C8	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
C9-C10	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C11-C12</b>	<b>3.8</b>	<b>J</b>	5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C13-C14</b>	<b>8.0</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C15-C16</b>	<b>8.8</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C17-C18</b>	<b>12</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C19-C20</b>	<b>10</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C21-C22</b>	<b>6.4</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
C23-C24	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C25-C28</b>	<b>8.5</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C29-C32</b>	<b>8.7</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C33-C36</b>	<b>5.3</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
C37-C40	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
C41-C44	ND		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>C6-C44</b>	<b>78</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>Diesel Range Organics [C10-C28]</b>	<b>61</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>17</b>		5.0	3.8	mg/Kg		11/10/20 10:31	11/11/20 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	74		61 - 145	11/10/20 10:31	11/11/20 00:34	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Client Sample ID: EB-102920**  
**Date Collected: 10/29/20 11:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C7 as C7	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C8 as C8	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C9-C10	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C11-C12	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C13-C14	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C15-C16	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C17-C18	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C19-C20	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C21-C22	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C23-C24	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C25-C28	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C29-C32	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C33-C36	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C37-C40	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
C41-C44	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
<b>C6-C44</b>	<b>42</b>	<b>J</b>	50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
Diesel Range Organics [C10-C28]	ND		50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
<b>TPH as Motor Oil (C29-C44)</b>	<b>41</b>	<b>J</b>	50	22	ug/L		11/04/20 16:29	11/10/20 09:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	86		68 - 140				11/04/20 16:29	11/10/20 09:03	1

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - DL

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C6-C44</b>	<b>17000</b>		240	110	ug/L		11/04/20 16:29	11/10/20 20:08	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>n-Octacosane (Surr)</i>	104		68 - 140				11/04/20 16:29	11/10/20 20:08	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.208	J	0.500	0.193	mg/L		11/03/20 14:40	11/03/20 22:36	1
Antimony	ND	L	0.100	0.0329	mg/L		11/03/20 14:40	11/03/20 22:36	1
Arsenic	ND	L	0.100	0.0181	mg/L		11/03/20 14:40	11/03/20 22:36	1
Barium	9.47		0.0100	0.00308	mg/L		11/03/20 14:40	11/03/20 22:36	1
Beryllium	ND		0.0100	0.00252	mg/L		11/03/20 14:40	11/03/20 22:36	1
Cadmium	0.00554	J	0.0100	0.00210	mg/L		11/03/20 14:40	11/03/20 22:36	1
Chromium	0.0249	J	0.0500	0.00688	mg/L		11/03/20 14:40	11/03/20 22:36	1
Cobalt	ND		0.0500	0.00362	mg/L		11/03/20 14:40	11/03/20 22:36	1
Copper	0.0170	J	0.0500	0.00614	mg/L		11/03/20 14:40	11/03/20 22:36	1
Lead	0.0147	J	0.0500	0.00821	mg/L		11/03/20 14:40	11/03/20 22:36	1
Molybdenum	ND		0.0500	0.00509	mg/L		11/03/20 14:40	11/03/20 22:36	1
Nickel	0.0142	J	0.0500	0.00784	mg/L		11/03/20 14:40	11/03/20 22:36	1
Selenium	ND		0.100	0.0244	mg/L		11/03/20 14:40	11/03/20 22:36	1
Boron	1.83		0.500	0.133	mg/L		11/03/20 14:40	11/03/20 22:36	1
Silver	ND		0.0100	0.00298	mg/L		11/03/20 14:40	11/03/20 22:36	1
Thallium	0.0583		0.0500	0.0161	mg/L		11/03/20 14:40	11/03/20 22:36	1
Vanadium	0.0127		0.0100	0.00297	mg/L		11/03/20 14:40	11/03/20 22:36	1
Zinc	ND		0.250	0.0682	mg/L		11/03/20 14:40	11/03/20 22:36	1
Calcium	6910		40.0	9.18	mg/L		11/03/20 14:40	11/04/20 14:58	20
Iron	7.12		0.500	0.123	mg/L		11/03/20 14:40	11/03/20 22:36	1
Magnesium	202		0.500	0.0493	mg/L		11/03/20 14:40	11/03/20 22:36	1
Manganese	12.0		0.0500	0.00405	mg/L		11/03/20 14:40	11/03/20 22:36	1
Phosphorus	0.228	J	0.250	0.0756	mg/L		11/03/20 14:40	11/03/20 22:36	1
Potassium	1640		40.0	4.81	mg/L		11/03/20 14:40	11/04/20 14:58	20
Silicon	12.9		0.250	0.0947	mg/L		11/03/20 14:40	11/03/20 22:36	1
Sodium	913		40.0	22.3	mg/L		11/03/20 14:40	11/04/20 14:58	20
Strontium	111		1.00	0.324	mg/L		11/03/20 14:40	11/04/20 21:02	100
Titanium	ND	L	0.0500	0.00405	mg/L		11/03/20 14:40	11/03/20 22:36	1

**Client Sample ID: V23602-1-1.5**  
**Date Collected: 10/29/20 09:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4070	B	2.46	0.353	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Antimony	ND		0.739	0.147	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Arsenic	6.53		0.739	0.255	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Barium	3170		0.493	0.152	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Beryllium	0.737		0.246	0.135	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Boron	9.15	B	1.97	0.442	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Cadmium	4.67		0.493	0.133	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Calcium	14700		4.93	0.375	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Chromium	16.3		0.246	0.140	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Cobalt	0.798		0.246	0.146	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Copper	26.7		0.493	0.133	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Iron	11600	B	4.93	0.131	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Lead	9.95		0.493	0.130	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Magnesium	2060		4.93	0.167	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Manganese	141		0.246	0.137	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Molybdenum	8.85		0.246	0.130	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Nickel	42.8		0.246	0.143	mg/Kg		11/10/20 18:00	11/11/20 00:05	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

**Client Sample ID: V23602-1-1.5**  
**Date Collected: 10/29/20 09:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	1030	B	4.93	0.246	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Potassium	2740	B	24.6	1.72	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Selenium	ND		0.739	0.296	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Silicon	197		4.93	1.30	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Silver	ND		0.246	0.0844	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Sodium	542		24.6	1.79	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Strontium	218		7.39	0.680	mg/Kg		11/10/20 18:00	11/11/20 11:51	5
Thallium	ND		0.739	0.150	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Tin	ND		2.46	0.147	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Titanium	217		1.48	0.136	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Vanadium	66.7		0.246	0.139	mg/Kg		11/10/20 18:00	11/11/20 00:05	1
Zinc	162		0.985	0.175	mg/Kg		11/10/20 18:00	11/11/20 00:05	1

**Client Sample ID: DB30001VB-1-1.5**  
**Date Collected: 10/29/20 07:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3280	B	2.42	0.346	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Antimony	ND		0.725	0.144	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Arsenic	5.38		0.725	0.250	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Barium	2930		0.483	0.149	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Beryllium	0.615		0.242	0.132	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Boron	5.67	B	1.93	0.434	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Cadmium	3.93		0.483	0.130	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Calcium	10100		4.83	0.368	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Chromium	14.2		0.242	0.137	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Cobalt	0.468		0.242	0.143	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Copper	24.9		0.483	0.130	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Iron	9440	B	4.83	0.129	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Lead	4.98		0.483	0.128	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Magnesium	1710		4.83	0.163	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Manganese	124		0.242	0.134	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Molybdenum	7.18		0.242	0.128	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Nickel	36.9		0.242	0.140	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Phosphorus	903	B	4.83	0.242	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Potassium	1950	B	24.2	1.69	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Selenium	ND		0.725	0.290	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Silicon	165		4.83	1.28	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Silver	ND		0.242	0.0828	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Sodium	417		24.2	1.76	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Strontium	120		1.45	0.133	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Thallium	ND	L	0.725	0.147	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Tin	ND		2.42	0.144	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Titanium	194		1.45	0.133	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Vanadium	56.4		0.242	0.136	mg/Kg		11/10/20 18:00	11/11/20 00:07	1
Zinc	121		0.966	0.172	mg/Kg		11/10/20 18:00	11/11/20 00:07	1

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: DB3000VB-1-1.5**

**Date Collected: 10/29/20 08:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3850	B	2.51	0.360	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Antimony	ND		0.754	0.150	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Arsenic	6.36		0.754	0.260	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Barium	4420		0.503	0.155	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Beryllium	0.719		0.251	0.138	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Boron	11.4	B	2.01	0.451	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Cadmium	4.67		0.503	0.136	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Calcium	12100		5.03	0.383	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Chromium	16.1		0.251	0.143	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Cobalt	ND	L	0.251	0.149	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Copper	24.7		0.503	0.136	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Iron	11000	B	5.03	0.134	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Lead	6.09		0.503	0.133	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Magnesium	2650		5.03	0.170	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Manganese	191		0.251	0.140	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Molybdenum	9.32		0.251	0.133	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Nickel	43.0		0.251	0.146	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Phosphorus	981	B	5.03	0.251	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Potassium	2600	B	25.1	1.76	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Selenium	ND		0.754	0.302	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Silicon	218		5.03	1.33	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Silver	ND		0.251	0.0861	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Sodium	449		25.1	1.83	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Strontium	162		7.54	0.693	mg/Kg		11/10/20 18:00	11/11/20 11:53	5
Thallium	ND		0.754	0.153	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Tin	ND		2.51	0.150	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Titanium	241		1.51	0.139	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Vanadium	67.5		0.251	0.142	mg/Kg		11/10/20 18:00	11/11/20 00:19	1
Zinc	177		1.01	0.179	mg/Kg		11/10/20 18:00	11/11/20 00:19	1

**Client Sample ID: DB3000VB-1-1.5D**

**Date Collected: 10/29/20 08:11**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3860	B	2.48	0.354	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Antimony	0.232	J B	0.743	0.148	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Arsenic	6.80		0.743	0.256	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Barium	4590		0.495	0.152	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Beryllium	0.690		0.248	0.136	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Boron	8.78	B	1.98	0.445	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Cadmium	3.66		0.495	0.134	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Calcium	10700		4.95	0.377	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Chromium	15.1		0.248	0.141	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Cobalt	ND	L	0.248	0.147	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Copper	25.0		0.495	0.134	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Iron	10900	B	4.95	0.132	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Lead	5.65		0.495	0.131	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Magnesium	2010		4.95	0.167	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Manganese	132		0.248	0.138	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Molybdenum	8.98		0.248	0.131	mg/Kg		11/10/20 18:00	11/11/20 00:21	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

**Client Sample ID: DB3000VB-1-1.5D**

**Date Collected: 10/29/20 08:11**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	41.6		0.248	0.144	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Phosphorus	960	B	4.95	0.248	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Potassium	2740	B	24.8	1.73	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Selenium	ND		0.743	0.297	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Silicon	223		4.95	1.31	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Silver	ND		0.248	0.0849	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Sodium	452		24.8	1.80	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Strontium	170		7.43	0.683	mg/Kg		11/10/20 18:00	11/11/20 11:56	5
Thallium	0.176	J	0.743	0.150	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Tin	ND		2.48	0.148	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Titanium	242		1.49	0.137	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Vanadium	63.0		0.248	0.140	mg/Kg		11/10/20 18:00	11/11/20 00:21	1
Zinc	154		0.990	0.176	mg/Kg		11/10/20 18:00	11/11/20 00:21	1

**Client Sample ID: CT1106**

**Date Collected: 10/29/20 10:00**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	109	B	5.10	0.731	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Antimony	0.558	J B	1.53	0.304	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Arsenic	1.40	J	1.53	0.529	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Barium	114		1.02	0.314	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Beryllium	ND		0.510	0.280	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Boron	8.35	B	4.08	0.916	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Cadmium	0.348	J	1.02	0.276	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Calcium	267		10.2	0.778	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Chromium	0.330	J	0.510	0.290	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Cobalt	0.565		0.510	0.302	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Copper	2.22		1.02	0.276	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Iron	489	B	10.2	0.271	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Lead	ND		1.02	0.269	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Magnesium	51.1		10.2	0.345	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Manganese	5.78		0.510	0.284	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Molybdenum	1.03		0.510	0.269	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Nickel	11.9		0.510	0.296	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Phosphorus	28.7	B	10.2	0.510	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Potassium	66.6	B	51.0	3.57	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Selenium	ND		1.53	0.612	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Silicon	32.8		10.2	2.69	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Silver	0.187	J	0.510	0.175	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Sodium	123		51.0	3.71	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Strontium	3.71		3.06	0.282	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Thallium	0.907	J	1.53	0.310	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Tin	1.95	J B	5.10	0.304	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Titanium	6.42		3.06	0.282	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Vanadium	7.65		0.510	0.288	mg/Kg		11/10/20 18:00	11/11/20 00:27	1
Zinc	2.93		2.04	0.363	mg/Kg		11/10/20 18:00	11/11/20 00:27	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1140	B	5.15	0.738	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Antimony	ND		1.55	0.307	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Arsenic	1.14	J	1.55	0.534	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Barium	1270		1.03	0.318	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Beryllium	ND		0.515	0.282	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Boron	7.09	B	4.12	0.926	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Cadmium	1.71		1.03	0.278	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Calcium	3020		10.3	0.786	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Chromium	3.67		0.515	0.293	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Cobalt	0.869		0.515	0.305	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Copper	7.06		1.03	0.278	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Iron	3600	B	10.3	0.274	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Lead	1.48		1.03	0.272	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Magnesium	640		10.3	0.348	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Manganese	72.5		0.515	0.287	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Molybdenum	2.91		0.515	0.272	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Nickel	25.4		0.515	0.299	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Phosphorus	369	B	10.3	0.515	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Potassium	653	B	51.5	3.61	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Selenium	ND		1.55	0.619	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Silicon	84.3		10.3	2.72	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Silver	ND		0.515	0.177	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Sodium	312		51.5	3.75	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Strontium	25.4		3.09	0.285	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Thallium	ND		1.55	0.313	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Tin	ND		5.15	0.307	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Titanium	45.1		3.09	0.285	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Vanadium	19.9		0.515	0.291	mg/Kg		11/10/20 18:00	11/11/20 00:28	1
Zinc	23.7		2.06	0.367	mg/Kg		11/10/20 18:00	11/11/20 00:28	1

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	122	B	4.85	0.695	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Antimony	0.504	J B	1.46	0.289	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Arsenic	0.549	J	1.46	0.503	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Barium	169		0.971	0.299	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Beryllium	ND		0.485	0.266	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Boron	8.04	B	3.88	0.872	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Cadmium	0.328	J	0.971	0.262	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Calcium	549		9.71	0.740	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Chromium	0.415	J	0.485	0.276	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Cobalt	0.479	J	0.485	0.287	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Copper	1.91		0.971	0.262	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Iron	515	B	9.71	0.258	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Lead	ND		0.971	0.256	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Magnesium	62.4		9.71	0.328	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Manganese	7.09		0.485	0.270	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Molybdenum	1.01		0.485	0.256	mg/Kg		11/10/20 18:00	11/11/20 00:30	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	10.7		0.485	0.282	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Phosphorus	35.0	B	9.71	0.485	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Potassium	81.1	B	48.5	3.40	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Selenium	ND		1.46	0.583	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Silicon	23.6		9.71	2.56	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Silver	ND		0.485	0.166	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Sodium	138		48.5	3.53	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Strontium	8.10		2.91	0.268	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Thallium	ND		1.46	0.295	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Tin	1.26	J B	4.85	0.289	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Titanium	6.56		2.91	0.268	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Vanadium	6.96		0.485	0.274	mg/Kg		11/10/20 18:00	11/11/20 00:30	1
Zinc	2.99		1.94	0.346	mg/Kg		11/10/20 18:00	11/11/20 00:30	1

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5620	B	2.44	0.349	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Antimony	0.182	J B	0.732	0.145	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Arsenic	4.63		0.732	0.253	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Barium	1410		0.488	0.150	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Beryllium	0.994		0.244	0.134	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Boron	1.22	J B	1.95	0.438	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Cadmium	5.93		0.488	0.132	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Calcium	12400		4.88	0.372	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Chromium	24.2		0.244	0.139	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Cobalt	4.58		0.244	0.144	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Copper	39.6		0.488	0.132	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Iron	21100	B	4.88	0.130	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Lead	12.8		0.488	0.129	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Magnesium	2830		4.88	0.165	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Manganese	314		0.244	0.136	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Molybdenum	9.36		0.244	0.129	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Nickel	63.0		0.244	0.141	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Phosphorus	1430	B	4.88	0.244	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Potassium	2710	B	24.4	1.71	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Selenium	ND		0.732	0.293	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Silicon	195		4.88	1.29	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Silver	ND		0.244	0.0836	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Sodium	729		24.4	1.78	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Strontium	89.0		1.46	0.135	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Thallium	ND		0.732	0.148	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Tin	ND		2.44	0.145	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Titanium	322		1.46	0.135	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Vanadium	83.8		0.244	0.138	mg/Kg		11/10/20 18:00	11/11/20 00:22	1
Zinc	124		0.976	0.174	mg/Kg		11/10/20 18:00	11/11/20 00:22	1

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5300	B	2.48	0.354	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Antimony	ND		0.743	0.148	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Arsenic	2.05		0.743	0.256	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Barium	708		0.495	0.152	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Beryllium	0.842		0.248	0.136	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Boron	22.8	B	1.98	0.445	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Cadmium	5.05		0.495	0.134	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Calcium	9360		4.95	0.377	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Chromium	23.9		0.248	0.141	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Cobalt	5.74		0.248	0.147	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Copper	48.4		0.495	0.134	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Iron	29000	B	4.95	0.132	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Lead	7.55		0.495	0.131	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Magnesium	2580		4.95	0.167	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Manganese	228		0.248	0.138	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Molybdenum	8.64		0.248	0.131	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Nickel	68.5		0.248	0.144	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Phosphorus	1090	B	4.95	0.248	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Potassium	2670	B	24.8	1.73	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Selenium	ND		0.743	0.297	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Silicon	198		4.95	1.31	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Silver	ND		0.248	0.0849	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Sodium	454		24.8	1.80	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Strontium	68.2		1.49	0.137	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Thallium	ND	L	0.743	0.150	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Tin	ND		2.48	0.148	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Titanium	302		1.49	0.137	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Vanadium	78.6		0.248	0.140	mg/Kg		11/10/20 18:00	11/11/20 00:25	1
Zinc	90.3		0.990	0.176	mg/Kg		11/10/20 18:00	11/11/20 00:25	1

**Client Sample ID: EB-102920**  
**Date Collected: 10/29/20 11:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.500	0.193	mg/L		11/03/20 14:40	11/03/20 22:45	1
Antimony	ND		0.100	0.0329	mg/L		11/03/20 14:40	11/03/20 22:45	1
Arsenic	ND		0.100	0.0181	mg/L		11/03/20 14:40	11/03/20 22:45	1
Barium	ND		0.0100	0.00308	mg/L		11/03/20 14:40	11/03/20 22:45	1
Beryllium	ND		0.0100	0.00252	mg/L		11/03/20 14:40	11/03/20 22:45	1
Cadmium	ND		0.0100	0.00210	mg/L		11/03/20 14:40	11/03/20 22:45	1
Chromium	ND		0.0500	0.00688	mg/L		11/03/20 14:40	11/03/20 22:45	1
Cobalt	ND		0.0500	0.00362	mg/L		11/03/20 14:40	11/03/20 22:45	1
Copper	0.0138	J	0.0500	0.00614	mg/L		11/03/20 14:40	11/03/20 22:45	1
Lead	ND		0.0500	0.00821	mg/L		11/03/20 14:40	11/03/20 22:45	1
Molybdenum	ND		0.0500	0.00509	mg/L		11/03/20 14:40	11/03/20 22:45	1
Nickel	ND		0.0500	0.00784	mg/L		11/03/20 14:40	11/03/20 22:45	1
Selenium	ND		0.100	0.0244	mg/L		11/03/20 14:40	11/03/20 22:45	1
Boron	ND		0.500	0.133	mg/L		11/03/20 14:40	11/03/20 22:45	1
Silver	ND		0.0100	0.00298	mg/L		11/03/20 14:40	11/03/20 22:45	1
Thallium	ND		0.0500	0.0161	mg/L		11/03/20 14:40	11/03/20 22:45	1

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# Client Sample Results

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

Client Sample ID: EB-102920  
Date Collected: 10/29/20 11:00  
Date Received: 10/29/20 12:55

Lab Sample ID: 570-42384-11  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.0100	0.00297	mg/L		11/03/20 14:40	11/03/20 22:45	1
Zinc	ND		0.250	0.0682	mg/L		11/03/20 14:40	11/03/20 22:45	1
Calcium	ND		2.00	0.459	mg/L		11/03/20 14:40	11/03/20 22:45	1
Iron	ND		0.500	0.123	mg/L		11/03/20 14:40	11/03/20 22:45	1
Magnesium	ND		0.500	0.0493	mg/L		11/03/20 14:40	11/03/20 22:45	1
Manganese	ND		0.0500	0.00405	mg/L		11/03/20 14:40	11/03/20 22:45	1
Phosphorus	ND		0.250	0.0756	mg/L		11/03/20 14:40	11/03/20 22:45	1
Potassium	0.278	J	2.00	0.240	mg/L		11/03/20 14:40	11/03/20 22:45	1
Silicon	0.817		0.250	0.0947	mg/L		11/03/20 14:40	11/03/20 22:45	1
Sodium	1.75	J	2.00	1.11	mg/L		11/03/20 14:40	11/03/20 22:45	1
Strontium	ND		0.0100	0.00324	mg/L		11/03/20 14:40	11/03/20 22:45	1
Titanium	ND		0.0500	0.00405	mg/L		11/03/20 14:40	11/03/20 22:45	1



# Client Sample Results

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 7470A - Mercury (CVAA)

**Client Sample ID: TK130-M**  
**Date Collected: 10/29/20 10:25**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		11/04/20 06:30	11/04/20 12:58	1

**Client Sample ID: EB-102920**  
**Date Collected: 10/29/20 11:00**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		11/04/20 06:30	11/04/20 13:00	1

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: V23602-1-1.5**

**Date Collected: 10/29/20 09:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.150		0.0847	0.0137	mg/Kg		11/10/20 18:00	11/11/20 13:41	1

**Client Sample ID: DB30001VB-1-1.5**

**Date Collected: 10/29/20 07:50**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0563	J	0.0806	0.0131	mg/Kg		11/10/20 18:00	11/11/20 13:47	1

**Client Sample ID: DB3000VB-1-1.5**

**Date Collected: 10/29/20 08:10**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0342	J	0.0833	0.0135	mg/Kg		11/10/20 18:00	11/11/20 13:49	1

**Client Sample ID: DB3000VB-1-1.5D**

**Date Collected: 10/29/20 08:11**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0311	J	0.0847	0.0137	mg/Kg		11/10/20 18:00	11/11/20 13:50	1

**Client Sample ID: CT1106**

**Date Collected: 10/29/20 10:00**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-6**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0820	0.0133	mg/Kg		11/10/20 18:00	11/11/20 13:56	1

**Client Sample ID: CT817**

**Date Collected: 10/29/20 09:47**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0794	0.0129	mg/Kg		11/10/20 18:00	11/11/20 13:58	1

**Client Sample ID: CT824**

**Date Collected: 10/29/20 09:55**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0135	mg/Kg		11/10/20 18:00	11/11/20 14:00	1

**Client Sample ID: V327**

**Date Collected: 10/29/20 08:55**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0790	J	0.0833	0.0135	mg/Kg		11/10/20 18:00	11/11/20 13:52	1

**Client Sample ID: V509-1-0.5**

**Date Collected: 10/29/20 08:46**

**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**

**Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0545	J	0.0820	0.0133	mg/Kg		11/10/20 18:00	11/11/20 13:54	1

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# Surrogate Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (71-155)	BFB (80-120)	DBFM (79-133)	TOL (80-120)
570-42384-2	V23602-1-1.5	103	100	101	99
570-42384-3	DB30001VB-1-1.5	102	100	100	101
570-42384-4	DB3000VB-1-1.5	101	102	101	99
570-42384-5	DB3000VB-1-1.5D	105	99	104	102
570-42384-6	CT1106	99	101	87	102
570-42384-6 - RA	CT1106	101	102	100	104
570-42384-7	CT817	99	101	88	102
570-42384-7 - RA	CT817	94	101	93	104
570-42384-8	CT824	101	102	89	102
570-42384-8 - RA	CT824	91	100	93	101
570-42384-9	V327	103	104	100	101
570-42384-10	V509-1-0.5	102	99	99	102
LCS 570-107773/3	Lab Control Sample	106	104	104	102
LCS 570-108348/1-A	Lab Control Sample	103	103	101	105
LCS 570-108690/1-A	Lab Control Sample	104	105	105	100
LCSD 570-107773/4	Lab Control Sample Dup	105	99	102	104
LCSD 570-108348/2-A	Lab Control Sample Dup	102	104	102	104
LCSD 570-108690/2-A	Lab Control Sample Dup	106	104	104	101
MB 570-107553/1-A	Method Blank	115	105	102	107
MB 570-107773/7	Method Blank	106	105	102	100
MB 570-108479/1-A	Method Blank	105	104	91	100
MB 570-108690/3-A	Method Blank	118	87	114	98

#### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-129)	BFB (77-120)	DBFM (80-128)	TOL (80-120)
570-42384-1	TK130-M	94	98	97	98
570-42384-11	EB-102920	92	98	95	100
570-42384-12	TB1	92	97	94	100
570-42384-13	TB2	92	97	95	98
570-42384-14	TB3	91	97	94	99
570-42384-15	TB4	92	97	94	99
LCS 570-108483/3	Lab Control Sample	92	99	98	100
LCS 570-108700/3	Lab Control Sample	92	98	100	100
LCSD 570-108483/4	Lab Control Sample Dup	93	98	99	99
LCSD 570-108700/4	Lab Control Sample Dup	93	99	100	100
MB 570-108483/6	Method Blank	93	98	94	99
MB 570-108700/6	Method Blank	92	98	97	99

#### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Eurofins Calscience LLC

# Surrogate Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

Job ID: 570-42384-1

## Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (42-126)
570-42384-2	V23602-1-1.5	113
570-42384-3	DB30001VB-1-1.5	117
570-42384-4	DB3000VB-1-1.5	116
570-42384-5	DB3000VB-1-1.5D	112
570-42384-6	CT1106	85
570-42384-7	CT817	85
570-42384-8	CT824	84
570-42384-9	V327	166 S1+
570-42384-10	V509-1-0.5	105
LCS 570-107903/56	Lab Control Sample	110
LCS 570-108732/2-A	Lab Control Sample	94
LCSD 570-107903/57	Lab Control Sample Dup	110
LCSD 570-108732/3-A	Lab Control Sample Dup	94
MB 570-107553/1-A	Method Blank	81
MB 570-107903/30	Method Blank	83
MB 570-107903/49	Method Blank	79
MB 570-108732/1-A	Method Blank	80

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (38-134)
570-42384-1	TK130-M	79
570-42384-11	EB-102920	72
570-42384-12	TB1	69
570-42384-13	TB2	71
570-42384-14	TB3	71
570-42384-15	TB4	70
LCS 570-107882/55	Lab Control Sample	91
LCS 570-108697/3	Lab Control Sample	85
LCSD 570-107882/56	Lab Control Sample Dup	92
LCSD 570-108697/4	Lab Control Sample Dup	85
MB 570-107882/57	Method Blank	72
MB 570-108697/5	Method Blank	70

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (61-145)
570-42384-2	V23602-1-1.5	68
570-42384-3	DB30001VB-1-1.5	78
570-42384-4	DB3000VB-1-1.5	88
570-42384-5	DB3000VB-1-1.5D	90
570-42384-6	CT1106	369 S1+
570-42384-7	CT817	304 S1+
570-42384-8	CT824	375 S1+
570-42384-9	V327	85
570-42384-10	V509-1-0.5	74
LCS 570-108392/2-A	Lab Control Sample	88
LCSD 570-108392/3-A	Lab Control Sample Dup	90
MB 570-108392/1-A	Method Blank	90

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (68-140)
570-42384-1	TK130-M	93
570-42384-1 - DL	TK130-M	104
570-42384-11	EB-102920	86
LCS 570-107061/2-A	Lab Control Sample	69
LCSD 570-107061/3-A	Lab Control Sample Dup	92
MB 570-107061/1-A	Method Blank	93

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 570-107553/1-A**  
**Matrix: Solid**  
**Analysis Batch: 107540**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 107553**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		100	29	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,1,1-Trichloroethane	ND		100	23	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,1,2,2-Tetrachloroethane	ND		200	54	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	46	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,1,2-Trichloroethane	ND		100	46	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,1-Dichloroethane	ND		100	28	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,1-Dichloroethene	ND		100	27	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,1-Dichloropropene	ND		200	39	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2,3-Trichlorobenzene	ND		200	100	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2,3-Trichloropropane	ND		200	42	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2,4-Trichlorobenzene	ND		200	41	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2,4-Trimethylbenzene	ND		200	60	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2-Dibromo-3-Chloropropane	ND		1000	680	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2-Dibromoethane	ND		100	21	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2-Dichlorobenzene	ND		100	25	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2-Dichloroethane	ND		100	28	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,2-Dichloropropane	ND		100	28	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,3,5-Trimethylbenzene	ND		200	60	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,3-Butadiene	ND		100	30	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,3-Dichlorobenzene	ND		100	25	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,3-Dichloropropane	ND		100	30	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,4-Dichlorobenzene	ND		100	31	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
1,4-Dioxane	ND		10000	3000	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
2,2,4-Trimethylpentane	ND		100	30	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
2,2-Dichloropropane	ND		500	27	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
2-Butanone	ND		2000	450	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
2-Chloroethyl vinyl ether	ND		2000	980	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
2-Chlorotoluene	ND		100	25	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
2-Hexanone	ND		2000	310	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
2-Methyl-2-butanol (TAA)	ND		5000	2100	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
4-Chlorotoluene	ND		100	24	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
4-Methyl-2-pentanone	ND		2000	290	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Acetone	ND		2000	980	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Acetonitrile	ND		4000	670	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Acrolein	ND		5000	570	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Acrylonitrile	ND		2500	490	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Benzene	ND		100	26	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Bromobenzene	ND		100	21	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Bromochloromethane	ND		200	44	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Bromodichloromethane	ND		100	16	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Bromoform	ND		500	130	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Bromomethane	ND		2000	660	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Carbon disulfide	ND		1000	40	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Carbon tetrachloride	ND		100	30	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Chlorobenzene	ND		100	27	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Chloroethane	ND		200	150	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Chloroform	ND		100	59	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Chloromethane	ND		2000	150	ug/Kg		11/06/20 07:52	11/06/20 11:14	50

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-107553/1-A**  
**Matrix: Solid**  
**Analysis Batch: 107540**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 107553**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,2-Dichloroethene	ND		100	34	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
cis-1,3-Dichloropropene	ND		100	35	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Cyclohexane	ND		2000	370	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Dibromochloromethane	ND		200	27	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Dibromomethane	ND		100	31	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Dichlorodifluoromethane	ND		200	45	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Diethyl ether	ND		2000	160	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Di-isopropyl ether (DIPE)	ND		100	50	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Ethanol	ND		25000	6600	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Ethylbenzene	ND		100	21	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Ethyl-t-butyl ether (ETBE)	ND		100	24	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Hexachloro-1,3-butadiene	ND		500	170	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Hexane	ND		500	160	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Iodomethane	ND		5000	2200	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Isobutyl alcohol	ND		5000	4500	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Isopropanol	ND		13000	6000	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Isopropylbenzene	ND		100	60	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
m,p-Xylene	ND		200	47	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Methylene Chloride	ND		1000	310	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Methyl-t-Butyl Ether (MTBE)	ND		200	19	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Naphthalene	ND		1000	520	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
n-Butylbenzene	ND		100	21	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
N-Propylbenzene	ND		200	60	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
o-Xylene	ND		100	60	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
p-Isopropyltoluene	ND		100	70	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
sec-Butylbenzene	ND		100	60	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Styrene	ND		100	70	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Tert-amyl-methyl ether (TAME)	ND		100	19	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
tert-Butyl alcohol (TBA)	ND		2000	700	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
tert-Butylbenzene	ND		100	25	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Tetrachloroethene	ND		100	22	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Tetrahydrofuran	ND		2000	380	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Thiophene	ND		500	130	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Toluene	ND		100	60	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
trans-1,2-Dichloroethene	ND		100	30	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
trans-1,3-Dichloropropene	ND		200	28	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
trans-1,4-Dichloro-2-butene	ND		1000	310	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Trichloroethene	ND		200	39	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Trichlorofluoromethane	ND		1000	27	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Vinyl acetate	ND		1000	390	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Vinyl chloride	ND		100	38	ug/Kg		11/06/20 07:52	11/06/20 11:14	50
Xylenes, Total	ND		300	70	ug/Kg		11/06/20 07:52	11/06/20 11:14	50

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Tentatively Identified Compound	None		ug/Kg				11/06/20 07:52	11/06/20 11:14	50

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	115		71 - 155	11/06/20 07:52	11/06/20 11:14	50

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-107553/1-A**  
**Matrix: Solid**  
**Analysis Batch: 107540**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 107553**

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>4-Bromofluorobenzene (Surr)</i>	105		80 - 120	11/06/20 07:52	11/06/20 11:14	50
<i>Dibromofluoromethane (Surr)</i>	102		79 - 133	11/06/20 07:52	11/06/20 11:14	50
<i>Toluene-d8 (Surr)</i>	107		80 - 120	11/06/20 07:52	11/06/20 11:14	50

**Lab Sample ID: MB 570-107773/7**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1,1,2-Tetrachloroethane	ND		50	15	ug/Kg			11/06/20 22:12	50
1,1,1-Trichloroethane	ND		50	12	ug/Kg			11/06/20 22:12	50
1,1,2,2-Tetrachloroethane	ND		100	27	ug/Kg			11/06/20 22:12	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	23	ug/Kg			11/06/20 22:12	50
1,1,2-Trichloroethane	ND		50	23	ug/Kg			11/06/20 22:12	50
1,1-Dichloroethane	ND		50	14	ug/Kg			11/06/20 22:12	50
1,1-Dichloroethene	ND		50	13	ug/Kg			11/06/20 22:12	50
1,1-Dichloropropene	ND		100	19	ug/Kg			11/06/20 22:12	50
1,2,3-Trichlorobenzene	ND		100	50	ug/Kg			11/06/20 22:12	50
1,2,3-Trichloropropane	ND		100	21	ug/Kg			11/06/20 22:12	50
1,2,4-Trichlorobenzene	ND		100	21	ug/Kg			11/06/20 22:12	50
1,2,4-Trimethylbenzene	ND		100	30	ug/Kg			11/06/20 22:12	50
1,2-Dibromo-3-Chloropropane	ND		500	340	ug/Kg			11/06/20 22:12	50
1,2-Dibromoethane	ND		50	10	ug/Kg			11/06/20 22:12	50
1,2-Dichlorobenzene	ND		50	13	ug/Kg			11/06/20 22:12	50
1,2-Dichloroethane	ND		50	14	ug/Kg			11/06/20 22:12	50
1,2-Dichloropropane	ND		50	14	ug/Kg			11/06/20 22:12	50
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg			11/06/20 22:12	50
1,3-Butadiene	ND		50	15	ug/Kg			11/06/20 22:12	50
1,3-Dichlorobenzene	ND		50	13	ug/Kg			11/06/20 22:12	50
1,3-Dichloropropane	ND		50	15	ug/Kg			11/06/20 22:12	50
1,4-Dichlorobenzene	ND		50	15	ug/Kg			11/06/20 22:12	50
1,4-Dioxane	ND		5000	1500	ug/Kg			11/06/20 22:12	50
2,2,4-Trimethylpentane	ND		50	15	ug/Kg			11/06/20 22:12	50
2,2-Dichloropropane	ND		250	14	ug/Kg			11/06/20 22:12	50
2-Butanone	ND		1000	230	ug/Kg			11/06/20 22:12	50
2-Chloroethyl vinyl ether	ND		1000	490	ug/Kg			11/06/20 22:12	50
2-Chlorotoluene	ND		50	13	ug/Kg			11/06/20 22:12	50
2-Hexanone	ND		1000	150	ug/Kg			11/06/20 22:12	50
2-Methyl-2-butanol (TAA)	ND		2500	1100	ug/Kg			11/06/20 22:12	50
4-Chlorotoluene	ND		50	12	ug/Kg			11/06/20 22:12	50
4-Methyl-2-pentanone	ND		1000	150	ug/Kg			11/06/20 22:12	50
Acetone	ND		1000	490	ug/Kg			11/06/20 22:12	50
Acetonitrile	ND		2000	330	ug/Kg			11/06/20 22:12	50
Acrolein	ND		2500	280	ug/Kg			11/06/20 22:12	50
Acrylonitrile	ND		1300	250	ug/Kg			11/06/20 22:12	50
Benzene	ND		50	13	ug/Kg			11/06/20 22:12	50
Bromobenzene	ND		50	10	ug/Kg			11/06/20 22:12	50
Bromochloromethane	ND		100	22	ug/Kg			11/06/20 22:12	50

Eurofins Calscience LLC



# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-107773/7**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		50	8.0	ug/Kg			11/06/20 22:12	50
Bromoform	ND		250	66	ug/Kg			11/06/20 22:12	50
Bromomethane	ND		1000	330	ug/Kg			11/06/20 22:12	50
Carbon disulfide	ND		500	20	ug/Kg			11/06/20 22:12	50
Carbon tetrachloride	ND		50	15	ug/Kg			11/06/20 22:12	50
Chlorobenzene	ND		50	13	ug/Kg			11/06/20 22:12	50
Chloroethane	ND		100	75	ug/Kg			11/06/20 22:12	50
Chloroform	ND		50	29	ug/Kg			11/06/20 22:12	50
Chloromethane	ND		1000	77	ug/Kg			11/06/20 22:12	50
cis-1,2-Dichloroethene	ND		50	17	ug/Kg			11/06/20 22:12	50
cis-1,3-Dichloropropene	ND		50	17	ug/Kg			11/06/20 22:12	50
Cyclohexane	ND		1000	180	ug/Kg			11/06/20 22:12	50
Dibromochloromethane	ND		100	14	ug/Kg			11/06/20 22:12	50
Dibromomethane	ND		50	15	ug/Kg			11/06/20 22:12	50
Dichlorodifluoromethane	ND		100	23	ug/Kg			11/06/20 22:12	50
Diethyl ether	ND		1000	82	ug/Kg			11/06/20 22:12	50
Di-isopropyl ether (DIPE)	ND		50	25	ug/Kg			11/06/20 22:12	50
Ethanol	ND		13000	3300	ug/Kg			11/06/20 22:12	50
Ethylbenzene	ND		50	10	ug/Kg			11/06/20 22:12	50
Ethyl-t-butyl ether (ETBE)	ND		50	12	ug/Kg			11/06/20 22:12	50
Hexachloro-1,3-butadiene	ND		250	83	ug/Kg			11/06/20 22:12	50
Hexane	ND		250	81	ug/Kg			11/06/20 22:12	50
Iodomethane	ND		2500	1100	ug/Kg			11/06/20 22:12	50
Isobutyl alcohol	ND		2500	2300	ug/Kg			11/06/20 22:12	50
Isopropanol	ND		6300	3000	ug/Kg			11/06/20 22:12	50
Isopropylbenzene	ND		50	30	ug/Kg			11/06/20 22:12	50
m,p-Xylene	ND		100	24	ug/Kg			11/06/20 22:12	50
Methylene Chloride	ND		500	160	ug/Kg			11/06/20 22:12	50
Methyl-t-Butyl Ether (MTBE)	ND		100	9.4	ug/Kg			11/06/20 22:12	50
Naphthalene	ND		500	260	ug/Kg			11/06/20 22:12	50
n-Butylbenzene	ND		50	11	ug/Kg			11/06/20 22:12	50
N-Propylbenzene	ND		100	30	ug/Kg			11/06/20 22:12	50
o-Xylene	ND		50	30	ug/Kg			11/06/20 22:12	50
p-Isopropyltoluene	ND		50	35	ug/Kg			11/06/20 22:12	50
sec-Butylbenzene	ND		50	30	ug/Kg			11/06/20 22:12	50
Styrene	ND		50	35	ug/Kg			11/06/20 22:12	50
Tert-amyl-methyl ether (TAME)	ND		50	9.7	ug/Kg			11/06/20 22:12	50
tert-Butyl alcohol (TBA)	ND		1000	350	ug/Kg			11/06/20 22:12	50
tert-Butylbenzene	ND		50	13	ug/Kg			11/06/20 22:12	50
Tetrachloroethene	ND		50	11	ug/Kg			11/06/20 22:12	50
Tetrahydrofuran	ND		1000	190	ug/Kg			11/06/20 22:12	50
Thiophene	ND		250	64	ug/Kg			11/06/20 22:12	50
Toluene	ND		50	30	ug/Kg			11/06/20 22:12	50
trans-1,2-Dichloroethene	ND		50	15	ug/Kg			11/06/20 22:12	50
trans-1,3-Dichloropropene	ND		100	14	ug/Kg			11/06/20 22:12	50
trans-1,4-Dichloro-2-butene	ND		500	150	ug/Kg			11/06/20 22:12	50
Trichloroethene	ND		100	19	ug/Kg			11/06/20 22:12	50
Trichlorofluoromethane	ND		500	14	ug/Kg			11/06/20 22:12	50
Vinyl acetate	ND		500	200	ug/Kg			11/06/20 22:12	50

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-107773/7**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		50	19	ug/Kg			11/06/20 22:12	50
Xylenes, Total	ND		150	35	ug/Kg			11/06/20 22:12	50

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg					11/06/20 22:12	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		71 - 155		11/06/20 22:12	50
4-Bromofluorobenzene (Surr)	105		80 - 120		11/06/20 22:12	50
Dibromofluoromethane (Surr)	102		79 - 133		11/06/20 22:12	50
Toluene-d8 (Surr)	100		80 - 120		11/06/20 22:12	50

**Lab Sample ID: LCS 570-107773/3**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.92		ug/Kg		106	73 - 133
1,1,1-Trichloroethane	50.0	53.67		ug/Kg		107	71 - 131
1,1,1,2-Tetrachloroethane	50.0	58.32		ug/Kg		117	77 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.94		ug/Kg		106	77 - 125
1,1,2-Trichloroethane	50.0	55.46		ug/Kg		111	80 - 120
1,1-Dichloroethane	50.0	55.63		ug/Kg		111	74 - 120
1,1-Dichloroethene	50.0	55.52		ug/Kg		111	71 - 125
1,1-Dichloropropene	50.0	57.34		ug/Kg		115	69 - 120
1,2,3-Trichlorobenzene	50.0	52.49		ug/Kg		105	73 - 127
1,2,3-Trichloropropane	50.0	54.99		ug/Kg		110	60 - 120
1,2,4-Trichlorobenzene	50.0	52.07		ug/Kg		104	74 - 128
1,2,4-Trimethylbenzene	50.0	54.14		ug/Kg		108	75 - 123
1,2-Dibromo-3-Chloropropane	50.0	48.53		ug/Kg		97	54 - 132
1,2-Dibromoethane	50.0	53.71		ug/Kg		107	80 - 120
1,2-Dichlorobenzene	50.0	53.88		ug/Kg		108	80 - 120
1,2-Dichloroethane	50.0	54.93		ug/Kg		110	79 - 121
1,2-Dichloropropane	50.0	54.19		ug/Kg		108	77 - 120
1,3,5-Trimethylbenzene	50.0	52.04		ug/Kg		104	80 - 123
1,3-Dichlorobenzene	50.0	53.50		ug/Kg		107	80 - 120
1,3-Dichloropropane	50.0	53.77		ug/Kg		108	80 - 120
1,4-Dichlorobenzene	50.0	52.91		ug/Kg		106	80 - 120
1,4-Dioxane	500	511.5		ug/Kg		102	80 - 120
2,2-Dichloropropane	50.0	59.88		ug/Kg		120	58 - 142
2-Butanone	50.0	57.47		ug/Kg		115	56 - 176
2-Chlorotoluene	50.0	52.75		ug/Kg		106	56 - 176
2-Hexanone	50.0	54.39		ug/Kg		109	67 - 151
2-Methyl-2-butanol (TAA)	250	267.1		ug/Kg		107	70 - 130
4-Chlorotoluene	50.0	53.12		ug/Kg		106	67 - 151
4-Methyl-2-pentanone	50.0	51.81		ug/Kg		104	72 - 126
Acetone	50.0	47.78		ug/Kg		96	30 - 150

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-107773/3**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.83		ug/Kg		104	79 - 120
Bromobenzene	50.0	50.57		ug/Kg		101	80 - 120
Bromochloromethane	50.0	52.17		ug/Kg		104	80 - 120
Bromodichloromethane	50.0	55.22		ug/Kg		110	73 - 127
Bromoform	50.0	55.07		ug/Kg		110	55 - 133
Bromomethane	50.0	53.20		ug/Kg		106	36 - 144
Carbon disulfide	50.0	55.27		ug/Kg		111	53 - 125
Carbon tetrachloride	50.0	54.80		ug/Kg		110	58 - 142
Chlorobenzene	50.0	52.20		ug/Kg		104	80 - 120
Chloroethane	50.0	52.81		ug/Kg		106	60 - 120
Chloroform	50.0	52.44		ug/Kg		105	80 - 120
Chloromethane	50.0	51.48		ug/Kg		103	50 - 122
cis-1,2-Dichloroethene	50.0	53.39		ug/Kg		107	80 - 123
cis-1,3-Dichloropropene	50.0	54.94		ug/Kg		110	74 - 128
Dibromochloromethane	50.0	53.60		ug/Kg		107	50 - 122
Dibromomethane	50.0	53.14		ug/Kg		106	70 - 130
Dichlorodifluoromethane	50.0	45.52		ug/Kg		91	32 - 158
Diethyl ether	50.0	52.91		ug/Kg		106	80 - 120
Di-isopropyl ether (DIPE)	50.0	56.02		ug/Kg		112	65 - 131
Ethanol	500	521.3		ug/Kg		104	32 - 158
Ethylbenzene	50.0	52.92		ug/Kg		106	57 - 153
Ethyl-t-butyl ether (ETBE)	50.0	54.90		ug/Kg		110	58 - 136
Isopropylbenzene	50.0	53.94		ug/Kg		108	80 - 129
m,p-Xylene	100	104.2		ug/Kg		104	80 - 122
Methylene Chloride	50.0	54.32		ug/Kg		109	72 - 120
Methyl-t-Butyl Ether (MTBE)	50.0	52.88		ug/Kg		106	64 - 124
Naphthalene	50.0	53.07		ug/Kg		106	64 - 124
n-Butylbenzene	50.0	52.84		ug/Kg		106	78 - 126
N-Propylbenzene	50.0	52.59		ug/Kg		105	80 - 122
o-Xylene	50.0	51.51		ug/Kg		103	79 - 127
p-Isopropyltoluene	50.0	52.68		ug/Kg		105	80 - 122
sec-Butylbenzene	50.0	54.04		ug/Kg		108	79 - 127
Styrene	50.0	53.89		ug/Kg		108	80 - 123
Tert-amyl-methyl ether (TAME)	50.0	53.25		ug/Kg		107	63 - 129
tert-Butyl alcohol (TBA)	250	255.6		ug/Kg		102	79 - 121
tert-Butylbenzene	50.0	54.69		ug/Kg		109	80 - 128
Tetrachloroethene	50.0	53.78		ug/Kg		108	75 - 123
Toluene	50.0	53.22		ug/Kg		106	80 - 120
trans-1,2-Dichloroethene	50.0	56.20		ug/Kg		112	80 - 120
trans-1,3-Dichloropropene	50.0	57.15		ug/Kg		114	66 - 120
Trichloroethene	50.0	50.72		ug/Kg		101	80 - 120
Trichlorofluoromethane	50.0	53.37		ug/Kg		107	70 - 136
Vinyl acetate	50.0	61.95		ug/Kg		124	51 - 159
Vinyl chloride	50.0	52.21		ug/Kg		104	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		71 - 155
4-Bromofluorobenzene (Surr)	104		80 - 120

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-107773/3**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	104		79 - 133
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: LCSD 570-107773/4**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
1,1,1,2-Tetrachloroethane	50.0	53.86		ug/Kg		108	73 - 133	2	20
1,1,1-Trichloroethane	50.0	52.99		ug/Kg		106	71 - 131	1	20
1,1,2,2-Tetrachloroethane	50.0	59.80		ug/Kg		120	77 - 120	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.91		ug/Kg		108	77 - 125	2	20
1,1,2-Trichloroethane	50.0	54.76		ug/Kg		110	80 - 120	1	20
1,1-Dichloroethane	50.0	56.51		ug/Kg		113	74 - 120	2	20
1,1-Dichloroethene	50.0	54.95		ug/Kg		110	71 - 125	1	20
1,1-Dichloropropene	50.0	55.62		ug/Kg		111	69 - 120	3	20
1,2,3-Trichlorobenzene	50.0	51.29		ug/Kg		103	73 - 127	2	20
1,2,3-Trichloropropane	50.0	54.72		ug/Kg		109	60 - 120	0	20
1,2,4-Trichlorobenzene	50.0	51.16		ug/Kg		102	74 - 128	2	20
1,2,4-Trimethylbenzene	50.0	54.61		ug/Kg		109	75 - 123	1	20
1,2-Dibromo-3-Chloropropane	50.0	51.99		ug/Kg		104	54 - 132	7	20
1,2-Dibromoethane	50.0	53.22		ug/Kg		106	80 - 120	1	20
1,2-Dichlorobenzene	50.0	54.58		ug/Kg		109	80 - 120	1	20
1,2-Dichloroethane	50.0	56.07		ug/Kg		112	79 - 121	2	20
1,2-Dichloropropane	50.0	53.63		ug/Kg		107	77 - 120	1	25
1,3,5-Trimethylbenzene	50.0	51.42		ug/Kg		103	80 - 123	1	20
1,3-Dichlorobenzene	50.0	52.25		ug/Kg		104	80 - 120	2	20
1,3-Dichloropropane	50.0	56.43		ug/Kg		113	80 - 120	5	20
1,4-Dichlorobenzene	50.0	51.96		ug/Kg		104	80 - 120	2	20
1,4-Dioxane	500	519.6		ug/Kg		104	80 - 120	2	20
2,2-Dichloropropane	50.0	55.55		ug/Kg		111	58 - 142	8	20
2-Butanone	50.0	57.40		ug/Kg		115	56 - 176	0	20
2-Chlorotoluene	50.0	52.16		ug/Kg		104	56 - 176	1	20
2-Hexanone	50.0	55.61		ug/Kg		111	67 - 151	2	20
2-Methyl-2-butanol (TAA)	250	291.3		ug/Kg		117	70 - 130	9	20
4-Chlorotoluene	50.0	51.82		ug/Kg		104	67 - 151	2	20
4-Methyl-2-pentanone	50.0	55.68		ug/Kg		111	72 - 126	7	20
Acetone	50.0	51.51		ug/Kg		103	30 - 150	8	20
Benzene	50.0	53.04		ug/Kg		106	79 - 120	2	20
Bromobenzene	50.0	52.31		ug/Kg		105	80 - 120	3	20
Bromochloromethane	50.0	53.20		ug/Kg		106	80 - 120	2	20
Bromodichloromethane	50.0	55.63		ug/Kg		111	73 - 127	1	20
Bromoform	50.0	54.04		ug/Kg		108	55 - 133	2	20
Bromomethane	50.0	51.00		ug/Kg		102	36 - 144	4	20
Carbon disulfide	50.0	54.89		ug/Kg		110	53 - 125	1	20
Carbon tetrachloride	50.0	52.36		ug/Kg		105	58 - 142	5	20
Chlorobenzene	50.0	52.56		ug/Kg		105	80 - 120	1	20
Chloroethane	50.0	52.58		ug/Kg		105	60 - 120	0	20

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-107773/4**  
**Matrix: Solid**  
**Analysis Batch: 107773**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	50.0	51.45		ug/Kg		103	80 - 120	2	20
Chloromethane	50.0	50.82		ug/Kg		102	50 - 122	1	20
cis-1,2-Dichloroethene	50.0	51.70		ug/Kg		103	80 - 123	3	20
cis-1,3-Dichloropropene	50.0	56.59		ug/Kg		113	74 - 128	3	20
Dibromochloromethane	50.0	54.02		ug/Kg		108	50 - 122	1	20
Dibromomethane	50.0	56.22		ug/Kg		112	70 - 130	6	20
Dichlorodifluoromethane	50.0	47.13		ug/Kg		94	32 - 158	3	20
Diethyl ether	50.0	53.51		ug/Kg		107	80 - 120	1	20
Di-isopropyl ether (DIPE)	50.0	55.29		ug/Kg		111	65 - 131	1	20
Ethanol	500	505.6		ug/Kg		101	32 - 158	3	27
Ethylbenzene	50.0	53.04		ug/Kg		106	57 - 153	0	20
Ethyl-t-butyl ether (ETBE)	50.0	55.34		ug/Kg		111	58 - 136	1	20
Isopropylbenzene	50.0	52.70		ug/Kg		105	80 - 129	2	20
m,p-Xylene	100	105.4		ug/Kg		105	80 - 122	1	20
Methylene Chloride	50.0	52.61		ug/Kg		105	72 - 120	3	20
Methyl-t-Butyl Ether (MTBE)	50.0	53.59		ug/Kg		107	64 - 124	1	20
Naphthalene	50.0	53.05		ug/Kg		106	64 - 124	0	20
n-Butylbenzene	50.0	51.58		ug/Kg		103	78 - 126	2	25
N-Propylbenzene	50.0	52.97		ug/Kg		106	80 - 122	1	20
o-Xylene	50.0	51.43		ug/Kg		103	79 - 127	0	20
p-Isopropyltoluene	50.0	52.64		ug/Kg		105	80 - 122	0	20
sec-Butylbenzene	50.0	53.61		ug/Kg		107	79 - 127	1	20
Styrene	50.0	53.44		ug/Kg		107	80 - 123	1	20
Tert-amyl-methyl ether (TAME)	50.0	55.16		ug/Kg		110	63 - 129	4	20
tert-Butyl alcohol (TBA)	250	249.2		ug/Kg		100	79 - 121	3	20
tert-Butylbenzene	50.0	54.46		ug/Kg		109	80 - 128	0	20
Tetrachloroethene	50.0	53.84		ug/Kg		108	75 - 123	0	20
Toluene	50.0	53.86		ug/Kg		108	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	54.92		ug/Kg		110	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	57.77		ug/Kg		116	66 - 120	1	20
Trichloroethene	50.0	49.97		ug/Kg		100	80 - 120	1	20
Trichlorofluoromethane	50.0	54.05		ug/Kg		108	70 - 136	1	20
Vinyl acetate	50.0	64.12		ug/Kg		128	51 - 159	3	20
Vinyl chloride	50.0	50.08		ug/Kg		100	68 - 120	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	105		71 - 155
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	102		79 - 133
Toluene-d8 (Surr)	104		80 - 120

**Lab Sample ID: LCS 570-108348/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.12		ug/Kg		102	70 - 130
1,1,1-Trichloroethane	50.0	50.07		ug/Kg		100	70 - 130

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-108348/1-A**

**Matrix: Solid**

**Analysis Batch: 108345**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 108348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	50.0	45.64		ug/Kg		91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.25		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	47.27		ug/Kg		95	70 - 130
1,1-Dichloroethane	50.0	48.02		ug/Kg		96	70 - 130
1,1-Dichloroethene	50.0	51.83		ug/Kg		104	74 - 122
1,1-Dichloropropene	50.0	49.70		ug/Kg		99	70 - 130
1,2,3-Trichlorobenzene	50.0	53.98		ug/Kg		108	70 - 130
1,2,3-Trichloropropane	50.0	45.94		ug/Kg		92	70 - 130
1,2,4-Trichlorobenzene	50.0	53.97		ug/Kg		108	70 - 130
1,2,4-Trimethylbenzene	50.0	47.86		ug/Kg		96	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.42		ug/Kg		83	70 - 130
1,2-Dibromoethane	50.0	47.76		ug/Kg		96	70 - 130
1,2-Dichlorobenzene	50.0	48.87		ug/Kg		98	75 - 120
1,2-Dichloroethane	50.0	50.99		ug/Kg		102	70 - 130
1,2-Dichloropropane	50.0	48.72		ug/Kg		97	79 - 115
1,3,5-Trimethylbenzene	50.0	48.78		ug/Kg		98	70 - 130
1,3-Dichlorobenzene	50.0	48.71		ug/Kg		97	70 - 130
1,3-Dichloropropane	50.0	48.58		ug/Kg		97	70 - 130
1,4-Dichlorobenzene	50.0	48.75		ug/Kg		97	70 - 130
1,4-Dioxane	500	482.0		ug/Kg		96	70 - 130
2,2-Dichloropropane	50.0	49.13		ug/Kg		98	70 - 130
2-Butanone	50.0	43.88		ug/Kg		88	70 - 130
2-Chlorotoluene	50.0	49.83		ug/Kg		100	70 - 130
2-Hexanone	50.0	43.47		ug/Kg		87	70 - 130
4-Chlorotoluene	50.0	49.67		ug/Kg		99	70 - 130
4-Methyl-2-pentanone	50.0	43.90		ug/Kg		88	70 - 130
Acetone	50.0	38.56		ug/Kg		77	70 - 130
Benzene	50.0	46.22		ug/Kg		92	78 - 120
Bromobenzene	50.0	49.22		ug/Kg		98	70 - 130
Bromochloromethane	50.0	48.62		ug/Kg		97	70 - 130
Bromodichloromethane	50.0	51.32		ug/Kg		103	70 - 130
Bromoform	50.0	48.07		ug/Kg		96	70 - 130
Bromomethane	50.0	74.77	*+	ug/Kg		150	70 - 130
Carbon disulfide	50.0	52.26		ug/Kg		105	70 - 130
Carbon tetrachloride	50.0	53.04		ug/Kg		106	49 - 139
Chlorobenzene	50.0	48.91		ug/Kg		98	79 - 120
Chloroethane	50.0	55.62		ug/Kg		111	70 - 130
Chloroform	50.0	49.72		ug/Kg		99	70 - 130
Chloromethane	50.0	62.50		ug/Kg		125	70 - 130
cis-1,2-Dichloroethene	50.0	50.67		ug/Kg		101	70 - 130
cis-1,3-Dichloropropene	50.0	49.25		ug/Kg		99	70 - 130
Dibromochloromethane	50.0	51.57		ug/Kg		103	70 - 130
Dibromomethane	50.0	51.41		ug/Kg		103	70 - 130
Dichlorodifluoromethane	50.0	58.45		ug/Kg		117	70 - 130
Diethyl ether	50.0	47.69		ug/Kg		95	70 - 130
Di-isopropyl ether (DIPE)	50.0	45.48		ug/Kg		91	78 - 120
Ethanol	500	526.1		ug/Kg		105	56 - 140
Ethylbenzene	50.0	49.35		ug/Kg		99	76 - 120

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-108348/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108348**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethyl-t-butyl ether (ETBE)	50.0	42.49		ug/Kg		85	70 - 124
Isopropylbenzene	50.0	49.07		ug/Kg		98	70 - 130
m,p-Xylene	100	97.33		ug/Kg		97	70 - 130
Methylene Chloride	50.0	47.51		ug/Kg		95	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	43.48		ug/Kg		87	70 - 124
Naphthalene	50.0	51.44		ug/Kg		103	70 - 130
n-Butylbenzene	50.0	50.05		ug/Kg		100	77 - 123
N-Propylbenzene	50.0	49.48		ug/Kg		99	70 - 130
o-Xylene	50.0	49.43		ug/Kg		99	70 - 130
p-Isopropyltoluene	50.0	48.70		ug/Kg		97	70 - 130
sec-Butylbenzene	50.0	47.88		ug/Kg		96	70 - 130
Styrene	50.0	47.08		ug/Kg		94	70 - 130
Tert-amyl-methyl ether (TAME)	50.0	43.92		ug/Kg		88	75 - 120
tert-Butyl alcohol (TBA)	250	226.9		ug/Kg		91	68 - 122
tert-Butylbenzene	50.0	48.14		ug/Kg		96	70 - 130
Tetrachloroethene	50.0	49.12		ug/Kg		98	70 - 130
Toluene	50.0	48.71		ug/Kg		97	77 - 120
trans-1,2-Dichloroethene	50.0	50.04		ug/Kg		100	70 - 130
trans-1,3-Dichloropropene	50.0	50.08		ug/Kg		100	70 - 130
Trichloroethene	50.0	50.38		ug/Kg		101	70 - 130
Trichlorofluoromethane	50.0	56.34		ug/Kg		113	70 - 130
Vinyl acetate	50.0	52.24		ug/Kg		104	70 - 130
Vinyl chloride	50.0	53.48		ug/Kg		107	68 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		71 - 155
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	101		79 - 133
Toluene-d8 (Surr)	105		80 - 120

**Lab Sample ID: LCSD 570-108348/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108348**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	49.91		ug/Kg		100	70 - 130	2	20
1,1,1-Trichloroethane	50.0	48.36		ug/Kg		97	70 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	45.66		ug/Kg		91	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.01		ug/Kg		94	70 - 130	3	20
1,1,2-Trichloroethane	50.0	47.10		ug/Kg		94	70 - 130	0	20
1,1-Dichloroethane	50.0	47.06		ug/Kg		94	70 - 130	2	20
1,1-Dichloroethene	50.0	49.93		ug/Kg		100	74 - 122	4	20
1,1-Dichloropropene	50.0	48.36		ug/Kg		97	70 - 130	3	20
1,2,3-Trichlorobenzene	50.0	52.82		ug/Kg		106	70 - 130	2	20
1,2,3-Trichloropropane	50.0	45.82		ug/Kg		92	70 - 130	0	20
1,2,4-Trichlorobenzene	50.0	51.72		ug/Kg		103	70 - 130	4	20
1,2,4-Trimethylbenzene	50.0	46.91		ug/Kg		94	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	41.84		ug/Kg		84	70 - 130	1	20

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-108348/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108348**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,2-Dibromoethane	50.0	47.63		ug/Kg		95	70 - 130	0	20	
1,2-Dichlorobenzene	50.0	48.03		ug/Kg		96	75 - 120	2	20	
1,2-Dichloroethane	50.0	49.55		ug/Kg		99	70 - 130	3	20	
1,2-Dichloropropane	50.0	47.64		ug/Kg		95	79 - 115	2	25	
1,3,5-Trimethylbenzene	50.0	47.85		ug/Kg		96	70 - 130	2	20	
1,3-Dichlorobenzene	50.0	47.71		ug/Kg		95	70 - 130	2	20	
1,3-Dichloropropane	50.0	48.35		ug/Kg		97	70 - 130	0	20	
1,4-Dichlorobenzene	50.0	47.57		ug/Kg		95	70 - 130	2	20	
1,4-Dioxane	500	484.8		ug/Kg		97	70 - 130	1	20	
2,2-Dichloropropane	50.0	47.72		ug/Kg		95	70 - 130	3	20	
2-Butanone	50.0	45.01		ug/Kg		90	70 - 130	3	20	
2-Chlorotoluene	50.0	49.19		ug/Kg		98	70 - 130	1	20	
2-Hexanone	50.0	43.67		ug/Kg		87	70 - 130	0	20	
4-Chlorotoluene	50.0	48.43		ug/Kg		97	70 - 130	3	20	
4-Methyl-2-pentanone	50.0	43.76		ug/Kg		88	70 - 130	0	20	
Acetone	50.0	38.36		ug/Kg		77	70 - 130	1	20	
Benzene	50.0	44.91		ug/Kg		90	78 - 120	3	20	
Bromobenzene	50.0	48.90		ug/Kg		98	70 - 130	1	20	
Bromochloromethane	50.0	47.89		ug/Kg		96	70 - 130	2	20	
Bromodichloromethane	50.0	50.70		ug/Kg		101	70 - 130	1	20	
Bromoform	50.0	48.09		ug/Kg		96	70 - 130	0	20	
Bromomethane	50.0	69.29	*+ me	ug/Kg		139	70 - 130	8	20	
Carbon disulfide	50.0	51.07		ug/Kg		102	70 - 130	2	20	
Carbon tetrachloride	50.0	51.74		ug/Kg		103	49 - 139	2	20	
Chlorobenzene	50.0	47.76		ug/Kg		96	79 - 120	2	20	
Chloroethane	50.0	55.81		ug/Kg		112	70 - 130	0	20	
Chloroform	50.0	48.71		ug/Kg		97	70 - 130	2	20	
Chloromethane	50.0	61.71		ug/Kg		123	70 - 130	1	20	
cis-1,2-Dichloroethene	50.0	49.55		ug/Kg		99	70 - 130	2	20	
cis-1,3-Dichloropropene	50.0	47.83		ug/Kg		96	70 - 130	3	20	
Dibromochloromethane	50.0	50.91		ug/Kg		102	70 - 130	1	20	
Dibromomethane	50.0	50.76		ug/Kg		102	70 - 130	1	20	
Dichlorodifluoromethane	50.0	58.49		ug/Kg		117	70 - 130	0	20	
Diethyl ether	50.0	46.72		ug/Kg		93	70 - 130	2	20	
Di-isopropyl ether (DIPE)	50.0	44.71		ug/Kg		89	78 - 120	2	20	
Ethanol	500	547.7		ug/Kg		110	56 - 140	4	20	
Ethylbenzene	50.0	48.52		ug/Kg		97	76 - 120	2	20	
Ethyl-t-butyl ether (ETBE)	50.0	41.78		ug/Kg		84	70 - 124	2	20	
Isopropylbenzene	50.0	48.02		ug/Kg		96	70 - 130	2	20	
m,p-Xylene	100	95.47		ug/Kg		95	70 - 130	2	20	
Methylene Chloride	50.0	46.81		ug/Kg		94	70 - 130	1	20	
Methyl-t-Butyl Ether (MTBE)	50.0	43.10		ug/Kg		86	70 - 124	1	20	
Naphthalene	50.0	50.61		ug/Kg		101	70 - 130	2	20	
n-Butylbenzene	50.0	48.36		ug/Kg		97	77 - 123	3	25	
N-Propylbenzene	50.0	48.30		ug/Kg		97	70 - 130	2	20	
o-Xylene	50.0	48.97		ug/Kg		98	70 - 130	1	20	
p-Isopropyltoluene	50.0	47.23		ug/Kg		94	70 - 130	3	20	
sec-Butylbenzene	50.0	46.39		ug/Kg		93	70 - 130	3	20	
Styrene	50.0	46.82		ug/Kg		94	70 - 130	1	20	

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-108348/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108348**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl-methyl ether (TAME)	50.0	43.34		ug/Kg		87	75 - 120	1	20
tert-Butyl alcohol (TBA)	250	241.6		ug/Kg		97	68 - 122	6	20
tert-Butylbenzene	50.0	46.93		ug/Kg		94	70 - 130	3	20
Tetrachloroethene	50.0	47.87		ug/Kg		96	70 - 130	3	20
Toluene	50.0	47.46		ug/Kg		95	77 - 120	3	20
trans-1,2-Dichloroethene	50.0	48.98		ug/Kg		98	70 - 130	2	20
trans-1,3-Dichloropropene	50.0	49.45		ug/Kg		99	70 - 130	1	20
Trichloroethene	50.0	48.83		ug/Kg		98	70 - 130	3	20
Trichlorofluoromethane	50.0	56.63		ug/Kg		113	70 - 130	1	20
Vinyl acetate	50.0	51.13		ug/Kg		102	70 - 130	2	20
Vinyl chloride	50.0	53.16		ug/Kg		106	68 - 122	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	102		71 - 155
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		79 - 133
Toluene-d8 (Surr)	104		80 - 120

**Lab Sample ID: MB 570-108479/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108479**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100	29	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,1,1-Trichloroethane	ND		100	23	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,1,2,2-Tetrachloroethane	ND		200	54	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	46	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,1,2-Trichloroethane	ND		100	46	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,1-Dichloroethane	ND		100	28	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,1-Dichloroethene	ND		100	26	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,1-Dichloropropene	ND		200	39	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2,3-Trichlorobenzene	ND		200	100	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2,3-Trichloropropane	ND		200	42	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2,4-Trichlorobenzene	ND		200	41	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2,4-Trimethylbenzene	ND		200	60	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2-Dibromo-3-Chloropropane	ND		1000	680	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2-Dibromoethane	ND		100	21	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2-Dichlorobenzene	ND		100	25	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2-Dichloroethane	ND		100	28	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,2-Dichloropropane	ND		100	28	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,3,5-Trimethylbenzene	ND		200	60	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,3-Butadiene	ND		100	30	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,3-Dichlorobenzene	ND		100	25	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,3-Dichloropropane	ND		100	29	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,4-Dichlorobenzene	ND		100	31	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
1,4-Dioxane	ND		10000	3000	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
2,2,4-Trimethylpentane	ND		100	30	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
2,2-Dichloropropane	ND		500	27	ug/Kg		11/10/20 11:55	11/10/20 13:13	50

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108479/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108479**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Butanone	ND		2000	450	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
2-Chloroethyl vinyl ether	ND		2000	980	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
2-Chlorotoluene	ND		100	25	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
2-Hexanone	ND		2000	310	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
2-Methyl-2-butanol (TAA)	ND		5000	2100	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
4-Chlorotoluene	ND		100	24	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
4-Methyl-2-pentanone	ND		2000	290	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Acetone	ND		2000	980	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Acetonitrile	ND		4000	660	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Acrolein	ND		5000	570	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Acrylonitrile	ND		2500	490	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Benzene	ND		100	26	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Bromobenzene	ND		100	21	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Bromochloromethane	ND		200	44	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Bromodichloromethane	ND		100	16	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Bromoform	ND		500	130	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Bromomethane	ND		2000	660	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Carbon disulfide	ND		1000	40	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Carbon tetrachloride	ND		100	30	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Chlorobenzene	ND		100	27	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Chloroethane	ND		200	150	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Chloroform	ND		100	59	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Chloromethane	ND		2000	150	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
cis-1,2-Dichloroethene	ND		100	34	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
cis-1,3-Dichloropropene	ND		100	35	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Cyclohexane	ND		2000	370	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Dibromochloromethane	ND		200	27	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Dibromomethane	ND		100	30	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Dichlorodifluoromethane	ND		200	45	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Diethyl ether	ND		2000	160	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Di-isopropyl ether (DIPE)	ND		100	50	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Ethanol	ND		25000	6600	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Ethylbenzene	ND		100	21	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Ethyl-t-butyl ether (ETBE)	ND		100	24	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Hexachloro-1,3-butadiene	ND		500	170	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Hexane	ND		500	160	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Iodomethane	ND		5000	2200	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Isobutyl alcohol	ND		5000	4500	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Isopropanol	ND		12000	6000	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Isopropylbenzene	ND		100	60	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
m,p-Xylene	ND		200	47	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Methylene Chloride	ND		1000	310	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Methyl-t-Butyl Ether (MTBE)	ND		200	19	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Naphthalene	ND		1000	520	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
n-Butylbenzene	ND		100	21	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
N-Propylbenzene	ND		200	60	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
o-Xylene	ND		100	60	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
p-Isopropyltoluene	ND		100	70	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
sec-Butylbenzene	ND		100	60	ug/Kg		11/10/20 11:55	11/10/20 13:13	50

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108479/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108345**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108479**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		100	70	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Tert-amyl-methyl ether (TAME)	ND		100	19	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
tert-Butyl alcohol (TBA)	ND		2000	700	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
tert-Butylbenzene	ND		100	25	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Tetrachloroethene	ND		100	22	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Tetrahydrofuran	ND		2000	380	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Thiophene	ND		500	130	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Toluene	ND		100	60	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
trans-1,2-Dichloroethene	ND		100	30	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
trans-1,3-Dichloropropene	ND		200	28	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
trans-1,4-Dichloro-2-butene	ND		1000	310	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Trichloroethene	ND		200	39	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Trichlorofluoromethane	ND		1000	27	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Vinyl acetate	ND		1000	390	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Vinyl chloride	ND		100	38	ug/Kg		11/10/20 11:55	11/10/20 13:13	50
Xylenes, Total	ND		300	70	ug/Kg		11/10/20 11:55	11/10/20 13:13	50

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				11/10/20 11:55	11/10/20 13:13	50

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		71 - 155	11/10/20 11:55	11/10/20 13:13	50
4-Bromofluorobenzene (Surr)	104		80 - 120	11/10/20 11:55	11/10/20 13:13	50
Dibromofluoromethane (Surr)	91		79 - 133	11/10/20 11:55	11/10/20 13:13	50
Toluene-d8 (Surr)	100		80 - 120	11/10/20 11:55	11/10/20 13:13	50

**Lab Sample ID: MB 570-108483/6**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/10/20 23:29	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/10/20 23:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/10/20 23:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/10/20 23:29	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/10/20 23:29	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/10/20 23:29	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/10/20 23:29	1
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/10/20 23:29	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/10/20 23:29	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/10/20 23:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/10/20 23:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			11/10/20 23:29	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/10/20 23:29	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/10/20 23:29	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/10/20 23:29	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/10/20 23:29	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/10/20 23:29	1

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108483/6**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.34	ug/L			11/10/20 23:29	1
1,3-Butadiene	ND		25	3.5	ug/L			11/10/20 23:29	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/10/20 23:29	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/10/20 23:29	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/10/20 23:29	1
1,4-Dioxane	ND		100	25	ug/L			11/10/20 23:29	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/10/20 23:29	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/10/20 23:29	1
2-Butanone	ND		20	3.6	ug/L			11/10/20 23:29	1
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/10/20 23:29	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/10/20 23:29	1
2-Hexanone	ND		10	3.1	ug/L			11/10/20 23:29	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/10/20 23:29	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/10/20 23:29	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/10/20 23:29	1
Acetone	ND		20	10	ug/L			11/10/20 23:29	1
Acetonitrile	ND		50	4.7	ug/L			11/10/20 23:29	1
Acrolein	ND		50	6.3	ug/L			11/10/20 23:29	1
Acrylonitrile	ND		20	4.0	ug/L			11/10/20 23:29	1
Benzene	ND		0.50	0.20	ug/L			11/10/20 23:29	1
Bromobenzene	ND		1.0	0.30	ug/L			11/10/20 23:29	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/10/20 23:29	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/10/20 23:29	1
Bromoform	ND		5.0	1.5	ug/L			11/10/20 23:29	1
Bromomethane	ND		25	15	ug/L			11/10/20 23:29	1
Carbon disulfide	ND		10	0.40	ug/L			11/10/20 23:29	1
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/10/20 23:29	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/10/20 23:29	1
Chloroethane	ND		5.0	2.4	ug/L			11/10/20 23:29	1
Chloroform	ND		1.0	0.50	ug/L			11/10/20 23:29	1
Chloromethane	ND		10	2.3	ug/L			11/10/20 23:29	1
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/10/20 23:29	1
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/10/20 23:29	1
Cyclohexane	ND		10	3.7	ug/L			11/10/20 23:29	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/10/20 23:29	1
Dibromomethane	ND		1.0	0.38	ug/L			11/10/20 23:29	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/10/20 23:29	1
Diethyl ether	ND		10	1.5	ug/L			11/10/20 23:29	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/10/20 23:29	1
Ethanol	ND		100	60	ug/L			11/10/20 23:29	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/10/20 23:29	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/10/20 23:29	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/10/20 23:29	1
Hexane	ND		5.0	2.3	ug/L			11/10/20 23:29	1
Iodomethane	ND		50	32	ug/L			11/10/20 23:29	1
Isobutyl alcohol	ND		50	42	ug/L			11/10/20 23:29	1
Isopropanol	ND		130	60	ug/L			11/10/20 23:29	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/10/20 23:29	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/10/20 23:29	1

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108483/6**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		10	4.0	ug/L			11/10/20 23:29	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/10/20 23:29	1
Naphthalene	ND		10	5.0	ug/L			11/10/20 23:29	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/10/20 23:29	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/10/20 23:29	1
o-Xylene	ND		1.0	0.26	ug/L			11/10/20 23:29	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/10/20 23:29	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/10/20 23:29	1
Styrene	ND		1.0	0.38	ug/L			11/10/20 23:29	1
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/10/20 23:29	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/10/20 23:29	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/10/20 23:29	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/10/20 23:29	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/10/20 23:29	1
Thiophene	ND		10	0.90	ug/L			11/10/20 23:29	1
Toluene	ND		1.0	0.34	ug/L			11/10/20 23:29	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/10/20 23:29	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/10/20 23:29	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/10/20 23:29	1
Trichloroethene	ND		1.0	0.35	ug/L			11/10/20 23:29	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/10/20 23:29	1
Vinyl acetate	ND		10	4.6	ug/L			11/10/20 23:29	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/10/20 23:29	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/10/20 23:29	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Tentatively Identified Compound</i>	None		ug/L					11/10/20 23:29	1

<i>Surrogate</i>	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		80 - 129		11/10/20 23:29	1
<i>4-Bromofluorobenzene (Surr)</i>	98		77 - 120		11/10/20 23:29	1
<i>Dibromofluoromethane (Surr)</i>	94		80 - 128		11/10/20 23:29	1
<i>Toluene-d8 (Surr)</i>	99		80 - 120		11/10/20 23:29	1

**Lab Sample ID: LCS 570-108483/3**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.94		ug/L		100	80 - 126
1,1,1-Trichloroethane	50.0	47.23		ug/L		94	73 - 127
1,1,2,2-Tetrachloroethane	50.0	46.55		ug/L		93	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.45		ug/L		93	53 - 155
1,1,2-Trichloroethane	50.0	47.72		ug/L		95	80 - 120
1,1-Dichloroethane	50.0	47.32		ug/L		95	73 - 127
1,1-Dichloroethene	50.0	46.26		ug/L		93	64 - 136
1,1-Dichloropropene	50.0	48.17		ug/L		96	73 - 127

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-108483/3**

**Matrix: Water**

**Analysis Batch: 108483**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	50.0	51.76		ug/L		104	76 - 130
1,2,3-Trichloropropane	50.0	43.05		ug/L		86	77 - 125
1,2,4-Trichlorobenzene	50.0	50.00		ug/L		100	74 - 134
1,2,4-Trimethylbenzene	50.0	44.24		ug/L		88	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.42		ug/L		87	68 - 128
1,2-Dibromoethane	50.0	50.10		ug/L		100	80 - 120
1,2-Dichlorobenzene	50.0	47.93		ug/L		96	80 - 120
1,2-Dichloroethane	50.0	51.57		ug/L		103	75 - 123
1,2-Dichloropropane	50.0	48.77		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	50.0	46.17		ug/L		92	80 - 126
1,3-Dichlorobenzene	50.0	46.21		ug/L		92	80 - 120
1,3-Dichloropropane	50.0	46.77		ug/L		94	80 - 120
1,4-Dichlorobenzene	50.0	46.71		ug/L		93	80 - 120
1,4-Dioxane	500	552.0		ug/L		110	64 - 130
2,2-Dichloropropane	50.0	46.64		ug/L		93	53 - 155
2-Butanone	50.0	49.95		ug/L		100	53 - 137
2-Chlorotoluene	50.0	47.03		ug/L		94	80 - 121
2-Hexanone	50.0	45.16		ug/L		90	59 - 131
2-Methyl-2-butanol (TAA)	250	240.6		ug/L		96	60 - 120
4-Chlorotoluene	50.0	43.63		ug/L		87	80 - 120
4-Methyl-2-pentanone	50.0	47.65		ug/L		95	68 - 122
Acetone	50.0	42.95		ug/L		86	50 - 150
Benzene	50.0	49.64		ug/L		99	78 - 120
Bromobenzene	50.0	50.27		ug/L		101	80 - 120
Bromochloromethane	50.0	53.01		ug/L		106	77 - 125
Bromodichloromethane	50.0	51.35		ug/L		103	80 - 125
Bromoform	50.0	50.09		ug/L		100	68 - 128
Bromomethane	50.0	55.04		ug/L		110	50 - 150
Carbon disulfide	50.0	44.33		ug/L		89	50 - 150
Carbon tetrachloride	50.0	51.79		ug/L		104	67 - 139
Chlorobenzene	50.0	48.25		ug/L		97	80 - 120
Chloroethane	50.0	52.50		ug/L		105	64 - 130
Chloroform	50.0	50.96		ug/L		102	77 - 120
Chloromethane	50.0	45.92		ug/L		92	56 - 128
cis-1,2-Dichloroethene	50.0	50.11		ug/L		100	78 - 120
cis-1,3-Dichloropropene	50.0	50.30		ug/L		101	80 - 129
Dibromochloromethane	50.0	49.36		ug/L		99	77 - 125
Dibromomethane	50.0	52.44		ug/L		105	80 - 120
Dichlorodifluoromethane	50.0	56.39		ug/L		113	50 - 150
Diethyl ether	50.0	47.70		ug/L		95	70 - 130
Di-isopropyl ether (DIPE)	50.0	44.93		ug/L		90	72 - 132
Ethanol	500	470.1		ug/L		94	56 - 150
Ethylbenzene	50.0	46.88		ug/L		94	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	47.24		ug/L		94	74 - 122
Isopropylbenzene	50.0	47.43		ug/L		95	80 - 126
m,p-Xylene	100	94.08		ug/L		94	80 - 125
Methylene Chloride	50.0	44.89		ug/L		90	73 - 127
Methyl-t-Butyl Ether (MTBE)	50.0	47.96		ug/L		96	77 - 120
Naphthalene	50.0	51.64		ug/L		103	64 - 136

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-108483/3**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Butylbenzene	50.0	43.53		ug/L		87	78 - 132
N-Propylbenzene	50.0	46.03		ug/L		92	80 - 125
o-Xylene	50.0	47.98		ug/L		96	80 - 125
p-Isopropyltoluene	50.0	45.55		ug/L		91	80 - 129
sec-Butylbenzene	50.0	45.00		ug/L		90	80 - 125
Styrene	50.0	47.23		ug/L		94	80 - 122
Tert-amyl-methyl ether (TAME)	50.0	49.85		ug/L		100	74 - 122
tert-Butyl alcohol (TBA)	250	252.6		ug/L		101	80 - 126
tert-Butylbenzene	50.0	47.29		ug/L		95	80 - 125
Tetrachloroethene	50.0	48.99		ug/L		98	54 - 144
Toluene	50.0	50.30		ug/L		101	80 - 122
trans-1,2-Dichloroethene	50.0	48.49		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	45.94		ug/L		92	78 - 132
Trichloroethene	50.0	50.33		ug/L		101	77 - 125
Trichlorofluoromethane	50.0	57.62		ug/L		115	69 - 141
Vinyl acetate	50.0	49.33		ug/L		99	50 - 150
Vinyl chloride	50.0	55.95		ug/L		112	63 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 129
4-Bromofluorobenzene (Surr)	99		77 - 120
Dibromofluoromethane (Surr)	98		80 - 128
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: LCSD 570-108483/4**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.46		ug/L		101	80 - 126	1	30
1,1,1-Trichloroethane	50.0	48.10		ug/L		96	73 - 127	2	30
1,1,2,2-Tetrachloroethane	50.0	46.66		ug/L		93	76 - 120	0	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.03		ug/L		94	53 - 155	1	30
1,1,2-Trichloroethane	50.0	47.86		ug/L		96	80 - 120	0	30
1,1-Dichloroethane	50.0	48.27		ug/L		97	73 - 127	2	30
1,1-Dichloroethene	50.0	47.40		ug/L		95	64 - 136	2	30
1,1-Dichloropropene	50.0	49.17		ug/L		98	73 - 127	2	30
1,2,3-Trichlorobenzene	50.0	53.47		ug/L		107	76 - 130	3	30
1,2,3-Trichloropropane	50.0	41.36		ug/L		83	77 - 125	4	30
1,2,4-Trichlorobenzene	50.0	52.04		ug/L		104	74 - 134	4	30
1,2,4-Trimethylbenzene	50.0	46.04		ug/L		92	80 - 123	4	30
1,2-Dibromo-3-Chloropropane	50.0	43.23		ug/L		86	68 - 128	0	30
1,2-Dibromoethane	50.0	49.87		ug/L		100	80 - 120	0	30
1,2-Dichlorobenzene	50.0	48.93		ug/L		98	80 - 120	2	20
1,2-Dichloroethane	50.0	51.45		ug/L		103	75 - 123	0	24
1,2-Dichloropropane	50.0	49.00		ug/L		98	80 - 120	0	20
1,3,5-Trimethylbenzene	50.0	47.33		ug/L		95	80 - 126	2	20
1,3-Dichlorobenzene	50.0	47.88		ug/L		96	80 - 120	4	20

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-108483/4**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichloropropane	50.0	46.11		ug/L		92	80 - 120	1	20
1,4-Dichlorobenzene	50.0	47.64		ug/L		95	80 - 120	2	20
1,4-Dioxane	500	517.6		ug/L		104	64 - 130	6	30
2,2-Dichloropropane	50.0	47.52		ug/L		95	53 - 155	2	30
2-Butanone	50.0	46.50		ug/L		93	53 - 137	7	30
2-Chlorotoluene	50.0	47.71		ug/L		95	80 - 121	1	20
2-Hexanone	50.0	44.89		ug/L		90	59 - 131	1	30
2-Methyl-2-butanol (TAA)	250	229.6		ug/L		92	60 - 120	5	20
4-Chlorotoluene	50.0	45.10		ug/L		90	80 - 120	3	20
4-Methyl-2-pentanone	50.0	46.94		ug/L		94	68 - 122	1	30
Acetone	50.0	42.37		ug/L		85	50 - 150	1	30
Benzene	50.0	49.69		ug/L		99	78 - 120	0	21
Bromobenzene	50.0	50.68		ug/L		101	80 - 120	1	20
Bromochloromethane	50.0	53.51		ug/L		107	77 - 125	1	22
Bromodichloromethane	50.0	51.06		ug/L		102	80 - 125	1	20
Bromoform	50.0	50.85		ug/L		102	68 - 128	2	30
Bromomethane	50.0	55.48		ug/L		111	50 - 150	1	30
Carbon disulfide	50.0	45.43		ug/L		91	50 - 150	2	30
Carbon tetrachloride	50.0	53.54		ug/L		107	67 - 139	3	30
Chlorobenzene	50.0	48.58		ug/L		97	80 - 120	1	20
Chloroethane	50.0	54.66		ug/L		109	64 - 130	4	30
Chloroform	50.0	52.30		ug/L		105	77 - 120	3	23
Chloromethane	50.0	47.63		ug/L		95	56 - 128	4	30
cis-1,2-Dichloroethene	50.0	50.96		ug/L		102	78 - 120	2	23
cis-1,3-Dichloropropene	50.0	49.82		ug/L		100	80 - 129	1	21
Dibromochloromethane	50.0	49.37		ug/L		99	77 - 125	0	21
Dibromomethane	50.0	51.73		ug/L		103	80 - 120	1	20
Dichlorodifluoromethane	50.0	56.86		ug/L		114	50 - 150	1	30
Diethyl ether	50.0	47.78		ug/L		96	70 - 130	0	29
Di-isopropyl ether (DIPE)	50.0	45.83		ug/L		92	72 - 132	2	29
Ethanol	500	466.2		ug/L		93	56 - 150	1	30
Ethylbenzene	50.0	47.65		ug/L		95	80 - 120	2	20
Ethyl-t-butyl ether (ETBE)	50.0	47.79		ug/L		96	74 - 122	1	27
Isopropylbenzene	50.0	47.96		ug/L		96	80 - 126	1	20
m,p-Xylene	100	95.27		ug/L		95	80 - 125	1	30
Methylene Chloride	50.0	44.83		ug/L		90	73 - 127	0	25
Methyl-t-Butyl Ether (MTBE)	50.0	48.32		ug/L		97	77 - 120	1	24
Naphthalene	50.0	52.34		ug/L		105	64 - 136	1	30
n-Butylbenzene	50.0	44.97		ug/L		90	78 - 132	3	23
N-Propylbenzene	50.0	47.01		ug/L		94	80 - 125	2	20
o-Xylene	50.0	48.47		ug/L		97	80 - 125	1	20
p-Isopropyltoluene	50.0	46.89		ug/L		94	80 - 129	3	20
sec-Butylbenzene	50.0	46.14		ug/L		92	80 - 125	3	20
Styrene	50.0	47.58		ug/L		95	80 - 122	1	20
Tert-amyl-methyl ether (TAME)	50.0	49.54		ug/L		99	74 - 122	1	28
tert-Butyl alcohol (TBA)	250	251.6		ug/L		101	80 - 126	0	30
tert-Butylbenzene	50.0	48.21		ug/L		96	80 - 125	2	20
Tetrachloroethene	50.0	49.87		ug/L		100	54 - 144	2	30
Toluene	50.0	50.62		ug/L		101	80 - 122	1	20

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-108483/4**  
**Matrix: Water**  
**Analysis Batch: 108483**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	50.0	49.59		ug/L		99	70 - 130	2	30
trans-1,3-Dichloropropene	50.0	45.91		ug/L		92	78 - 132	0	22
Trichloroethene	50.0	50.04		ug/L		100	77 - 125	1	22
Trichlorofluoromethane	50.0	58.11		ug/L		116	69 - 141	1	30
Vinyl acetate	50.0	50.74		ug/L		101	50 - 150	3	30
Vinyl chloride	50.0	56.91		ug/L		114	63 - 135	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		80 - 129
4-Bromofluorobenzene (Surr)	98		77 - 120
Dibromofluoromethane (Surr)	99		80 - 128
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: MB 570-108690/3-A**  
**Matrix: Solid**  
**Analysis Batch: 108673**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2,4-Trimethylbenzene	ND		2.0	0.60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2-Dibromo-3-Chloropropane	ND		10	6.8	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,3,5-Trimethylbenzene	ND		2.0	0.60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,3-Butadiene	ND		1.0	0.30	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
1,4-Dioxane	ND		100	30	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
2,2,4-Trimethylpentane	ND		1.0	0.30	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
2-Butanone	ND		20	4.5	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
2-Chloroethyl vinyl ether	ND		20	9.8	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
2-Hexanone	ND		20	3.1	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
2-Methyl-2-butanol (TAA)	ND		50	21	ug/Kg		11/11/20 07:50	11/11/20 10:19	1

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108690/3-A**  
**Matrix: Solid**  
**Analysis Batch: 108673**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108690**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Chlorotoluene	ND		1.0	0.24	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
4-Methyl-2-pentanone	ND		20	2.9	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Acetone	ND		20	9.8	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Acetonitrile	ND		40	6.7	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Acrolein	ND		50	5.7	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Acrylonitrile	ND		25	4.9	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Benzene	ND		1.0	0.26	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Bromobenzene	ND		1.0	0.21	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Bromodichloromethane	ND		1.0	0.16	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Bromoform	ND		5.0	1.3	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Bromomethane	ND		20	6.6	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Carbon disulfide	ND		10	0.40	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Chlorobenzene	ND		1.0	0.27	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Chloroethane	ND		2.0	1.5	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Chloroform	ND		1.0	0.59	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Chloromethane	ND		20	1.5	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Cyclohexane	ND		20	3.7	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Dibromomethane	ND		1.0	0.31	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Diethyl ether	ND		20	1.6	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Di-isopropyl ether (DIPE)	ND		1.0	0.50	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Ethanol	ND		250	66	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Ethyl-t-butyl ether (ETBE)	ND		1.0	0.24	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Hexachloro-1,3-butadiene	ND		5.0	1.7	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Hexane	ND		5.0	1.6	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Iodomethane	ND		50	22	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Isobutyl alcohol	ND		50	45	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Isopropanol	ND		130	60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Isopropylbenzene	ND		1.0	0.60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Methylene Chloride	ND		10	3.1	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Naphthalene	ND		10	5.2	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
N-Propylbenzene	ND		2.0	0.60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
o-Xylene	ND		1.0	0.60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
p-Isopropyltoluene	ND		1.0	0.70	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
sec-Butylbenzene	ND		1.0	0.60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Styrene	ND		1.0	0.70	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Tert-amyl-methyl ether (TAME)	ND		1.0	0.19	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
tert-Butyl alcohol (TBA)	ND		20	7.0	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg		11/11/20 07:50	11/11/20 10:19	1

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108690/3-A**  
**Matrix: Solid**  
**Analysis Batch: 108673**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108690**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		20	3.8	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Thiophene	ND		5.0	1.3	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Toluene	ND		1.0	0.60	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
trans-1,4-Dichloro-2-butene	ND		10	3.1	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Trichloroethene	ND		2.0	0.39	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Vinyl acetate	ND		10	3.9	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Vinyl chloride	ND		1.0	0.38	ug/Kg		11/11/20 07:50	11/11/20 10:19	1
Xylenes, Total	ND		3.0	0.70	ug/Kg		11/11/20 07:50	11/11/20 10:19	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/Kg				11/11/20 07:50	11/11/20 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		71 - 155	11/11/20 07:50	11/11/20 10:19	1
4-Bromofluorobenzene (Surr)	87		80 - 120	11/11/20 07:50	11/11/20 10:19	1
Dibromofluoromethane (Surr)	114		79 - 133	11/11/20 07:50	11/11/20 10:19	1
Toluene-d8 (Surr)	98		80 - 120	11/11/20 07:50	11/11/20 10:19	1

**Lab Sample ID: LCS 570-108690/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108673**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	50.0	55.40		ug/Kg		111	70 - 130
1,1,1-Trichloroethane	50.0	51.98		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	40.69		ug/Kg		81	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.32		ug/Kg		93	70 - 130
1,1,2-Trichloroethane	50.0	49.20		ug/Kg		98	70 - 130
1,1-Dichloroethane	50.0	44.16		ug/Kg		88	70 - 130
1,1-Dichloroethene	50.0	46.62		ug/Kg		93	74 - 122
1,1-Dichloropropene	50.0	47.59		ug/Kg		95	70 - 130
1,2,3-Trichlorobenzene	50.0	51.16		ug/Kg		102	70 - 130
1,2,3-Trichloropropane	50.0	48.90		ug/Kg		98	70 - 130
1,2,4-Trichlorobenzene	50.0	47.64		ug/Kg		95	70 - 130
1,2,4-Trimethylbenzene	50.0	48.31		ug/Kg		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	44.69		ug/Kg		89	70 - 130
1,2-Dibromoethane	50.0	50.56		ug/Kg		101	70 - 130
1,2-Dichlorobenzene	50.0	50.05		ug/Kg		100	75 - 120
1,2-Dichloroethane	50.0	53.00		ug/Kg		106	70 - 130
1,2-Dichloropropane	50.0	45.84		ug/Kg		92	79 - 115
1,3,5-Trimethylbenzene	50.0	53.29		ug/Kg		107	70 - 130
1,3-Dichlorobenzene	50.0	50.17		ug/Kg		100	70 - 130
1,3-Dichloropropane	50.0	47.09		ug/Kg		94	70 - 130
1,4-Dichlorobenzene	50.0	48.59		ug/Kg		97	70 - 130

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-108690/1-A**

**Matrix: Solid**

**Analysis Batch: 108673**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 108690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	500	456.1		ug/Kg		91	70 - 130
2,2-Dichloropropane	50.0	51.66		ug/Kg		103	70 - 130
2-Butanone	50.0	41.54		ug/Kg		83	70 - 130
2-Chlorotoluene	50.0	51.98		ug/Kg		104	70 - 130
2-Hexanone	50.0	39.80		ug/Kg		80	70 - 130
2-Methyl-2-butanol (TAA)	250	220.5		ug/Kg		88	80 - 120
4-Chlorotoluene	50.0	46.16		ug/Kg		92	70 - 130
4-Methyl-2-pentanone	50.0	40.65		ug/Kg		81	70 - 130
Acetone	50.0	34.60	*- me	ug/Kg		69	70 - 130
Benzene	50.0	46.90		ug/Kg		94	78 - 120
Bromobenzene	50.0	53.86		ug/Kg		108	70 - 130
Bromochloromethane	50.0	52.34		ug/Kg		105	70 - 130
Bromodichloromethane	50.0	54.96		ug/Kg		110	70 - 130
Bromoform	50.0	49.69		ug/Kg		99	70 - 130
Bromomethane	50.0	49.12		ug/Kg		98	70 - 130
Carbon disulfide	50.0	45.43		ug/Kg		91	70 - 130
Carbon tetrachloride	50.0	54.98		ug/Kg		110	49 - 139
Chlorobenzene	50.0	50.91		ug/Kg		102	79 - 120
Chloroethane	50.0	47.33		ug/Kg		95	70 - 130
Chloroform	50.0	51.32		ug/Kg		103	70 - 130
Chloromethane	50.0	43.55		ug/Kg		87	70 - 130
cis-1,2-Dichloroethene	50.0	48.79		ug/Kg		98	70 - 130
cis-1,3-Dichloropropene	50.0	48.93		ug/Kg		98	70 - 130
Dibromochloromethane	50.0	55.31		ug/Kg		111	70 - 130
Dibromomethane	50.0	52.34		ug/Kg		105	70 - 130
Dichlorodifluoromethane	50.0	58.01		ug/Kg		116	70 - 130
Diethyl ether	50.0	44.52		ug/Kg		89	70 - 130
Di-isopropyl ether (DIPE)	50.0	41.25		ug/Kg		83	78 - 120
Ethanol	500	489.6		ug/Kg		98	56 - 140
Ethylbenzene	50.0	50.51		ug/Kg		101	76 - 120
Ethyl-t-butyl ether (ETBE)	50.0	40.58		ug/Kg		81	70 - 124
Isopropylbenzene	50.0	52.37		ug/Kg		105	70 - 130
m,p-Xylene	100	103.6		ug/Kg		104	70 - 130
Methylene Chloride	50.0	44.91		ug/Kg		90	70 - 130
Methyl-t-Butyl Ether (MTBE)	50.0	41.96		ug/Kg		84	70 - 124
Naphthalene	50.0	38.92		ug/Kg		78	70 - 130
n-Butylbenzene	50.0	46.53		ug/Kg		93	77 - 123
N-Propylbenzene	50.0	51.44		ug/Kg		103	70 - 130
o-Xylene	50.0	51.49		ug/Kg		103	70 - 130
p-Isopropyltoluene	50.0	49.18		ug/Kg		98	70 - 130
sec-Butylbenzene	50.0	47.98		ug/Kg		96	70 - 130
Styrene	50.0	50.08		ug/Kg		100	70 - 130
Tert-amyl-methyl ether (TAME)	50.0	46.29		ug/Kg		93	75 - 120
tert-Butyl alcohol (TBA)	250	252.3		ug/Kg		101	68 - 122
tert-Butylbenzene	50.0	47.99		ug/Kg		96	70 - 130
Tetrachloroethene	50.0	53.15		ug/Kg		106	70 - 130
Toluene	50.0	49.71		ug/Kg		99	77 - 120
trans-1,2-Dichloroethene	50.0	46.68		ug/Kg		93	70 - 130
trans-1,3-Dichloropropene	50.0	52.26		ug/Kg		105	70 - 130

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-108690/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108673**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108690**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	49.31		ug/Kg		99	70 - 130
Trichlorofluoromethane	50.0	58.93		ug/Kg		118	70 - 130
Vinyl acetate	50.0	59.80		ug/Kg		120	70 - 130
Vinyl chloride	50.0	48.53		ug/Kg		97	68 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		71 - 155
4-Bromofluorobenzene (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	105		79 - 133
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: LCSD 570-108690/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108673**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1,2-Tetrachloroethane	50.0	52.89		ug/Kg		106	70 - 130	5	20
1,1,1-Trichloroethane	50.0	49.52		ug/Kg		99	70 - 130	5	20
1,1,1,2-Tetrachloroethane	50.0	40.20		ug/Kg		80	70 - 130	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.10		ug/Kg		84	70 - 130	10	20
1,1,2-Trichloroethane	50.0	46.48		ug/Kg		93	70 - 130	6	20
1,1-Dichloroethane	50.0	42.55		ug/Kg		85	70 - 130	4	20
1,1-Dichloroethene	50.0	43.09		ug/Kg		86	74 - 122	8	20
1,1-Dichloropropene	50.0	45.69		ug/Kg		91	70 - 130	4	20
1,2,3-Trichlorobenzene	50.0	49.64		ug/Kg		99	70 - 130	3	20
1,2,3-Trichloropropane	50.0	47.96		ug/Kg		96	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	45.75		ug/Kg		91	70 - 130	4	20
1,2,4-Trimethylbenzene	50.0	46.06		ug/Kg		92	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	50.0	41.77		ug/Kg		84	70 - 130	7	20
1,2-Dibromoethane	50.0	48.75		ug/Kg		97	70 - 130	4	20
1,2-Dichlorobenzene	50.0	47.48		ug/Kg		95	75 - 120	5	20
1,2-Dichloroethane	50.0	51.60		ug/Kg		103	70 - 130	3	20
1,2-Dichloropropane	50.0	44.44		ug/Kg		89	79 - 115	3	25
1,3,5-Trimethylbenzene	50.0	50.77		ug/Kg		102	70 - 130	5	20
1,3-Dichlorobenzene	50.0	47.84		ug/Kg		96	70 - 130	5	20
1,3-Dichloropropane	50.0	45.44		ug/Kg		91	70 - 130	4	20
1,4-Dichlorobenzene	50.0	46.83		ug/Kg		94	70 - 130	4	20
1,4-Dioxane	500	475.4		ug/Kg		95	70 - 130	4	20
2,2-Dichloropropane	50.0	48.84		ug/Kg		98	70 - 130	6	20
2-Butanone	50.0	40.46		ug/Kg		81	70 - 130	3	20
2-Chlorotoluene	50.0	49.31		ug/Kg		99	70 - 130	5	20
2-Hexanone	50.0	38.74		ug/Kg		77	70 - 130	3	20
2-Methyl-2-butanol (TAA)	250	236.2		ug/Kg		94	80 - 120	7	20
4-Chlorotoluene	50.0	44.66		ug/Kg		89	70 - 130	3	20
4-Methyl-2-pentanone	50.0	39.97		ug/Kg		80	70 - 130	2	20
Acetone	50.0	34.67	*- me	ug/Kg		69	70 - 130	0	20
Benzene	50.0	45.41		ug/Kg		91	78 - 120	3	20
Bromobenzene	50.0	51.33		ug/Kg		103	70 - 130	5	20

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-108690/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108673**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108690**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane	50.0	49.72		ug/Kg		99	70 - 130	5	20
Bromodichloromethane	50.0	53.29		ug/Kg		107	70 - 130	3	20
Bromoform	50.0	47.78		ug/Kg		96	70 - 130	4	20
Bromomethane	50.0	47.86		ug/Kg		96	70 - 130	3	20
Carbon disulfide	50.0	42.79		ug/Kg		86	70 - 130	6	20
Carbon tetrachloride	50.0	52.24		ug/Kg		104	49 - 139	5	20
Chlorobenzene	50.0	48.73		ug/Kg		97	79 - 120	4	20
Chloroethane	50.0	48.64		ug/Kg		97	70 - 130	3	20
Chloroform	50.0	49.78		ug/Kg		100	70 - 130	3	20
Chloromethane	50.0	44.19		ug/Kg		88	70 - 130	1	20
cis-1,2-Dichloroethene	50.0	47.11		ug/Kg		94	70 - 130	4	20
cis-1,3-Dichloropropene	50.0	46.82		ug/Kg		94	70 - 130	4	20
Dibromochloromethane	50.0	53.24		ug/Kg		106	70 - 130	4	20
Dibromomethane	50.0	50.80		ug/Kg		102	70 - 130	3	20
Dichlorodifluoromethane	50.0	59.13		ug/Kg		118	70 - 130	2	20
Diethyl ether	50.0	44.40		ug/Kg		89	70 - 130	0	20
Di-isopropyl ether (DIPE)	50.0	39.96		ug/Kg		80	78 - 120	3	20
Ethanol	500	471.3		ug/Kg		94	56 - 140	4	20
Ethylbenzene	50.0	47.56		ug/Kg		95	76 - 120	6	20
Ethyl-t-butyl ether (ETBE)	50.0	40.05		ug/Kg		80	70 - 124	1	20
Isopropylbenzene	50.0	49.60		ug/Kg		99	70 - 130	5	20
m,p-Xylene	100	99.81		ug/Kg		100	70 - 130	4	20
Methylene Chloride	50.0	43.98		ug/Kg		88	70 - 130	2	20
Methyl-t-Butyl Ether (MTBE)	50.0	41.39		ug/Kg		83	70 - 124	1	20
Naphthalene	50.0	38.18		ug/Kg		76	70 - 130	2	20
n-Butylbenzene	50.0	44.61		ug/Kg		89	77 - 123	4	25
N-Propylbenzene	50.0	48.64		ug/Kg		97	70 - 130	6	20
o-Xylene	50.0	49.12		ug/Kg		98	70 - 130	5	20
p-Isopropyltoluene	50.0	46.80		ug/Kg		94	70 - 130	5	20
sec-Butylbenzene	50.0	45.94		ug/Kg		92	70 - 130	4	20
Styrene	50.0	47.66		ug/Kg		95	70 - 130	5	20
Tert-amyl-methyl ether (TAME)	50.0	45.73		ug/Kg		91	75 - 120	1	20
tert-Butyl alcohol (TBA)	250	237.4		ug/Kg		95	68 - 122	6	20
tert-Butylbenzene	50.0	46.08		ug/Kg		92	70 - 130	4	20
Tetrachloroethene	50.0	50.47		ug/Kg		101	70 - 130	5	20
Toluene	50.0	47.62		ug/Kg		95	77 - 120	4	20
trans-1,2-Dichloroethene	50.0	45.51		ug/Kg		91	70 - 130	3	20
trans-1,3-Dichloropropene	50.0	50.36		ug/Kg		101	70 - 130	4	20
Trichloroethene	50.0	48.80		ug/Kg		98	70 - 130	1	20
Trichlorofluoromethane	50.0	59.65		ug/Kg		119	70 - 130	1	20
Vinyl acetate	50.0	56.27		ug/Kg		113	70 - 130	6	20
Vinyl chloride	50.0	49.73		ug/Kg		99	68 - 122	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	106		71 - 155
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	104		79 - 133
Toluene-d8 (Surr)	101		80 - 120

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108700/6**  
**Matrix: Water**  
**Analysis Batch: 108700**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0	0.33	ug/L			11/11/20 11:56	1
1,1,1-Trichloroethane	ND		1.0	0.32	ug/L			11/11/20 11:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.20	ug/L			11/11/20 11:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.58	ug/L			11/11/20 11:56	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			11/11/20 11:56	1
1,1-Dichloroethane	ND		1.0	0.37	ug/L			11/11/20 11:56	1
1,1-Dichloroethene	ND		1.0	0.33	ug/L			11/11/20 11:56	1
1,1-Dichloropropene	ND		1.0	0.45	ug/L			11/11/20 11:56	1
1,2,3-Trichlorobenzene	ND		1.0	0.43	ug/L			11/11/20 11:56	1
1,2,3-Trichloropropane	ND		5.0	0.27	ug/L			11/11/20 11:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.36	ug/L			11/11/20 11:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 11:56	1
1,2-Dibromo-3-Chloropropane	ND		10	1.5	ug/L			11/11/20 11:56	1
1,2-Dibromoethane	ND		1.0	0.38	ug/L			11/11/20 11:56	1
1,2-Dichlorobenzene	ND		1.0	0.28	ug/L			11/11/20 11:56	1
1,2-Dichloroethane	ND		0.50	0.22	ug/L			11/11/20 11:56	1
1,2-Dichloropropane	ND		1.0	0.39	ug/L			11/11/20 11:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.34	ug/L			11/11/20 11:56	1
1,3-Butadiene	ND		25	3.5	ug/L			11/11/20 11:56	1
1,3-Dichlorobenzene	ND		1.0	0.26	ug/L			11/11/20 11:56	1
1,3-Dichloropropane	ND		1.0	0.30	ug/L			11/11/20 11:56	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			11/11/20 11:56	1
1,4-Dioxane	ND		100	25	ug/L			11/11/20 11:56	1
2,2,4-Trimethylpentane	ND		10	3.4	ug/L			11/11/20 11:56	1
2,2-Dichloropropane	ND		1.0	0.55	ug/L			11/11/20 11:56	1
2-Butanone	ND		20	3.6	ug/L			11/11/20 11:56	1
2-Chloroethyl vinyl ether	ND		10	6.9	ug/L			11/11/20 11:56	1
2-Chlorotoluene	ND		1.0	0.27	ug/L			11/11/20 11:56	1
2-Hexanone	ND		10	3.1	ug/L			11/11/20 11:56	1
2-Methyl-2-butanol (TAA)	ND		50	32	ug/L			11/11/20 11:56	1
4-Chlorotoluene	ND		1.0	0.32	ug/L			11/11/20 11:56	1
4-Methyl-2-pentanone	ND		10	2.9	ug/L			11/11/20 11:56	1
Acetone	ND		20	10	ug/L			11/11/20 11:56	1
Acetonitrile	ND		50	4.7	ug/L			11/11/20 11:56	1
Acrolein	ND		50	6.3	ug/L			11/11/20 11:56	1
Acrylonitrile	ND		20	4.0	ug/L			11/11/20 11:56	1
Benzene	ND		0.50	0.20	ug/L			11/11/20 11:56	1
Bromobenzene	ND		1.0	0.30	ug/L			11/11/20 11:56	1
Bromochloromethane	ND		2.0	0.30	ug/L			11/11/20 11:56	1
Bromodichloromethane	ND		1.0	0.28	ug/L			11/11/20 11:56	1
Bromoform	ND		5.0	1.5	ug/L			11/11/20 11:56	1
Bromomethane	ND		25	15	ug/L			11/11/20 11:56	1
Carbon disulfide	ND		10	0.40	ug/L			11/11/20 11:56	1
Carbon tetrachloride	ND		0.50	0.34	ug/L			11/11/20 11:56	1
Chlorobenzene	ND		1.0	0.21	ug/L			11/11/20 11:56	1
Chloroethane	ND		5.0	2.4	ug/L			11/11/20 11:56	1
Chloroform	ND		1.0	0.50	ug/L			11/11/20 11:56	1
Chloromethane	ND		10	2.3	ug/L			11/11/20 11:56	1

Eurofins Calscience LLC

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108700/6**  
**Matrix: Water**  
**Analysis Batch: 108700**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.51	ug/L			11/11/20 11:56	1
cis-1,3-Dichloropropene	ND		0.50	0.23	ug/L			11/11/20 11:56	1
Cyclohexane	ND		10	3.7	ug/L			11/11/20 11:56	1
Dibromochloromethane	ND		2.0	0.34	ug/L			11/11/20 11:56	1
Dibromomethane	ND		1.0	0.38	ug/L			11/11/20 11:56	1
Dichlorodifluoromethane	ND		5.0	0.56	ug/L			11/11/20 11:56	1
Diethyl ether	ND		10	1.5	ug/L			11/11/20 11:56	1
Di-isopropyl ether (DIPE)	ND		2.0	0.36	ug/L			11/11/20 11:56	1
Ethanol	ND		100	60	ug/L			11/11/20 11:56	1
Ethylbenzene	ND		1.0	0.33	ug/L			11/11/20 11:56	1
Ethyl-t-butyl ether (ETBE)	ND		2.0	0.49	ug/L			11/11/20 11:56	1
Hexachloro-1,3-butadiene	ND		20	1.3	ug/L			11/11/20 11:56	1
Hexane	ND		5.0	2.3	ug/L			11/11/20 11:56	1
Iodomethane	ND		50	32	ug/L			11/11/20 11:56	1
Isobutyl alcohol	ND		50	42	ug/L			11/11/20 11:56	1
Isopropanol	ND		130	60	ug/L			11/11/20 11:56	1
Isopropylbenzene	ND		1.0	0.37	ug/L			11/11/20 11:56	1
m,p-Xylene	ND		2.0	0.48	ug/L			11/11/20 11:56	1
Methylene Chloride	ND		10	4.0	ug/L			11/11/20 11:56	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0	0.34	ug/L			11/11/20 11:56	1
Naphthalene	ND		10	5.0	ug/L			11/11/20 11:56	1
n-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 11:56	1
N-Propylbenzene	ND		1.0	0.41	ug/L			11/11/20 11:56	1
o-Xylene	ND		1.0	0.26	ug/L			11/11/20 11:56	1
p-Isopropyltoluene	ND		1.0	0.38	ug/L			11/11/20 11:56	1
sec-Butylbenzene	ND		1.0	0.29	ug/L			11/11/20 11:56	1
Styrene	ND		1.0	0.38	ug/L			11/11/20 11:56	1
Tert-amyl-methyl ether (TAME)	ND		2.0	0.56	ug/L			11/11/20 11:56	1
tert-Butyl alcohol (TBA)	ND		10	3.9	ug/L			11/11/20 11:56	1
tert-Butylbenzene	ND		1.0	0.36	ug/L			11/11/20 11:56	1
Tetrachloroethene	ND		1.0	0.35	ug/L			11/11/20 11:56	1
Tetrahydrofuran	ND		20	2.7	ug/L			11/11/20 11:56	1
Thiophene	ND		10	0.90	ug/L			11/11/20 11:56	1
Toluene	ND		1.0	0.34	ug/L			11/11/20 11:56	1
trans-1,2-Dichloroethene	ND		1.0	0.31	ug/L			11/11/20 11:56	1
trans-1,3-Dichloropropene	ND		0.50	0.30	ug/L			11/11/20 11:56	1
trans-1,4-Dichloro-2-butene	ND		20	2.8	ug/L			11/11/20 11:56	1
Trichloroethene	ND		1.0	0.35	ug/L			11/11/20 11:56	1
Trichlorofluoromethane	ND		10	0.36	ug/L			11/11/20 11:56	1
Vinyl acetate	ND		10	4.6	ug/L			11/11/20 11:56	1
Vinyl chloride	ND		0.50	0.26	ug/L			11/11/20 11:56	1
Xylenes, Total	ND		3.0	0.74	ug/L			11/11/20 11:56	1

<i>Tentatively Identified Compound</i>	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
<i>Tentatively Identified Compound</i>	None		ug/L					11/11/20 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		80 - 129					11/11/20 11:56	1

Eurofins Calscience LLC



# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 570-108700/6**  
**Matrix: Water**  
**Analysis Batch: 108700**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		77 - 120		11/11/20 11:56	1
Dibromofluoromethane (Surr)	97		80 - 128		11/11/20 11:56	1
Toluene-d8 (Surr)	99		80 - 120		11/11/20 11:56	1

**Lab Sample ID: LCS 570-108700/3**  
**Matrix: Water**  
**Analysis Batch: 108700**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1,2-Tetrachloroethane	50.0	50.89		ug/L		102	80 - 126
1,1,1-Trichloroethane	50.0	50.05		ug/L		100	73 - 127
1,1,1,2,2-Tetrachloroethane	50.0	45.74		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.36		ug/L		101	53 - 155
1,1,2-Trichloroethane	50.0	48.39		ug/L		97	80 - 120
1,1-Dichloroethane	50.0	50.12		ug/L		100	73 - 127
1,1-Dichloroethene	50.0	49.39		ug/L		99	64 - 136
1,1-Dichloropropene	50.0	51.27		ug/L		103	73 - 127
1,2,3-Trichlorobenzene	50.0	53.57		ug/L		107	76 - 130
1,2,3-Trichloropropane	50.0	42.34		ug/L		85	77 - 125
1,2,4-Trichlorobenzene	50.0	53.97		ug/L		108	74 - 134
1,2,4-Trimethylbenzene	50.0	46.54		ug/L		93	80 - 123
1,2-Dibromo-3-Chloropropane	50.0	41.68		ug/L		83	68 - 128
1,2-Dibromoethane	50.0	50.37		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	49.33		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	52.60		ug/L		105	75 - 123
1,2-Dichloropropane	50.0	49.86		ug/L		100	80 - 120
1,3,5-Trimethylbenzene	50.0	49.37		ug/L		99	80 - 126
1,3-Dichlorobenzene	50.0	49.00		ug/L		98	80 - 120
1,3-Dichloropropane	50.0	46.62		ug/L		93	80 - 120
1,4-Dichlorobenzene	50.0	49.48		ug/L		99	80 - 120
1,4-Dioxane	500	500.3		ug/L		100	64 - 130
2,2-Dichloropropane	50.0	51.85		ug/L		104	53 - 155
2-Butanone	50.0	50.29		ug/L		101	53 - 137
2-Chlorotoluene	50.0	50.11		ug/L		100	80 - 121
2-Hexanone	50.0	44.23		ug/L		88	59 - 131
2-Methyl-2-butanol (TAA)	250	228.4		ug/L		91	60 - 120
4-Chlorotoluene	50.0	46.36		ug/L		93	80 - 120
4-Methyl-2-pentanone	50.0	46.43		ug/L		93	68 - 122
Acetone	50.0	45.98		ug/L		92	50 - 150
Benzene	50.0	51.85		ug/L		104	78 - 120
Bromobenzene	50.0	52.10		ug/L		104	80 - 120
Bromochloromethane	50.0	54.56		ug/L		109	77 - 125
Bromodichloromethane	50.0	52.47		ug/L		105	80 - 125
Bromoform	50.0	48.61		ug/L		97	68 - 128
Bromomethane	50.0	57.70		ug/L		115	50 - 150
Carbon disulfide	50.0	47.62		ug/L		95	50 - 150
Carbon tetrachloride	50.0	55.27		ug/L		111	67 - 139
Chlorobenzene	50.0	49.86		ug/L		100	80 - 120

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 570-108700/3**  
**Matrix: Water**  
**Analysis Batch: 108700**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	55.39		ug/L		111	64 - 130
Chloroform	50.0	53.71		ug/L		107	77 - 120
Chloromethane	50.0	49.76		ug/L		100	56 - 128
cis-1,2-Dichloroethene	50.0	53.06		ug/L		106	78 - 120
cis-1,3-Dichloropropene	50.0	53.34		ug/L		107	80 - 129
Dibromochloromethane	50.0	49.26		ug/L		99	77 - 125
Dibromomethane	50.0	54.32		ug/L		109	80 - 120
Dichlorodifluoromethane	50.0	61.30		ug/L		123	50 - 150
Diethyl ether	50.0	49.66		ug/L		99	70 - 130
Di-isopropyl ether (DIPE)	50.0	46.95		ug/L		94	72 - 132
Ethanol	500	477.0		ug/L		95	56 - 150
Ethylbenzene	50.0	49.22		ug/L		98	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	48.59		ug/L		97	74 - 122
Isopropylbenzene	50.0	50.06		ug/L		100	80 - 126
m,p-Xylene	100	99.33		ug/L		99	80 - 125
Methylene Chloride	50.0	44.28		ug/L		89	73 - 127
Methyl-t-Butyl Ether (MTBE)	50.0	49.20		ug/L		98	77 - 120
Naphthalene	50.0	47.64		ug/L		95	64 - 136
n-Butylbenzene	50.0	47.01		ug/L		94	78 - 132
N-Propylbenzene	50.0	49.52		ug/L		99	80 - 125
o-Xylene	50.0	50.21		ug/L		100	80 - 125
p-Isopropyltoluene	50.0	47.95		ug/L		96	80 - 129
sec-Butylbenzene	50.0	47.06		ug/L		94	80 - 125
Styrene	50.0	49.57		ug/L		99	80 - 122
Tert-amyl-methyl ether (TAME)	50.0	50.43		ug/L		101	74 - 122
tert-Butyl alcohol (TBA)	250	246.4		ug/L		99	80 - 126
tert-Butylbenzene	50.0	49.32		ug/L		99	80 - 125
Tetrachloroethene	50.0	52.04		ug/L		104	54 - 144
Toluene	50.0	52.35		ug/L		105	80 - 122
trans-1,2-Dichloroethene	50.0	52.01		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	47.40		ug/L		95	78 - 132
Trichloroethene	50.0	51.63		ug/L		103	77 - 125
Trichlorofluoromethane	50.0	61.22		ug/L		122	69 - 141
Vinyl acetate	50.0	53.63		ug/L		107	50 - 150
Vinyl chloride	50.0	58.73		ug/L		117	63 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		80 - 129
4-Bromofluorobenzene (Surr)	98		77 - 120
Dibromofluoromethane (Surr)	100		80 - 128
Toluene-d8 (Surr)	100		80 - 120

**Lab Sample ID: LCSD 570-108700/4**  
**Matrix: Water**  
**Analysis Batch: 108700**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.49		ug/L		101	80 - 126	1	30

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-108700/4

Matrix: Water

Analysis Batch: 108700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.57		ug/L		99	73 - 127	1	30
1,1,2,2-Tetrachloroethane	50.0	45.96		ug/L		92	76 - 120	0	28
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.91		ug/L		98	53 - 155	3	30
1,1,2-Trichloroethane	50.0	47.68		ug/L		95	80 - 120	1	30
1,1-Dichloroethane	50.0	49.19		ug/L		98	73 - 127	2	30
1,1-Dichloroethene	50.0	48.65		ug/L		97	64 - 136	1	30
1,1-Dichloropropene	50.0	50.92		ug/L		102	73 - 127	1	30
1,2,3-Trichlorobenzene	50.0	52.58		ug/L		105	76 - 130	2	30
1,2,3-Trichloropropane	50.0	46.25		ug/L		93	77 - 125	9	30
1,2,4-Trichlorobenzene	50.0	52.75		ug/L		105	74 - 134	2	30
1,2,4-Trimethylbenzene	50.0	46.31		ug/L		93	80 - 123	1	30
1,2-Dibromo-3-Chloropropane	50.0	41.50		ug/L		83	68 - 128	0	30
1,2-Dibromoethane	50.0	49.68		ug/L		99	80 - 120	1	30
1,2-Dichlorobenzene	50.0	49.05		ug/L		98	80 - 120	1	20
1,2-Dichloroethane	50.0	51.85		ug/L		104	75 - 123	1	24
1,2-Dichloropropane	50.0	49.26		ug/L		99	80 - 120	1	20
1,3,5-Trimethylbenzene	50.0	48.31		ug/L		97	80 - 126	2	20
1,3-Dichlorobenzene	50.0	48.42		ug/L		97	80 - 120	1	20
1,3-Dichloropropane	50.0	46.16		ug/L		92	80 - 120	1	20
1,4-Dichlorobenzene	50.0	49.09		ug/L		98	80 - 120	1	20
1,4-Dioxane	500	486.9		ug/L		97	64 - 130	3	30
2,2-Dichloropropane	50.0	51.49		ug/L		103	53 - 155	1	30
2-Butanone	50.0	47.60		ug/L		95	53 - 137	5	30
2-Chlorotoluene	50.0	49.00		ug/L		98	80 - 121	2	20
2-Hexanone	50.0	43.69		ug/L		87	59 - 131	1	30
2-Methyl-2-butanol (TAA)	250	225.2		ug/L		90	60 - 120	1	20
4-Chlorotoluene	50.0	46.03		ug/L		92	80 - 120	1	20
4-Methyl-2-pentanone	50.0	46.85		ug/L		94	68 - 122	1	30
Acetone	50.0	44.22		ug/L		88	50 - 150	4	30
Benzene	50.0	50.48		ug/L		101	78 - 120	3	21
Bromobenzene	50.0	51.08		ug/L		102	80 - 120	2	20
Bromochloromethane	50.0	53.67		ug/L		107	77 - 125	2	22
Bromodichloromethane	50.0	52.35		ug/L		105	80 - 125	0	20
Bromoform	50.0	49.24		ug/L		98	68 - 128	1	30
Bromomethane	50.0	56.04		ug/L		112	50 - 150	3	30
Carbon disulfide	50.0	46.98		ug/L		94	50 - 150	1	30
Carbon tetrachloride	50.0	55.09		ug/L		110	67 - 139	0	30
Chlorobenzene	50.0	49.71		ug/L		99	80 - 120	0	20
Chloroethane	50.0	55.52		ug/L		111	64 - 130	0	30
Chloroform	50.0	53.51		ug/L		107	77 - 120	0	23
Chloromethane	50.0	50.19		ug/L		100	56 - 128	1	30
cis-1,2-Dichloroethene	50.0	52.85		ug/L		106	78 - 120	0	23
cis-1,3-Dichloropropene	50.0	51.95		ug/L		104	80 - 129	3	21
Dibromochloromethane	50.0	49.26		ug/L		99	77 - 125	0	21
Dibromomethane	50.0	52.53		ug/L		105	80 - 120	3	20
Dichlorodifluoromethane	50.0	66.52		ug/L		133	50 - 150	8	30
Diethyl ether	50.0	49.15		ug/L		98	70 - 130	1	29
Di-isopropyl ether (DIPE)	50.0	46.96		ug/L		94	72 - 132	0	29

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 570-108700/4**  
**Matrix: Water**  
**Analysis Batch: 108700**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethanol	500	460.6		ug/L		92	56 - 150	4	30
Ethylbenzene	50.0	48.29		ug/L		97	80 - 120	2	20
Ethyl-t-butyl ether (ETBE)	50.0	47.89		ug/L		96	74 - 122	1	27
Isopropylbenzene	50.0	49.05		ug/L		98	80 - 126	2	20
m,p-Xylene	100	98.09		ug/L		98	80 - 125	1	30
Methylene Chloride	50.0	45.86		ug/L		92	73 - 127	3	25
Methyl-t-Butyl Ether (MTBE)	50.0	48.09		ug/L		96	77 - 120	2	24
Naphthalene	50.0	47.93		ug/L		96	64 - 136	1	30
n-Butylbenzene	50.0	46.17		ug/L		92	78 - 132	2	23
N-Propylbenzene	50.0	48.22		ug/L		96	80 - 125	3	20
o-Xylene	50.0	49.74		ug/L		99	80 - 125	1	20
p-Isopropyltoluene	50.0	47.66		ug/L		95	80 - 129	1	20
sec-Butylbenzene	50.0	47.12		ug/L		94	80 - 125	0	20
Styrene	50.0	48.90		ug/L		98	80 - 122	1	20
Tert-amyl-methyl ether (TAME)	50.0	49.41		ug/L		99	74 - 122	2	28
tert-Butyl alcohol (TBA)	250	246.6		ug/L		99	80 - 126	0	30
tert-Butylbenzene	50.0	49.15		ug/L		98	80 - 125	0	20
Tetrachloroethene	50.0	51.11		ug/L		102	54 - 144	2	30
Toluene	50.0	51.26		ug/L		103	80 - 122	2	20
trans-1,2-Dichloroethene	50.0	51.52		ug/L		103	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	46.92		ug/L		94	78 - 132	1	22
Trichloroethene	50.0	49.77		ug/L		100	77 - 125	4	22
Trichlorofluoromethane	50.0	61.32		ug/L		123	69 - 141	0	30
Vinyl acetate	50.0	54.65		ug/L		109	50 - 150	2	30
Vinyl chloride	50.0	58.37		ug/L		117	63 - 135	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	93		80 - 129
4-Bromofluorobenzene (Surr)	99		77 - 120
Dibromofluoromethane (Surr)	100		80 - 128
Toluene-d8 (Surr)	100		80 - 120

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 570-107553/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108715**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 107553**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		4.0	2.2	mg/Kg		11/06/20 07:52	11/11/20 17:27	20

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		42 - 126	11/06/20 07:52	11/11/20 17:27	20

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: MB 570-107882/57**  
**Matrix: Water**  
**Analysis Batch: 107882**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		50	30	ug/L			11/07/20 11:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		38 - 134					11/07/20 11:30	1

**Lab Sample ID: LCS 570-107882/55**  
**Matrix: Water**  
**Analysis Batch: 107882**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (C4-C13)	2020	2093		ug/L		104	78 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		38 - 134				

**Lab Sample ID: LCSD 570-107882/56**  
**Matrix: Water**  
**Analysis Batch: 107882**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	2020	2151		ug/L		107	78 - 120	3	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		38 - 134						

**Lab Sample ID: MB 570-107903/30**  
**Matrix: Solid**  
**Analysis Batch: 107903**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.099	0.055	mg/Kg			11/07/20 22:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		42 - 126					11/07/20 22:27	1

**Lab Sample ID: MB 570-107903/49**  
**Matrix: Solid**  
**Analysis Batch: 107903**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		2.0	1.1	mg/Kg			11/08/20 06:21	20
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		42 - 126					11/08/20 06:21	20

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCS 570-107903/56**  
**Matrix: Solid**  
**Analysis Batch: 107903**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (C4-C13)	2.02	2.292		mg/Kg		114	70 - 124
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		110					42 - 126

**Lab Sample ID: LCSD 570-107903/57**  
**Matrix: Solid**  
**Analysis Batch: 107903**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	2.02	2.181		mg/Kg		108	70 - 124	5	18
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		110					42 - 126		

**Lab Sample ID: MB 570-108697/5**  
**Matrix: Water**  
**Analysis Batch: 108697**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		50	30	ug/L			11/11/20 11:04	1
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	70		38 - 134					11/11/20 11:04	1

**Lab Sample ID: LCS 570-108697/3**  
**Matrix: Water**  
**Analysis Batch: 108697**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (C4-C13)	2020	1818		ug/L		90	78 - 120
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		85					38 - 134

**Lab Sample ID: LCSD 570-108697/4**  
**Matrix: Water**  
**Analysis Batch: 108697**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	2020	1858		ug/L		92	78 - 120	2	10
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		85					38 - 134		

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 570-108732/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108715**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108732**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.10	0.056	mg/Kg		11/11/20 09:33	11/11/20 11:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		42 - 126				11/11/20 09:33	11/11/20 11:34	1

**Lab Sample ID: LCS 570-108732/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108715**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108732**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (C4-C13)	2.05	2.196		mg/Kg		107	70 - 124
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		42 - 126				

**Lab Sample ID: LCSD 570-108732/3-A**  
**Matrix: Solid**  
**Analysis Batch: 108715**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108732**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	2.04	2.155		mg/Kg		106	70 - 124	2	18
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		42 - 126						

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 570-107061/1-A**  
**Matrix: Water**  
**Analysis Batch: 108100**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 107061**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C7 as C7	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C8 as C8	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C9-C10	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C11-C12	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C13-C14	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C15-C16	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C17-C18	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C19-C20	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C21-C22	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C23-C24	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C25-C28	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C29-C32	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C33-C36	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 570-107061/1-A**  
**Matrix: Water**  
**Analysis Batch: 108100**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 107061**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C37-C40	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C41-C44	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
C6-C44	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
Diesel Range Organics [C10-C28]	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1
TPH as Motor Oil (C29-C44)	ND		50	22	ug/L		11/04/20 16:29	11/10/20 01:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		68 - 140	11/04/20 16:29	11/10/20 01:21	1

**Lab Sample ID: LCS 570-107061/2-A**  
**Matrix: Water**  
**Analysis Batch: 108100**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 107061**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2000	1694		ug/L		85	69 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	69		68 - 140

**Lab Sample ID: LCSD 570-107061/3-A**  
**Matrix: Water**  
**Analysis Batch: 108100**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 107061**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2000	1663		ug/L		83	69 - 123	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	92		68 - 140

**Lab Sample ID: MB 570-108392/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108425**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108392**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C7 as C7	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C8 as C8	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C9-C10	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C11-C12	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C13-C14	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C15-C16	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C17-C18	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C19-C20	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C21-C22	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C23-C24	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C25-C28	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 570-108392/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108425**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108392**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C29-C32	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C33-C36	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C37-C40	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C41-C44	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
C6-C44	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
Diesel Range Organics [C10-C28]	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1
TPH as Motor Oil (C29-C44)	ND		5.0	3.8	mg/Kg		11/10/20 09:13	11/10/20 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90		61 - 145	11/10/20 09:13	11/10/20 12:14	1

**Lab Sample ID: LCS 570-108392/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108425**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108392**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	400	447.7		mg/Kg		112	67 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	88		61 - 145

**Lab Sample ID: LCSD 570-108392/3-A**  
**Matrix: Solid**  
**Analysis Batch: 108425**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108392**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400	430.7		mg/Kg		108	67 - 121	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	90		61 - 145

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-106694/1-A**  
**Matrix: Water**  
**Analysis Batch: 106912**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 106694**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.500	0.193	mg/L		11/03/20 14:40	11/03/20 21:59	1
Antimony	ND		0.100	0.0329	mg/L		11/03/20 14:40	11/03/20 21:59	1
Arsenic	ND		0.100	0.0181	mg/L		11/03/20 14:40	11/03/20 21:59	1
Barium	ND		0.0100	0.00308	mg/L		11/03/20 14:40	11/03/20 21:59	1
Beryllium	ND		0.0100	0.00252	mg/L		11/03/20 14:40	11/03/20 21:59	1
Cadmium	ND		0.0100	0.00210	mg/L		11/03/20 14:40	11/03/20 21:59	1
Chromium	ND		0.0500	0.00688	mg/L		11/03/20 14:40	11/03/20 21:59	1
Cobalt	ND		0.0500	0.00362	mg/L		11/03/20 14:40	11/03/20 21:59	1
Copper	ND		0.0500	0.00614	mg/L		11/03/20 14:40	11/03/20 21:59	1

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 570-106694/1-A**  
**Matrix: Water**  
**Analysis Batch: 106912**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 106694**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0500	0.00821	mg/L		11/03/20 14:40	11/03/20 21:59	1
Boron	ND		0.500	0.133	mg/L		11/03/20 14:40	11/03/20 21:59	1
Molybdenum	ND		0.0500	0.00509	mg/L		11/03/20 14:40	11/03/20 21:59	1
Nickel	ND		0.0500	0.00784	mg/L		11/03/20 14:40	11/03/20 21:59	1
Calcium	ND		2.00	0.459	mg/L		11/03/20 14:40	11/03/20 21:59	1
Iron	ND		0.500	0.123	mg/L		11/03/20 14:40	11/03/20 21:59	1
Selenium	ND		0.100	0.0244	mg/L		11/03/20 14:40	11/03/20 21:59	1
Magnesium	ND		0.500	0.0493	mg/L		11/03/20 14:40	11/03/20 21:59	1
Manganese	ND		0.0500	0.00405	mg/L		11/03/20 14:40	11/03/20 21:59	1
Silver	ND		0.0100	0.00298	mg/L		11/03/20 14:40	11/03/20 21:59	1
Phosphorus	ND		0.250	0.0756	mg/L		11/03/20 14:40	11/03/20 21:59	1
Potassium	ND		2.00	0.240	mg/L		11/03/20 14:40	11/03/20 21:59	1
Silicon	ND		0.250	0.0947	mg/L		11/03/20 14:40	11/03/20 21:59	1
Thallium	ND		0.0500	0.0161	mg/L		11/03/20 14:40	11/03/20 21:59	1
Sodium	ND		2.00	1.11	mg/L		11/03/20 14:40	11/03/20 21:59	1
Strontium	ND		0.0100	0.00324	mg/L		11/03/20 14:40	11/03/20 21:59	1
Titanium	ND		0.0500	0.00405	mg/L		11/03/20 14:40	11/03/20 21:59	1
Vanadium	ND		0.0100	0.00297	mg/L		11/03/20 14:40	11/03/20 21:59	1
Zinc	ND		0.250	0.0682	mg/L		11/03/20 14:40	11/03/20 21:59	1

**Lab Sample ID: LCS 570-106694/2-A**  
**Matrix: Water**  
**Analysis Batch: 106912**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 106694**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.500	0.5034		mg/L		101	80 - 120
Antimony	0.500	0.4733		mg/L		95	80 - 120
Arsenic	0.500	0.4774		mg/L		95	80 - 120
Barium	0.500	0.5409		mg/L		108	80 - 120
Beryllium	0.500	0.5142		mg/L		103	80 - 120
Cadmium	0.500	0.5116		mg/L		102	80 - 120
Chromium	0.500	0.5157		mg/L		103	80 - 120
Cobalt	0.500	0.5144		mg/L		103	80 - 120
Copper	0.500	0.5710		mg/L		114	80 - 120
Lead	0.500	0.4993		mg/L		100	80 - 120
Boron	0.500	0.4860	J	mg/L		97	80 - 120
Molybdenum	0.500	0.4539		mg/L		91	80 - 120
Nickel	0.500	0.5149		mg/L		103	80 - 120
Calcium	0.500	0.5808	J	mg/L		116	80 - 120
Iron	0.500	0.5288		mg/L		106	80 - 120
Selenium	0.500	0.4874		mg/L		97	80 - 120
Magnesium	0.500	0.5126		mg/L		103	80 - 120
Manganese	0.500	0.5002		mg/L		100	80 - 120
Silver	0.250	0.2546		mg/L		102	80 - 120
Phosphorus	0.500	0.4687		mg/L		94	80 - 120
Potassium	5.00	4.954		mg/L		99	80 - 120
Silicon	0.500	0.4957		mg/L		99	80 - 120
Thallium	0.500	0.5156		mg/L		103	80 - 120
Sodium	5.00	5.528		mg/L		111	80 - 120

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 570-106694/2-A**  
**Matrix: Water**  
**Analysis Batch: 106912**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 106694**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Strontium	0.500	0.4827		mg/L		97	80 - 120
Titanium	0.500	0.5887		mg/L		118	80 - 120
Vanadium	0.500	0.5105		mg/L		102	80 - 120
Zinc	0.500	0.5043		mg/L		101	80 - 120

**Lab Sample ID: LCSD 570-106694/3-A**  
**Matrix: Water**  
**Analysis Batch: 106912**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 106694**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.500	0.5058		mg/L		101	80 - 120	0	20
Antimony	0.500	0.4810		mg/L		96	80 - 120	2	20
Arsenic	0.500	0.4878		mg/L		98	80 - 120	2	20
Barium	0.500	0.5409		mg/L		108	80 - 120	0	20
Beryllium	0.500	0.5056		mg/L		101	80 - 120	2	20
Cadmium	0.500	0.5125		mg/L		102	80 - 120	0	20
Chromium	0.500	0.5137		mg/L		103	80 - 120	0	20
Cobalt	0.500	0.5180		mg/L		104	80 - 120	1	20
Copper	0.500	0.5684		mg/L		114	80 - 120	0	20
Lead	0.500	0.4975		mg/L		99	80 - 120	0	20
Boron	0.500	0.4894	J	mg/L		98	80 - 120	1	20
Molybdenum	0.500	0.4647		mg/L		93	80 - 120	2	20
Nickel	0.500	0.5176		mg/L		104	80 - 120	1	20
Calcium	0.500	0.5760	J	mg/L		115	80 - 120	1	20
Iron	0.500	0.5275		mg/L		106	80 - 120	0	20
Selenium	0.500	0.5226		mg/L		105	80 - 120	7	20
Magnesium	0.500	0.5163		mg/L		103	80 - 120	1	20
Manganese	0.500	0.5011		mg/L		100	80 - 120	0	20
Silver	0.250	0.2545		mg/L		102	80 - 120	0	20
Phosphorus	0.500	0.4854		mg/L		97	80 - 120	3	20
Potassium	5.00	4.857		mg/L		97	80 - 120	2	20
Silicon	0.500	0.4985		mg/L		100	80 - 120	1	20
Thallium	0.500	0.5177		mg/L		104	80 - 120	0	20
Sodium	5.00	5.493		mg/L		110	80 - 120	1	20
Strontium	0.500	0.4752		mg/L		95	80 - 120	2	20
Titanium	0.500	0.5896		mg/L		118	80 - 120	0	20
Vanadium	0.500	0.5102		mg/L		102	80 - 120	0	20
Zinc	0.500	0.5059		mg/L		101	80 - 120	0	20

**Lab Sample ID: MB 570-108557/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108725**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108557**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.6398	J	2.46	0.353	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Antimony	0.3129	J	0.739	0.147	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Arsenic	ND		0.739	0.255	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Barium	ND		0.493	0.152	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Beryllium	ND		0.246	0.135	mg/Kg		11/10/20 18:00	11/10/20 23:33	1

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 570-108557/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108725**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108557**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	ND		0.493	0.133	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Chromium	ND		0.246	0.140	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Cobalt	ND		0.246	0.146	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Copper	ND		0.493	0.133	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Lead	ND		0.493	0.130	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Boron	1.362	J	1.97	0.442	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Molybdenum	ND		0.246	0.130	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Nickel	ND		0.246	0.143	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Calcium	ND		4.93	0.375	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Iron	0.4588	J	4.93	0.131	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Selenium	ND		0.739	0.296	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Magnesium	ND		4.93	0.167	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Manganese	ND		0.246	0.137	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Silver	ND		0.246	0.0844	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Phosphorus	1.407	J	4.93	0.246	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Potassium	3.228	J	24.6	1.72	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Silicon	ND		4.93	1.30	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Thallium	ND		0.739	0.150	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Sodium	ND		24.6	1.79	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Tin	0.1843	J	2.46	0.147	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Strontium	ND		1.48	0.136	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Titanium	ND		1.48	0.136	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Vanadium	ND		0.246	0.139	mg/Kg		11/10/20 18:00	11/10/20 23:33	1
Zinc	ND		0.985	0.175	mg/Kg		11/10/20 18:00	11/10/20 23:33	1

**Lab Sample ID: LCS 570-108557/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108725**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108557**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Aluminum	25.0	28.25		mg/Kg		113		80 - 120
Antimony	25.0	22.56		mg/Kg		90		80 - 120
Arsenic	25.0	22.62		mg/Kg		90		80 - 120
Barium	25.0	27.92		mg/Kg		112		80 - 120
Beryllium	25.0	26.45		mg/Kg		106		80 - 120
Cadmium	25.0	23.63		mg/Kg		95		80 - 120
Chromium	25.0	26.70		mg/Kg		107		80 - 120
Cobalt	25.0	25.77		mg/Kg		103		80 - 120
Copper	25.0	27.63		mg/Kg		111		80 - 120
Lead	25.0	24.16		mg/Kg		97		80 - 120
Boron	25.0	25.33		mg/Kg		101		80 - 120
Molybdenum	25.0	21.98		mg/Kg		88		80 - 120
Nickel	25.0	26.17		mg/Kg		105		80 - 120
Calcium	25.0	28.97		mg/Kg		116		80 - 120
Iron	25.0	22.33		mg/Kg		89		80 - 120
Selenium	25.0	22.24		mg/Kg		89		80 - 120
Magnesium	25.0	27.35		mg/Kg		109		80 - 120
Manganese	25.0	26.90		mg/Kg		108		80 - 120
Silver	12.5	13.12		mg/Kg		105		80 - 120

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# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 570-108557/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108725**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108557**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	25.0	22.73		mg/Kg		91	80 - 120
Potassium	250	281.4		mg/Kg		113	80 - 120
Silicon	25.0	23.61		mg/Kg		94	80 - 120
Thallium	25.0	23.82		mg/Kg		95	80 - 120
Sodium	250	289.3		mg/Kg		116	80 - 120
Tin	25.0	25.48		mg/Kg		102	80 - 120
Strontium	25.0	26.51		mg/Kg		106	80 - 120
Titanium	25.0	24.07		mg/Kg		96	80 - 120
Vanadium	25.0	26.41		mg/Kg		106	80 - 120
Zinc	25.0	23.45		mg/Kg		94	80 - 120

**Lab Sample ID: LCSD 570-108557/3-A**  
**Matrix: Solid**  
**Analysis Batch: 108725**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108557**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	24.9	26.80		mg/Kg		108	80 - 120	5	20
Antimony	24.9	22.12		mg/Kg		89	80 - 120	2	20
Arsenic	24.9	21.83		mg/Kg		88	80 - 120	4	20
Barium	24.9	27.44		mg/Kg		110	80 - 120	2	20
Beryllium	24.9	25.90		mg/Kg		104	80 - 120	2	20
Cadmium	24.9	23.38		mg/Kg		94	80 - 120	1	20
Chromium	24.9	26.19		mg/Kg		105	80 - 120	2	20
Cobalt	24.9	25.63		mg/Kg		103	80 - 120	1	20
Copper	24.9	27.21		mg/Kg		109	80 - 120	2	20
Lead	24.9	23.87		mg/Kg		96	80 - 120	1	20
Boron	24.9	24.85		mg/Kg		100	80 - 120	2	20
Molybdenum	24.9	22.23		mg/Kg		89	80 - 120	1	20
Nickel	24.9	25.93		mg/Kg		104	80 - 120	1	20
Calcium	24.9	27.93		mg/Kg		112	80 - 120	4	20
Iron	24.9	22.06		mg/Kg		89	80 - 120	1	20
Selenium	24.9	21.69		mg/Kg		87	80 - 120	2	20
Magnesium	24.9	27.02		mg/Kg		109	80 - 120	1	20
Manganese	24.9	26.39		mg/Kg		106	80 - 120	2	20
Silver	12.4	12.87		mg/Kg		104	80 - 120	2	20
Phosphorus	24.9	22.20		mg/Kg		89	80 - 120	2	20
Potassium	249	280.0		mg/Kg		113	80 - 120	1	20
Silicon	24.9	22.60		mg/Kg		91	80 - 120	4	20
Thallium	24.9	23.86		mg/Kg		96	80 - 120	0	20
Sodium	249	286.1		mg/Kg		115	80 - 120	1	20
Tin	24.9	25.38		mg/Kg		102	80 - 120	0	20
Strontium	24.9	26.78		mg/Kg		108	80 - 120	1	20
Titanium	24.9	23.63		mg/Kg		95	80 - 120	2	20
Vanadium	24.9	26.04		mg/Kg		105	80 - 120	1	20
Zinc	24.9	23.11		mg/Kg		93	80 - 120	1	20

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 570-106836/1-A**  
**Matrix: Water**  
**Analysis Batch: 106935**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 106836**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000500	0.000141	mg/L		11/04/20 06:30	11/04/20 12:45	1

**Lab Sample ID: LCS 570-106836/2-A**  
**Matrix: Water**  
**Analysis Batch: 106935**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 106836**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0100	0.01029		mg/L		103	80 - 120

**Lab Sample ID: LCSD 570-106836/3-A**  
**Matrix: Water**  
**Analysis Batch: 106935**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 106836**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0100	0.01029		mg/L		103	80 - 120	0	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-108558/1-A**  
**Matrix: Solid**  
**Analysis Batch: 108775**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 108558**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0820	0.0133	mg/Kg		11/10/20 18:00	11/11/20 13:25	1

**Lab Sample ID: LCS 570-108558/2-A**  
**Matrix: Solid**  
**Analysis Batch: 108775**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 108558**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.806	0.7508		mg/Kg		93	85 - 121

**Lab Sample ID: LCSD 570-108558/3-A**  
**Matrix: Solid**  
**Analysis Batch: 108775**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 108558**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.833	0.7749		mg/Kg		93	85 - 121	3	10

# Marginal Exceedance (ME) Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 570-108348/1-A

Matrix: Solid

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance
								Status
1,1,1,2-Tetrachloroethane	50.0	51.12		ug/Kg	102	70 - 130	60 - 140	
1,1,1-Trichloroethane	50.0	50.07		ug/Kg	100	70 - 130	60 - 140	
1,1,2,2-Tetrachloroethane	50.0	45.64		ug/Kg	91	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.25		ug/Kg	97	70 - 130	60 - 140	
1,1,2-Trichloroethane	50.0	47.27		ug/Kg	95	70 - 130	60 - 140	
1,1-Dichloroethane	50.0	48.02		ug/Kg	96	70 - 130	60 - 140	
1,1-Dichloroethene	50.0	51.83		ug/Kg	104	74 - 122	66 - 130	
1,1-Dichloropropene	50.0	49.70		ug/Kg	99	70 - 130	60 - 140	
1,2,3-Trichlorobenzene	50.0	53.98		ug/Kg	108	70 - 130	60 - 140	
1,2,3-Trichloropropane	50.0	45.94		ug/Kg	92	70 - 130	60 - 140	
1,2,4-Trichlorobenzene	50.0	53.97		ug/Kg	108	70 - 130	60 - 140	
1,2,4-Trimethylbenzene	50.0	47.86		ug/Kg	96	70 - 130	60 - 140	
1,2-Dibromo-3-Chloropropane	50.0	41.42		ug/Kg	83	70 - 130	60 - 140	
1,2-Dibromoethane	50.0	47.76		ug/Kg	96	70 - 130	60 - 140	
1,2-Dichlorobenzene	50.0	48.87		ug/Kg	98	75 - 120	68 - 128	
1,2-Dichloroethane	50.0	50.99		ug/Kg	102	70 - 130	60 - 140	
1,2-Dichloropropane	50.0	48.72		ug/Kg	97	79 - 115	73 - 121	
1,3,5-Trimethylbenzene	50.0	48.78		ug/Kg	98	70 - 130	60 - 140	
1,3-Dichlorobenzene	50.0	48.71		ug/Kg	97	70 - 130	60 - 140	
1,3-Dichloropropane	50.0	48.58		ug/Kg	97	70 - 130	60 - 140	
1,4-Dichlorobenzene	50.0	48.75		ug/Kg	97	70 - 130	60 - 140	
1,4-Dioxane	500	482.0		ug/Kg	96	70 - 130	60 - 140	
2,2-Dichloropropane	50.0	49.13		ug/Kg	98	70 - 130	60 - 140	
2-Butanone	50.0	43.88		ug/Kg	88	70 - 130	60 - 140	
2-Chlorotoluene	50.0	49.83		ug/Kg	100	70 - 130	60 - 140	
2-Hexanone	50.0	43.47		ug/Kg	87	70 - 130	60 - 140	
4-Chlorotoluene	50.0	49.67		ug/Kg	99	70 - 130	60 - 140	
4-Methyl-2-pentanone	50.0	43.90		ug/Kg	88	70 - 130	60 - 140	
Acetone	50.0	38.56		ug/Kg	77	70 - 130	60 - 140	
Benzene	50.0	46.22		ug/Kg	92	78 - 120	71 - 127	
Bromobenzene	50.0	49.22		ug/Kg	98	70 - 130	60 - 140	
Bromochloromethane	50.0	48.62		ug/Kg	97	70 - 130	60 - 140	
Bromodichloromethane	50.0	51.32		ug/Kg	103	70 - 130	60 - 140	
Bromoform	50.0	48.07		ug/Kg	96	70 - 130	60 - 140	
Bromomethane	50.0	74.77	*+	ug/Kg	150	70 - 130	60 - 140	X
Carbon disulfide	50.0	52.26		ug/Kg	105	70 - 130	60 - 140	
Carbon tetrachloride	50.0	53.04		ug/Kg	106	49 - 139	34 - 154	
Chlorobenzene	50.0	48.91		ug/Kg	98	79 - 120	72 - 127	
Chloroethane	50.0	55.62		ug/Kg	111	70 - 130	60 - 140	
Chloroform	50.0	49.72		ug/Kg	99	70 - 130	60 - 140	
Chloromethane	50.0	62.50		ug/Kg	125	70 - 130	60 - 140	
cis-1,2-Dichloroethene	50.0	50.67		ug/Kg	101	70 - 130	60 - 140	
cis-1,3-Dichloropropene	50.0	49.25		ug/Kg	99	70 - 130	60 - 140	
Dibromochloromethane	50.0	51.57		ug/Kg	103	70 - 130	60 - 140	
Dibromomethane	50.0	51.41		ug/Kg	103	70 - 130	60 - 140	
Dichlorodifluoromethane	50.0	58.45		ug/Kg	117	70 - 130	60 - 140	
Diethyl ether	50.0	47.69		ug/Kg	95	70 - 130	60 - 140	
Di-isopropyl ether (DIPE)	50.0	45.48		ug/Kg	91	78 - 120	71 - 127	
Ethanol	500	526.1		ug/Kg	105	56 - 140	42 - 154	

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# Marginal Exceedance (ME) Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-108348/1-A  
Matrix: Solid

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Ethylbenzene	50.0	49.35		ug/Kg	99	76 - 120	69 - 127	
Ethyl-t-butyl ether (ETBE)	50.0	42.49		ug/Kg	85	70 - 124	61 - 133	
Isopropylbenzene	50.0	49.07		ug/Kg	98	70 - 130	60 - 140	
m,p-Xylene	100	97.33		ug/Kg	97	70 - 130	60 - 140	
Methylene Chloride	50.0	47.51		ug/Kg	95	70 - 130	60 - 140	
Methyl-t-Butyl Ether (MTBE)	50.0	43.48		ug/Kg	87	70 - 124	61 - 133	
Naphthalene	50.0	51.44		ug/Kg	103	70 - 130	60 - 140	
n-Butylbenzene	50.0	50.05		ug/Kg	100	77 - 123	69 - 131	
N-Propylbenzene	50.0	49.48		ug/Kg	99	70 - 130	60 - 140	
o-Xylene	50.0	49.43		ug/Kg	99	70 - 130	60 - 140	
p-Isopropyltoluene	50.0	48.70		ug/Kg	97	70 - 130	60 - 140	
sec-Butylbenzene	50.0	47.88		ug/Kg	96	70 - 130	60 - 140	
Styrene	50.0	47.08		ug/Kg	94	70 - 130	60 - 140	
Tert-amyl-methyl ether (TAME)	50.0	43.92		ug/Kg	88	75 - 120	68 - 128	
tert-Butyl alcohol (TBA)	250	226.9		ug/Kg	91	68 - 122	59 - 131	
tert-Butylbenzene	50.0	48.14		ug/Kg	96	70 - 130	60 - 140	
Tetrachloroethene	50.0	49.12		ug/Kg	98	70 - 130	60 - 140	
Toluene	50.0	48.71		ug/Kg	97	77 - 120	70 - 127	
trans-1,2-Dichloroethene	50.0	50.04		ug/Kg	100	70 - 130	60 - 140	
trans-1,3-Dichloropropene	50.0	50.08		ug/Kg	100	70 - 130	60 - 140	
Trichloroethene	50.0	50.38		ug/Kg	101	70 - 130	60 - 140	
Trichlorofluoromethane	50.0	56.34		ug/Kg	113	70 - 130	60 - 140	
Vinyl acetate	50.0	52.24		ug/Kg	104	70 - 130	N/A	
Vinyl chloride	50.0	53.48		ug/Kg	107	68 - 122	59 - 131	

### Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
73	4	0

X = % Recovery is greater than widest possible limit

Lab Sample ID: LCSD 570-108348/2-A  
Matrix: Solid

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	50.0	49.91		ug/Kg	100	70 - 130	60 - 140	
1,1,1-Trichloroethane	50.0	48.36		ug/Kg	97	70 - 130	60 - 140	
1,1,2,2-Tetrachloroethane	50.0	45.66		ug/Kg	91	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.01		ug/Kg	94	70 - 130	60 - 140	
1,1,2-Trichloroethane	50.0	47.10		ug/Kg	94	70 - 130	60 - 140	
1,1-Dichloroethane	50.0	47.06		ug/Kg	94	70 - 130	60 - 140	
1,1-Dichloroethene	50.0	49.93		ug/Kg	100	74 - 122	66 - 130	
1,1-Dichloropropene	50.0	48.36		ug/Kg	97	70 - 130	60 - 140	
1,2,3-Trichlorobenzene	50.0	52.82		ug/Kg	106	70 - 130	60 - 140	
1,2,3-Trichloropropane	50.0	45.82		ug/Kg	92	70 - 130	60 - 140	
1,2,4-Trichlorobenzene	50.0	51.72		ug/Kg	103	70 - 130	60 - 140	
1,2,4-Trimethylbenzene	50.0	46.91		ug/Kg	94	70 - 130	60 - 140	
1,2-Dibromo-3-Chloropropane	50.0	41.84		ug/Kg	84	70 - 130	60 - 140	
1,2-Dibromoethane	50.0	47.63		ug/Kg	95	70 - 130	60 - 140	

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# Marginal Exceedance (ME) Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-108348/2-A  
 Matrix: Solid

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec %Rec Limits	ME %Rec. Limits	Marginal Exceedance Status
1,2-Dichlorobenzene	50.0	48.03		ug/Kg	96 75 - 120	68 - 128	
1,2-Dichloroethane	50.0	49.55		ug/Kg	99 70 - 130	60 - 140	
1,2-Dichloropropane	50.0	47.64		ug/Kg	95 79 - 115	73 - 121	
1,3,5-Trimethylbenzene	50.0	47.85		ug/Kg	96 70 - 130	60 - 140	
1,3-Dichlorobenzene	50.0	47.71		ug/Kg	95 70 - 130	60 - 140	
1,3-Dichloropropane	50.0	48.35		ug/Kg	97 70 - 130	60 - 140	
1,4-Dichlorobenzene	50.0	47.57		ug/Kg	95 70 - 130	60 - 140	
1,4-Dioxane	500	484.8		ug/Kg	97 70 - 130	60 - 140	
2,2-Dichloropropane	50.0	47.72		ug/Kg	95 70 - 130	60 - 140	
2-Butanone	50.0	45.01		ug/Kg	90 70 - 130	60 - 140	
2-Chlorotoluene	50.0	49.19		ug/Kg	98 70 - 130	60 - 140	
2-Hexanone	50.0	43.67		ug/Kg	87 70 - 130	60 - 140	
4-Chlorotoluene	50.0	48.43		ug/Kg	97 70 - 130	60 - 140	
4-Methyl-2-pentanone	50.0	43.76		ug/Kg	88 70 - 130	60 - 140	
Acetone	50.0	38.36		ug/Kg	77 70 - 130	60 - 140	
Benzene	50.0	44.91		ug/Kg	90 78 - 120	71 - 127	
Bromobenzene	50.0	48.90		ug/Kg	98 70 - 130	60 - 140	
Bromochloromethane	50.0	47.89		ug/Kg	96 70 - 130	60 - 140	
Bromodichloromethane	50.0	50.70		ug/Kg	101 70 - 130	60 - 140	
Bromoform	50.0	48.09		ug/Kg	96 70 - 130	60 - 140	
Bromomethane	50.0	69.29	*+ me	ug/Kg	139 70 - 130	60 - 140	ME
Carbon disulfide	50.0	51.07		ug/Kg	102 70 - 130	60 - 140	
Carbon tetrachloride	50.0	51.74		ug/Kg	103 49 - 139	34 - 154	
Chlorobenzene	50.0	47.76		ug/Kg	96 79 - 120	72 - 127	
Chloroethane	50.0	55.81		ug/Kg	112 70 - 130	60 - 140	
Chloroform	50.0	48.71		ug/Kg	97 70 - 130	60 - 140	
Chloromethane	50.0	61.71		ug/Kg	123 70 - 130	60 - 140	
cis-1,2-Dichloroethene	50.0	49.55		ug/Kg	99 70 - 130	60 - 140	
cis-1,3-Dichloropropene	50.0	47.83		ug/Kg	96 70 - 130	60 - 140	
Dibromochloromethane	50.0	50.91		ug/Kg	102 70 - 130	60 - 140	
Dibromomethane	50.0	50.76		ug/Kg	102 70 - 130	60 - 140	
Dichlorodifluoromethane	50.0	58.49		ug/Kg	117 70 - 130	60 - 140	
Diethyl ether	50.0	46.72		ug/Kg	93 70 - 130	60 - 140	
Di-isopropyl ether (DIPE)	50.0	44.71		ug/Kg	89 78 - 120	71 - 127	
Ethanol	500	547.7		ug/Kg	110 56 - 140	42 - 154	
Ethylbenzene	50.0	48.52		ug/Kg	97 76 - 120	69 - 127	
Ethyl-t-butyl ether (ETBE)	50.0	41.78		ug/Kg	84 70 - 124	61 - 133	
Isopropylbenzene	50.0	48.02		ug/Kg	96 70 - 130	60 - 140	
m,p-Xylene	100	95.47		ug/Kg	95 70 - 130	60 - 140	
Methylene Chloride	50.0	46.81		ug/Kg	94 70 - 130	60 - 140	
Methyl-t-Butyl Ether (MTBE)	50.0	43.10		ug/Kg	86 70 - 124	61 - 133	
Naphthalene	50.0	50.61		ug/Kg	101 70 - 130	60 - 140	
n-Butylbenzene	50.0	48.36		ug/Kg	97 77 - 123	69 - 131	
N-Propylbenzene	50.0	48.30		ug/Kg	97 70 - 130	60 - 140	
o-Xylene	50.0	48.97		ug/Kg	98 70 - 130	60 - 140	
p-Isopropyltoluene	50.0	47.23		ug/Kg	94 70 - 130	60 - 140	
sec-Butylbenzene	50.0	46.39		ug/Kg	93 70 - 130	60 - 140	
Styrene	50.0	46.82		ug/Kg	94 70 - 130	60 - 140	
Tert-amyl-methyl ether (TAME)	50.0	43.34		ug/Kg	87 75 - 120	68 - 128	
tert-Butyl alcohol (TBA)	250	241.6		ug/Kg	97 68 - 122	59 - 131	

Eurofins Calscience LLC

# Marginal Exceedance (ME) Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-108348/2-A  
 Matrix: Solid

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
tert-Butylbenzene	50.0	46.93		ug/Kg	94	70 - 130	60 - 140	
Tetrachloroethene	50.0	47.87		ug/Kg	96	70 - 130	60 - 140	
Toluene	50.0	47.46		ug/Kg	95	77 - 120	70 - 127	
trans-1,2-Dichloroethene	50.0	48.98		ug/Kg	98	70 - 130	60 - 140	
trans-1,3-Dichloropropene	50.0	49.45		ug/Kg	99	70 - 130	60 - 140	
Trichloroethene	50.0	48.83		ug/Kg	98	70 - 130	60 - 140	
Trichlorofluoromethane	50.0	56.63		ug/Kg	113	70 - 130	60 - 140	
Vinyl acetate	50.0	51.13		ug/Kg	102	70 - 130	N/A	
Vinyl chloride	50.0	53.16		ug/Kg	106	68 - 122	59 - 131	

### Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
73	4	1

ME = Marginal Exceedance

Lab Sample ID: LCS 570-108690/1-A  
 Matrix: Solid

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1,1,2-Tetrachloroethane	50.0	55.40		ug/Kg	111	70 - 130	60 - 140	
1,1,1-Trichloroethane	50.0	51.98		ug/Kg	104	70 - 130	60 - 140	
1,1,2,2-Tetrachloroethane	50.0	40.69		ug/Kg	81	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.32		ug/Kg	93	70 - 130	60 - 140	
1,1,2-Trichloroethane	50.0	49.20		ug/Kg	98	70 - 130	60 - 140	
1,1-Dichloroethane	50.0	44.16		ug/Kg	88	70 - 130	60 - 140	
1,1-Dichloroethene	50.0	46.62		ug/Kg	93	74 - 122	66 - 130	
1,1-Dichloropropene	50.0	47.59		ug/Kg	95	70 - 130	60 - 140	
1,2,3-Trichlorobenzene	50.0	51.16		ug/Kg	102	70 - 130	60 - 140	
1,2,3-Trichloropropane	50.0	48.90		ug/Kg	98	70 - 130	60 - 140	
1,2,4-Trichlorobenzene	50.0	47.64		ug/Kg	95	70 - 130	60 - 140	
1,2,4-Trimethylbenzene	50.0	48.31		ug/Kg	97	70 - 130	60 - 140	
1,2-Dibromo-3-Chloropropane	50.0	44.69		ug/Kg	89	70 - 130	60 - 140	
1,2-Dibromoethane	50.0	50.56		ug/Kg	101	70 - 130	60 - 140	
1,2-Dichlorobenzene	50.0	50.05		ug/Kg	100	75 - 120	68 - 128	
1,2-Dichloroethane	50.0	53.00		ug/Kg	106	70 - 130	60 - 140	
1,2-Dichloropropane	50.0	45.84		ug/Kg	92	79 - 115	73 - 121	
1,3,5-Trimethylbenzene	50.0	53.29		ug/Kg	107	70 - 130	60 - 140	
1,3-Dichlorobenzene	50.0	50.17		ug/Kg	100	70 - 130	60 - 140	
1,3-Dichloropropane	50.0	47.09		ug/Kg	94	70 - 130	60 - 140	
1,4-Dichlorobenzene	50.0	48.59		ug/Kg	97	70 - 130	60 - 140	
1,4-Dioxane	500	456.1		ug/Kg	91	70 - 130	60 - 140	
2,2-Dichloropropane	50.0	51.66		ug/Kg	103	70 - 130	60 - 140	
2-Butanone	50.0	41.54		ug/Kg	83	70 - 130	60 - 140	
2-Chlorotoluene	50.0	51.98		ug/Kg	104	70 - 130	60 - 140	
2-Hexanone	50.0	39.80		ug/Kg	80	70 - 130	60 - 140	
2-Methyl-2-butanol (TAA)	250	220.5		ug/Kg	88	80 - 120	73 - 127	
4-Chlorotoluene	50.0	46.16		ug/Kg	92	70 - 130	60 - 140	
4-Methyl-2-pentanone	50.0	40.65		ug/Kg	81	70 - 130	60 - 140	

Eurofins Calscience LLC

# Marginal Exceedance (ME) Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-108690/1-A  
 Matrix: Solid

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	%Rec	%Rec.	ME %Rec.	Marginal Exceedance Status
						Limits	Limits	
Acetone	50.0	34.60	*- me	ug/Kg	69	70 - 130	60 - 140	ME
Benzene	50.0	46.90		ug/Kg	94	78 - 120	71 - 127	
Bromobenzene	50.0	53.86		ug/Kg	108	70 - 130	60 - 140	
Bromochloromethane	50.0	52.34		ug/Kg	105	70 - 130	60 - 140	
Bromodichloromethane	50.0	54.96		ug/Kg	110	70 - 130	60 - 140	
Bromoform	50.0	49.69		ug/Kg	99	70 - 130	60 - 140	
Bromomethane	50.0	49.12		ug/Kg	98	70 - 130	60 - 140	
Carbon disulfide	50.0	45.43		ug/Kg	91	70 - 130	60 - 140	
Carbon tetrachloride	50.0	54.98		ug/Kg	110	49 - 139	34 - 154	
Chlorobenzene	50.0	50.91		ug/Kg	102	79 - 120	72 - 127	
Chloroethane	50.0	47.33		ug/Kg	95	70 - 130	60 - 140	
Chloroform	50.0	51.32		ug/Kg	103	70 - 130	60 - 140	
Chloromethane	50.0	43.55		ug/Kg	87	70 - 130	60 - 140	
cis-1,2-Dichloroethene	50.0	48.79		ug/Kg	98	70 - 130	60 - 140	
cis-1,3-Dichloropropene	50.0	48.93		ug/Kg	98	70 - 130	60 - 140	
Dibromochloromethane	50.0	55.31		ug/Kg	111	70 - 130	60 - 140	
Dibromomethane	50.0	52.34		ug/Kg	105	70 - 130	60 - 140	
Dichlorodifluoromethane	50.0	58.01		ug/Kg	116	70 - 130	60 - 140	
Diethyl ether	50.0	44.52		ug/Kg	89	70 - 130	60 - 140	
Di-isopropyl ether (DIPE)	50.0	41.25		ug/Kg	83	78 - 120	71 - 127	
Ethanol	500	489.6		ug/Kg	98	56 - 140	42 - 154	
Ethylbenzene	50.0	50.51		ug/Kg	101	76 - 120	69 - 127	
Ethyl-t-butyl ether (ETBE)	50.0	40.58		ug/Kg	81	70 - 124	61 - 133	
Isopropylbenzene	50.0	52.37		ug/Kg	105	70 - 130	60 - 140	
m,p-Xylene	100	103.6		ug/Kg	104	70 - 130	60 - 140	
Methylene Chloride	50.0	44.91		ug/Kg	90	70 - 130	60 - 140	
Methyl-t-Butyl Ether (MTBE)	50.0	41.96		ug/Kg	84	70 - 124	61 - 133	
Naphthalene	50.0	38.92		ug/Kg	78	70 - 130	60 - 140	
n-Butylbenzene	50.0	46.53		ug/Kg	93	77 - 123	69 - 131	
N-Propylbenzene	50.0	51.44		ug/Kg	103	70 - 130	60 - 140	
o-Xylene	50.0	51.49		ug/Kg	103	70 - 130	60 - 140	
p-Isopropyltoluene	50.0	49.18		ug/Kg	98	70 - 130	60 - 140	
sec-Butylbenzene	50.0	47.98		ug/Kg	96	70 - 130	60 - 140	
Styrene	50.0	50.08		ug/Kg	100	70 - 130	60 - 140	
Tert-amyl-methyl ether (TAME)	50.0	46.29		ug/Kg	93	75 - 120	68 - 128	
tert-Butyl alcohol (TBA)	250	252.3		ug/Kg	101	68 - 122	59 - 131	
tert-Butylbenzene	50.0	47.99		ug/Kg	96	70 - 130	60 - 140	
Tetrachloroethene	50.0	53.15		ug/Kg	106	70 - 130	60 - 140	
Toluene	50.0	49.71		ug/Kg	99	77 - 120	70 - 127	
trans-1,2-Dichloroethene	50.0	46.68		ug/Kg	93	70 - 130	60 - 140	
trans-1,3-Dichloropropene	50.0	52.26		ug/Kg	105	70 - 130	60 - 140	
Trichloroethene	50.0	49.31		ug/Kg	99	70 - 130	60 - 140	
Trichlorofluoromethane	50.0	58.93		ug/Kg	118	70 - 130	60 - 140	
Vinyl acetate	50.0	59.80		ug/Kg	120	70 - 130	N/A	
Vinyl chloride	50.0	48.53		ug/Kg	97	68 - 122	59 - 131	

### Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
74	4	1

# Marginal Exceedance (ME) Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

ME = Marginal Exceedance

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 570-108690/2-A

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec.	ME %Rec.	Marginal Exceedance Status
						Limits	Limits	
1,1,1,2-Tetrachloroethane	50.0	52.89		ug/Kg	106	70 - 130	60 - 140	
1,1,1-Trichloroethane	50.0	49.52		ug/Kg	99	70 - 130	60 - 140	
1,1,2,2-Tetrachloroethane	50.0	40.20		ug/Kg	80	70 - 130	60 - 140	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.10		ug/Kg	84	70 - 130	60 - 140	
1,1,2-Trichloroethane	50.0	46.48		ug/Kg	93	70 - 130	60 - 140	
1,1-Dichloroethane	50.0	42.55		ug/Kg	85	70 - 130	60 - 140	
1,1-Dichloroethene	50.0	43.09		ug/Kg	86	74 - 122	66 - 130	
1,1-Dichloropropene	50.0	45.69		ug/Kg	91	70 - 130	60 - 140	
1,2,3-Trichlorobenzene	50.0	49.64		ug/Kg	99	70 - 130	60 - 140	
1,2,3-Trichloropropane	50.0	47.96		ug/Kg	96	70 - 130	60 - 140	
1,2,4-Trichlorobenzene	50.0	45.75		ug/Kg	91	70 - 130	60 - 140	
1,2,4-Trimethylbenzene	50.0	46.06		ug/Kg	92	70 - 130	60 - 140	
1,2-Dibromo-3-Chloropropane	50.0	41.77		ug/Kg	84	70 - 130	60 - 140	
1,2-Dibromoethane	50.0	48.75		ug/Kg	97	70 - 130	60 - 140	
1,2-Dichlorobenzene	50.0	47.48		ug/Kg	95	75 - 120	68 - 128	
1,2-Dichloroethane	50.0	51.60		ug/Kg	103	70 - 130	60 - 140	
1,2-Dichloropropane	50.0	44.44		ug/Kg	89	79 - 115	73 - 121	
1,3,5-Trimethylbenzene	50.0	50.77		ug/Kg	102	70 - 130	60 - 140	
1,3-Dichlorobenzene	50.0	47.84		ug/Kg	96	70 - 130	60 - 140	
1,3-Dichloropropane	50.0	45.44		ug/Kg	91	70 - 130	60 - 140	
1,4-Dichlorobenzene	50.0	46.83		ug/Kg	94	70 - 130	60 - 140	
1,4-Dioxane	500	475.4		ug/Kg	95	70 - 130	60 - 140	
2,2-Dichloropropane	50.0	48.84		ug/Kg	98	70 - 130	60 - 140	
2-Butanone	50.0	40.46		ug/Kg	81	70 - 130	60 - 140	
2-Chlorotoluene	50.0	49.31		ug/Kg	99	70 - 130	60 - 140	
2-Hexanone	50.0	38.74		ug/Kg	77	70 - 130	60 - 140	
2-Methyl-2-butanol (TAA)	250	236.2		ug/Kg	94	80 - 120	73 - 127	
4-Chlorotoluene	50.0	44.66		ug/Kg	89	70 - 130	60 - 140	
4-Methyl-2-pentanone	50.0	39.97		ug/Kg	80	70 - 130	60 - 140	
Acetone	50.0	34.67	*- me	ug/Kg	69	70 - 130	60 - 140	ME
Benzene	50.0	45.41		ug/Kg	91	78 - 120	71 - 127	
Bromobenzene	50.0	51.33		ug/Kg	103	70 - 130	60 - 140	
Bromochloromethane	50.0	49.72		ug/Kg	99	70 - 130	60 - 140	
Bromodichloromethane	50.0	53.29		ug/Kg	107	70 - 130	60 - 140	
Bromoform	50.0	47.78		ug/Kg	96	70 - 130	60 - 140	
Bromomethane	50.0	47.86		ug/Kg	96	70 - 130	60 - 140	
Carbon disulfide	50.0	42.79		ug/Kg	86	70 - 130	60 - 140	
Carbon tetrachloride	50.0	52.24		ug/Kg	104	49 - 139	34 - 154	
Chlorobenzene	50.0	48.73		ug/Kg	97	79 - 120	72 - 127	
Chloroethane	50.0	48.64		ug/Kg	97	70 - 130	60 - 140	
Chloroform	50.0	49.78		ug/Kg	100	70 - 130	60 - 140	
Chloromethane	50.0	44.19		ug/Kg	88	70 - 130	60 - 140	
cis-1,2-Dichloroethene	50.0	47.11		ug/Kg	94	70 - 130	60 - 140	
cis-1,3-Dichloropropene	50.0	46.82		ug/Kg	94	70 - 130	60 - 140	
Dibromochloromethane	50.0	53.24		ug/Kg	106	70 - 130	60 - 140	
Dibromomethane	50.0	50.80		ug/Kg	102	70 - 130	60 - 140	
Dichlorodifluoromethane	50.0	59.13		ug/Kg	118	70 - 130	60 - 140	

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# Marginal Exceedance (ME) Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-108690/2-A  
Matrix: Solid

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
Diethyl ether	50.0	44.40		ug/Kg	89	70 - 130	60 - 140	
Di-isopropyl ether (DIPE)	50.0	39.96		ug/Kg	80	78 - 120	71 - 127	
Ethanol	500	471.3		ug/Kg	94	56 - 140	42 - 154	
Ethylbenzene	50.0	47.56		ug/Kg	95	76 - 120	69 - 127	
Ethyl-t-butyl ether (ETBE)	50.0	40.05		ug/Kg	80	70 - 124	61 - 133	
Isopropylbenzene	50.0	49.60		ug/Kg	99	70 - 130	60 - 140	
m,p-Xylene	100	99.81		ug/Kg	100	70 - 130	60 - 140	
Methylene Chloride	50.0	43.98		ug/Kg	88	70 - 130	60 - 140	
Methyl-t-Butyl Ether (MTBE)	50.0	41.39		ug/Kg	83	70 - 124	61 - 133	
Naphthalene	50.0	38.18		ug/Kg	76	70 - 130	60 - 140	
n-Butylbenzene	50.0	44.61		ug/Kg	89	77 - 123	69 - 131	
N-Propylbenzene	50.0	48.64		ug/Kg	97	70 - 130	60 - 140	
o-Xylene	50.0	49.12		ug/Kg	98	70 - 130	60 - 140	
p-Isopropyltoluene	50.0	46.80		ug/Kg	94	70 - 130	60 - 140	
sec-Butylbenzene	50.0	45.94		ug/Kg	92	70 - 130	60 - 140	
Styrene	50.0	47.66		ug/Kg	95	70 - 130	60 - 140	
Tert-amyl-methyl ether (TAME)	50.0	45.73		ug/Kg	91	75 - 120	68 - 128	
tert-Butyl alcohol (TBA)	250	237.4		ug/Kg	95	68 - 122	59 - 131	
tert-Butylbenzene	50.0	46.08		ug/Kg	92	70 - 130	60 - 140	
Tetrachloroethene	50.0	50.47		ug/Kg	101	70 - 130	60 - 140	
Toluene	50.0	47.62		ug/Kg	95	77 - 120	70 - 127	
trans-1,2-Dichloroethene	50.0	45.51		ug/Kg	91	70 - 130	60 - 140	
trans-1,3-Dichloropropene	50.0	50.36		ug/Kg	101	70 - 130	60 - 140	
Trichloroethene	50.0	48.80		ug/Kg	98	70 - 130	60 - 140	
Trichlorofluoromethane	50.0	59.65		ug/Kg	119	70 - 130	60 - 140	
Vinyl acetate	50.0	56.27		ug/Kg	113	70 - 130	N/A	
Vinyl chloride	50.0	49.73		ug/Kg	99	68 - 122	59 - 131	

### Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
74	4	1

ME = Marginal Exceedance

# QC Association Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## GC/MS VOA

### Prep Batch: 105700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	5035	
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	5035	
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	5035	
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	5035	
570-42384-9	V327	Total/NA	Solid	5035	
570-42384-10	V509-1-0.5	Total/NA	Solid	5035	

### Analysis Batch: 107540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-107553/1-A	Method Blank	Total/NA	Solid	8260B	107553

### Prep Batch: 107553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-6 - RA	CT1106	Total/NA	Solid	5030C	
570-42384-6	CT1106	Total/NA	Solid	5030C	
570-42384-7 - RA	CT817	Total/NA	Solid	5030C	
570-42384-7	CT817	Total/NA	Solid	5030C	
570-42384-8 - RA	CT824	Total/NA	Solid	5030C	
570-42384-8	CT824	Total/NA	Solid	5030C	
MB 570-107553/1-A	Method Blank	Total/NA	Solid	5030C	

### Analysis Batch: 107773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	8260B	105700
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	8260B	105700
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	8260B	105700
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	8260B	105700
570-42384-9	V327	Total/NA	Solid	8260B	105700
570-42384-10	V509-1-0.5	Total/NA	Solid	8260B	105700
MB 570-107773/7	Method Blank	Total/NA	Solid	8260B	
LCS 570-107773/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 570-107773/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

### Analysis Batch: 108345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-6	CT1106	Total/NA	Solid	8260B	107553
570-42384-7	CT817	Total/NA	Solid	8260B	107553
570-42384-8	CT824	Total/NA	Solid	8260B	107553
MB 570-108479/1-A	Method Blank	Total/NA	Solid	8260B	108479
LCS 570-108348/1-A	Lab Control Sample	Total/NA	Solid	8260B	108348
LCSD 570-108348/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	108348

### Prep Batch: 108348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-108348/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-108348/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

### Prep Batch: 108479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-108479/1-A	Method Blank	Total/NA	Solid	5030C	

Eurofins Calscience LLC

# QC Association Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## GC/MS VOA

### Analysis Batch: 108483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-11	EB-102920	Total/NA	Water	8260B	
570-42384-12	TB1	Total/NA	Water	8260B	
570-42384-13	TB2	Total/NA	Water	8260B	
570-42384-14	TB3	Total/NA	Water	8260B	
570-42384-15	TB4	Total/NA	Water	8260B	
MB 570-108483/6	Method Blank	Total/NA	Water	8260B	
LCS 570-108483/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-108483/4	Lab Control Sample Dup	Total/NA	Water	8260B	

### Analysis Batch: 108673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-6 - RA	CT1106	Total/NA	Solid	8260B	107553
570-42384-7 - RA	CT817	Total/NA	Solid	8260B	107553
570-42384-8 - RA	CT824	Total/NA	Solid	8260B	107553
MB 570-108690/3-A	Method Blank	Total/NA	Solid	8260B	108690
LCS 570-108690/1-A	Lab Control Sample	Total/NA	Solid	8260B	108690
LCSD 570-108690/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	108690

### Prep Batch: 108690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-108690/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-108690/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-108690/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

### Analysis Batch: 108700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	8260B	
MB 570-108700/6	Method Blank	Total/NA	Water	8260B	
LCS 570-108700/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 570-108700/4	Lab Control Sample Dup	Total/NA	Water	8260B	

## GC VOA

### Prep Batch: 105697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-9	V327	Total/NA	Solid	5035	
570-42384-10	V509-1-0.5	Total/NA	Solid	5035	

### Prep Batch: 105700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	5035	
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	5035	
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	5035	
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	5035	

### Prep Batch: 107553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-6	CT1106	Total/NA	Solid	5030C	
570-42384-7	CT817	Total/NA	Solid	5030C	
570-42384-8	CT824	Total/NA	Solid	5030C	
MB 570-107553/1-A	Method Blank	Total/NA	Solid	5030C	

Eurofins Calscience LLC

# QC Association Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## GC VOA

### Analysis Batch: 107882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	8015B	
570-42384-11	EB-102920	Total/NA	Water	8015B	
570-42384-12	TB1	Total/NA	Water	8015B	
570-42384-13	TB2	Total/NA	Water	8015B	
570-42384-14	TB3	Total/NA	Water	8015B	
MB 570-107882/57	Method Blank	Total/NA	Water	8015B	
LCS 570-107882/55	Lab Control Sample	Total/NA	Water	8015B	
LCSD 570-107882/56	Lab Control Sample Dup	Total/NA	Water	8015B	

### Analysis Batch: 107903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	8015B	105700
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	8015B	105700
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	8015B	105700
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	8015B	105700
570-42384-9	V327	Total/NA	Solid	8015B	105697
570-42384-10	V509-1-0.5	Total/NA	Solid	8015B	105697
MB 570-107903/30	Method Blank	Total/NA	Solid	8015B	
MB 570-107903/49	Method Blank	Total/NA	Solid	8015B	
LCS 570-107903/56	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 570-107903/57	Lab Control Sample Dup	Total/NA	Solid	8015B	

### Analysis Batch: 108697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-15	TB4	Total/NA	Water	8015B	
MB 570-108697/5	Method Blank	Total/NA	Water	8015B	
LCS 570-108697/3	Lab Control Sample	Total/NA	Water	8015B	
LCSD 570-108697/4	Lab Control Sample Dup	Total/NA	Water	8015B	

### Analysis Batch: 108715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-6	CT1106	Total/NA	Solid	8015B	107553
570-42384-7	CT817	Total/NA	Solid	8015B	107553
570-42384-8	CT824	Total/NA	Solid	8015B	107553
MB 570-107553/1-A	Method Blank	Total/NA	Solid	8015B	107553
MB 570-108732/1-A	Method Blank	Total/NA	Solid	8015B	108732
LCS 570-108732/2-A	Lab Control Sample	Total/NA	Solid	8015B	108732
LCSD 570-108732/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	108732

### Prep Batch: 108732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-108732/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-108732/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-108732/3-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

## GC Semi VOA

### Prep Batch: 107061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	3510C	
570-42384-1 - DL	TK130-M	Total/NA	Water	3510C	

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# QC Association Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## GC Semi VOA (Continued)

### Prep Batch: 107061 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-11	EB-102920	Total/NA	Water	3510C	
MB 570-107061/1-A	Method Blank	Total/NA	Water	3510C	
LCS 570-107061/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 570-107061/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 108100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	8015B	107061
570-42384-11	EB-102920	Total/NA	Water	8015B	107061
MB 570-107061/1-A	Method Blank	Total/NA	Water	8015B	107061
LCS 570-107061/2-A	Lab Control Sample	Total/NA	Water	8015B	107061
LCSD 570-107061/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	107061

### Prep Batch: 108392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	3550C	
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	3550C	
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	3550C	
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	3550C	
570-42384-6	CT1106	Total/NA	Solid	3550C	
570-42384-7	CT817	Total/NA	Solid	3550C	
570-42384-8	CT824	Total/NA	Solid	3550C	
570-42384-9	V327	Total/NA	Solid	3550C	
570-42384-10	V509-1-0.5	Total/NA	Solid	3550C	
MB 570-108392/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-108392/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-108392/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

### Analysis Batch: 108425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	8015B	108392
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	8015B	108392
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	8015B	108392
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	8015B	108392
570-42384-9	V327	Total/NA	Solid	8015B	108392
570-42384-10	V509-1-0.5	Total/NA	Solid	8015B	108392
MB 570-108392/1-A	Method Blank	Total/NA	Solid	8015B	108392
LCS 570-108392/2-A	Lab Control Sample	Total/NA	Solid	8015B	108392
LCSD 570-108392/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	108392

### Analysis Batch: 108576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1 - DL	TK130-M	Total/NA	Water	8015B	107061

### Analysis Batch: 108899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-6	CT1106	Total/NA	Solid	8015B	108392
570-42384-7	CT817	Total/NA	Solid	8015B	108392
570-42384-8	CT824	Total/NA	Solid	8015B	108392

# QC Association Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Metals

### Prep Batch: 106694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	3010A	
570-42384-11	EB-102920	Total/NA	Water	3010A	
MB 570-106694/1-A	Method Blank	Total/NA	Water	3010A	
LCS 570-106694/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 570-106694/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

### Prep Batch: 106836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	7470A	
570-42384-11	EB-102920	Total/NA	Water	7470A	
MB 570-106836/1-A	Method Blank	Total/NA	Water	7470A	
LCS 570-106836/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 570-106836/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

### Analysis Batch: 106912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	6010B	106694
570-42384-11	EB-102920	Total/NA	Water	6010B	106694
MB 570-106694/1-A	Method Blank	Total/NA	Water	6010B	106694
LCS 570-106694/2-A	Lab Control Sample	Total/NA	Water	6010B	106694
LCSD 570-106694/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	106694

### Analysis Batch: 106935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	7470A	106836
570-42384-11	EB-102920	Total/NA	Water	7470A	106836
MB 570-106836/1-A	Method Blank	Total/NA	Water	7470A	106836
LCS 570-106836/2-A	Lab Control Sample	Total/NA	Water	7470A	106836
LCSD 570-106836/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	106836

### Analysis Batch: 107062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	6010B	106694

### Analysis Batch: 107268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-1	TK130-M	Total/NA	Water	6010B	106694

### Prep Batch: 108557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	3050B	
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	3050B	
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	3050B	
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	3050B	
570-42384-6	CT1106	Total/NA	Solid	3050B	
570-42384-7	CT817	Total/NA	Solid	3050B	
570-42384-8	CT824	Total/NA	Solid	3050B	
570-42384-9	V327	Total/NA	Solid	3050B	
570-42384-10	V509-1-0.5	Total/NA	Solid	3050B	
MB 570-108557/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-108557/2-A	Lab Control Sample	Total/NA	Solid	3050B	

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# QC Association Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Metals (Continued)

### Prep Batch: 108557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-108557/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	

### Prep Batch: 108558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	7471A	
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	7471A	
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	7471A	
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	7471A	
570-42384-6	CT1106	Total/NA	Solid	7471A	
570-42384-7	CT817	Total/NA	Solid	7471A	
570-42384-8	CT824	Total/NA	Solid	7471A	
570-42384-9	V327	Total/NA	Solid	7471A	
570-42384-10	V509-1-0.5	Total/NA	Solid	7471A	
MB 570-108558/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-108558/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-108558/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

### Analysis Batch: 108725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	6010B	108557
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	6010B	108557
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	6010B	108557
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	6010B	108557
570-42384-6	CT1106	Total/NA	Solid	6010B	108557
570-42384-7	CT817	Total/NA	Solid	6010B	108557
570-42384-8	CT824	Total/NA	Solid	6010B	108557
570-42384-9	V327	Total/NA	Solid	6010B	108557
570-42384-10	V509-1-0.5	Total/NA	Solid	6010B	108557
MB 570-108557/1-A	Method Blank	Total/NA	Solid	6010B	108557
LCS 570-108557/2-A	Lab Control Sample	Total/NA	Solid	6010B	108557
LCSD 570-108557/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	108557

### Analysis Batch: 108775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	7471A	108558
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	7471A	108558
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	7471A	108558
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	7471A	108558
570-42384-6	CT1106	Total/NA	Solid	7471A	108558
570-42384-7	CT817	Total/NA	Solid	7471A	108558
570-42384-8	CT824	Total/NA	Solid	7471A	108558
570-42384-9	V327	Total/NA	Solid	7471A	108558
570-42384-10	V509-1-0.5	Total/NA	Solid	7471A	108558
MB 570-108558/1-A	Method Blank	Total/NA	Solid	7471A	108558
LCS 570-108558/2-A	Lab Control Sample	Total/NA	Solid	7471A	108558
LCSD 570-108558/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	108558

### Analysis Batch: 108805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	6010B	108557
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	6010B	108557

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# QC Association Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Metals (Continued)

### Analysis Batch: 108805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	6010B	108557

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: TK130-M**

**Lab Sample ID: 570-42384-1**

**Date Collected: 10/29/20 10:25**

**Matrix: Water**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	108700	11/11/20 14:38	J78Y	ECL 2
Instrument ID: GCMSQQ										
Total/NA	Analysis	8015B		1	5 mL	5 mL	107882	11/07/20 19:01	W6MG	ECL 2
Instrument ID: GC56										
Total/NA	Prep	3510C			517.4 mL	2.5 mL	107061	11/04/20 16:29	UWEZ	ECL 1
Total/NA	Analysis	8015B		1			108100	11/10/20 08:42	UJ3K	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3510C	DL		517.4 mL	2.5 mL	107061	11/04/20 16:29	UWEZ	ECL 1
Total/NA	Analysis	8015B	DL	5			108576	11/10/20 20:08	UJ3K	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3010A			50 mL	50 mL	106694	11/03/20 14:40	WL8G	ECL 1
Total/NA	Analysis	6010B		1			106912	11/03/20 22:36	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	3010A			50 mL	50 mL	106694	11/03/20 14:40	WL8G	ECL 1
Total/NA	Analysis	6010B		20			107062	11/04/20 14:58	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	3010A			50 mL	50 mL	106694	11/03/20 14:40	WL8G	ECL 1
Total/NA	Analysis	6010B		100			107268	11/04/20 21:02	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7470A			50 mL	100 mL	106836	11/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			106935	11/04/20 12:58	MD3A	ECL 1
Instrument ID: HG8										

**Client Sample ID: V23602-1-1.5**

**Lab Sample ID: 570-42384-2**

**Date Collected: 10/29/20 09:10**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.036 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8260B		250	5 mL	5 mL	107773	11/07/20 06:45	BE5H	ECL 2
Instrument ID: GCMSLL										
Total/NA	Prep	5035			6.036 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8015B		200	5 mL	5 mL	107903	11/08/20 06:46	A9VE	ECL 2
Instrument ID: GC25										
Total/NA	Prep	3550C			10.13 g	10 mL	108392	11/10/20 09:47	UFLU	ECL 1
Total/NA	Analysis	8015B		1			108425	11/10/20 22:42	UJ3K	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			2.03 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:05	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	3050B			2.03 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		5			108805	11/11/20 11:51	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.59 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:41	MD3A	ECL 1
Instrument ID: HG8										

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# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: DB30001VB-1-1.5**

**Lab Sample ID: 570-42384-3**

**Date Collected: 10/29/20 07:50**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.469 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8260B		200	5 mL	5 mL	107773	11/07/20 06:19	BE5H	ECL 2
Instrument ID: GCMSLL										
Total/NA	Prep	5035			8.469 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8015B		200	5 mL	5 mL	107903	11/08/20 07:11	A9VE	ECL 2
Instrument ID: GC25										
Total/NA	Prep	3550C			10.25 g	10 mL	108392	11/10/20 09:47	UFLU	ECL 1
Total/NA	Analysis	8015B		1			108425	11/10/20 23:05	UJ3K	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			2.07 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:07	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.62 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:47	MD3A	ECL 1
Instrument ID: HG8										

**Client Sample ID: DB3000VB-1-1.5**

**Lab Sample ID: 570-42384-4**

**Date Collected: 10/29/20 08:10**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.839 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8260B		500	5 mL	5 mL	107773	11/07/20 05:53	BE5H	ECL 2
Instrument ID: GCMSLL										
Total/NA	Prep	5035			4.839 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8015B		200	5 mL	5 mL	107903	11/08/20 07:36	A9VE	ECL 2
Instrument ID: GC25										
Total/NA	Prep	3550C			10.12 g	10 mL	108392	11/10/20 09:47	UFLU	ECL 1
Total/NA	Analysis	8015B		1			108425	11/10/20 23:27	UJ3K	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			1.99 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:19	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	3050B			1.99 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		5			108805	11/11/20 11:53	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.60 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:49	MD3A	ECL 1
Instrument ID: HG8										

# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: DB3000VB-1-1.5D**

**Lab Sample ID: 570-42384-5**

**Date Collected: 10/29/20 08:11**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.078 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8260B		250	5 mL	5 mL	107773	11/07/20 05:28	BE5H	ECL 2
Instrument ID: GCMSLL										
Total/NA	Prep	5035			5.078 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8015B		200	5 mL	5 mL	107903	11/08/20 08:01	A9VE	ECL 2
Instrument ID: GC25										
Total/NA	Prep	3550C			10.23 g	10 mL	108392	11/10/20 09:47	UFLU	ECL 1
Total/NA	Analysis	8015B		1			108425	11/10/20 23:49	UJ3K	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			2.02 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:21	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	3050B			2.02 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		5			108805	11/11/20 11:56	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.59 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:50	MD3A	ECL 1
Instrument ID: HG8										

**Client Sample ID: CT1106**

**Lab Sample ID: 570-42384-6**

**Date Collected: 10/29/20 10:00**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C	RA		1.01 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8260B	RA	50	5 mL	5 mL	108673	11/11/20 15:06	BE5H	ECL 2
Instrument ID: GCMSCC										
Total/NA	Prep	5030C			1.01 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8260B		50	5 mL	5 mL	108345	11/10/20 19:54	MGX6	ECL 2
Instrument ID: GCMSGGG										
Total/NA	Prep	5030C			1.01 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8015B		200	5 mL	5 mL	108715	11/11/20 17:50	A9VE	ECL 2
Instrument ID: GC57										
Total/NA	Prep	3550C			1.19 g	10 mL	108392	11/10/20 09:47	UFLU	ECL 1
Total/NA	Analysis	8015B		100			108899	11/11/20 20:13	A1W	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			0.98 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:27	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.61 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:56	MD3A	ECL 1
Instrument ID: HG8										

Eurofins Calscience LLC

# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: CT817**  
**Date Collected: 10/29/20 09:47**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C	RA		0.99 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8260B	RA	50	5 mL	5 mL	108673	11/11/20 15:33	BE5H	ECL 2
Instrument ID: GCMSCC										
Total/NA	Prep	5030C			0.99 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8260B		50	5 mL	5 mL	108345	11/10/20 20:19	MGX6	ECL 2
Instrument ID: GCMSSGGG										
Total/NA	Prep	5030C			0.99 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8015B		200	5 mL	5 mL	108715	11/11/20 18:14	A9VE	ECL 2
Instrument ID: GC57										
Total/NA	Prep	3550C			2.17 g	10 mL	108392	11/10/20 09:47	UFLU	ECL 1
Total/NA	Analysis	8015B		100			108899	11/11/20 20:35	A1W	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			0.97 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:28	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.63 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:58	MD3A	ECL 1
Instrument ID: HG8										

**Client Sample ID: CT824**  
**Date Collected: 10/29/20 09:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C	RA		1.02 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8260B	RA	50	5 mL	5 mL	108673	11/11/20 16:02	BE5H	ECL 2
Instrument ID: GCMSCC										
Total/NA	Prep	5030C			1.02 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8260B		50	5 mL	5 mL	108345	11/10/20 19:29	MGX6	ECL 2
Instrument ID: GCMSSGGG										
Total/NA	Prep	5030C			1.02 g	10 mL	107553	11/06/20 16:24	BE5H	ECL 2
Total/NA	Analysis	8015B		200	5 mL	5 mL	108715	11/11/20 18:37	A9VE	ECL 2
Instrument ID: GC57										
Total/NA	Prep	3550C			1.11 g	10 mL	108392	11/10/20 09:47	UFLU	ECL 1
Total/NA	Analysis	8015B		200			108899	11/11/20 20:58	A1W	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			1.03 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:30	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.60 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 14:00	MD3A	ECL 1
Instrument ID: HG8										



# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: V327**

**Lab Sample ID: 570-42384-9**

**Date Collected: 10/29/20 08:55**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.764 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8260B		50	5 mL	5 mL	107773	11/07/20 05:02	BE5H	ECL 2
Instrument ID: GCMSLL										
Total/NA	Prep	5035			4.437 g	5 g	105697	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8015B		1	5 mL	5 mL	107903	11/08/20 05:07	A9VE	ECL 2
Instrument ID: GC25										
Total/NA	Prep	3550C			10.04 g	10 mL	108392	11/10/20 10:31	UFLU	ECL 1
Total/NA	Analysis	8015B		1			108425	11/11/20 00:12	UJ3K	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			2.05 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:22	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.60 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:52	MD3A	ECL 1
Instrument ID: HG8										

**Client Sample ID: V509-1-0.5**

**Lab Sample ID: 570-42384-10**

**Date Collected: 10/29/20 08:46**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.442 g	5 mL	105700	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8260B		50	5 mL	5 mL	107773	11/07/20 04:37	BE5H	ECL 2
Instrument ID: GCMSLL										
Total/NA	Prep	5035			5.504 g	5 g	105697	10/29/20 19:56	BE5H	ECL 2
Total/NA	Analysis	8015B		1	5 mL	5 mL	107903	11/08/20 05:32	A9VE	ECL 2
Instrument ID: GC25										
Total/NA	Prep	3550C			10.01 g	10 mL	108392	11/10/20 10:31	UFLU	ECL 1
Total/NA	Analysis	8015B		1			108425	11/11/20 00:34	UJ3K	ECL 1
Instrument ID: GC46										
Total/NA	Prep	3050B			2.02 g	100 mL	108557	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			108725	11/11/20 00:25	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.61 g	100 mL	108558	11/10/20 18:00	SP7J	ECL 1
Total/NA	Analysis	7471A		1			108775	11/11/20 13:54	MD3A	ECL 1
Instrument ID: HG8										

**Client Sample ID: EB-102920**

**Lab Sample ID: 570-42384-11**

**Date Collected: 10/29/20 11:00**

**Matrix: Water**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	108483	11/11/20 01:17	J78Y	ECL 2
Instrument ID: GCMSQQ										
Total/NA	Analysis	8015B		1	5 mL	5 mL	107882	11/07/20 17:51	W6MG	ECL 2
Instrument ID: GC56										

Eurofins Calscience LLC

# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: EB-102920**

**Lab Sample ID: 570-42384-11**

Date Collected: 10/29/20 11:00

Matrix: Water

Date Received: 10/29/20 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			502.1 mL	2.5 mL	107061	11/04/20 16:29	UWEZ	ECL 1
Total/NA	Analysis	8015B		1			108100	11/10/20 09:03	UJ3K	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3010A			50 mL	50 mL	106694	11/03/20 14:40	WL8G	ECL 1
Total/NA	Analysis	6010B		1			106912	11/03/20 22:45	OYW3	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7470A			50 mL	100 mL	106836	11/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	7470A		1			106935	11/04/20 13:00	MD3A	ECL 1
Instrument ID: HG8										

**Client Sample ID: TB1**

**Lab Sample ID: 570-42384-12**

Date Collected: 10/29/20 10:50

Matrix: Water

Date Received: 10/29/20 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	108483	11/11/20 01:44	J78Y	ECL 2
Instrument ID: GCMSQQ										
Total/NA	Analysis	8015B		1	5 mL	5 mL	107882	11/07/20 15:06	W6MG	ECL 2
Instrument ID: GC56										

**Client Sample ID: TB2**

**Lab Sample ID: 570-42384-13**

Date Collected: 10/29/20 10:51

Matrix: Water

Date Received: 10/29/20 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	108483	11/11/20 00:50	J78Y	ECL 2
Instrument ID: GCMSQQ										
Total/NA	Analysis	8015B		1	5 mL	5 mL	107882	11/07/20 15:30	W6MG	ECL 2
Instrument ID: GC56										

**Client Sample ID: TB3**

**Lab Sample ID: 570-42384-14**

Date Collected: 10/29/20 10:50

Matrix: Water

Date Received: 10/29/20 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	108483	11/10/20 23:55	J78Y	ECL 2
Instrument ID: GCMSQQ										
Total/NA	Analysis	8015B		1	5 mL	5 mL	107882	11/07/20 15:53	W6MG	ECL 2
Instrument ID: GC56										

# Lab Chronicle

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

**Client Sample ID: TB4**

**Lab Sample ID: 570-42384-15**

**Date Collected: 10/29/20 10:51**

**Matrix: Water**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B Instrument ID: GCMSQQ		1	5 mL	5 mL	108483	11/11/20 00:23	J78Y	ECL 2
Total/NA	Analysis	8015B Instrument ID: GC25		1	5 mL	5 mL	108697	11/11/20 12:44	A9VE	ECL 2

### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-30-21
California	State	2944	02-21-21
Guam	State	20-003R	10-31-20 *
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8015B	Gasoline Range Organics - (GC)	SW846	ECL 2
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7470A	Mercury (CVAA)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3010A	Preparation, Total Metals	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ECL 1
3550C	Ultrasonic Extraction	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
5035	Closed System Purge and Trap	SW846	ECL 2
7470A	Preparation, Mercury	SW846	ECL 1
7471A	Preparation, Mercury	SW846	ECL 1

#### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Sample Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

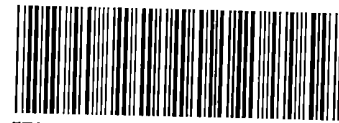
Job ID: 570-42384-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-42384-1	TK130-M	Water	10/29/20 10:25	10/29/20 12:55	
570-42384-2	V23602-1-1.5	Solid	10/29/20 09:10	10/29/20 12:55	
570-42384-3	DB30001VB-1-1.5	Solid	10/29/20 07:50	10/29/20 12:55	
570-42384-4	DB3000VB-1-1.5	Solid	10/29/20 08:10	10/29/20 12:55	
570-42384-5	DB3000VB-1-1.5D	Solid	10/29/20 08:11	10/29/20 12:55	
570-42384-6	CT1106	Solid	10/29/20 10:00	10/29/20 12:55	
570-42384-7	CT817	Solid	10/29/20 09:47	10/29/20 12:55	
570-42384-8	CT824	Solid	10/29/20 09:55	10/29/20 12:55	
570-42384-9	V327	Solid	10/29/20 08:55	10/29/20 12:55	
570-42384-10	V509-1-0.5	Solid	10/29/20 08:46	10/29/20 12:55	
570-42384-11	EB-102920	Water	10/29/20 11:00	10/29/20 12:55	
570-42384-12	TB1	Water	10/29/20 10:50	10/29/20 12:55	
570-42384-13	TB2	Water	10/29/20 10:51	10/29/20 12:55	
570-42384-14	TB3	Water	10/29/20 10:50	10/29/20 12:55	
570-42384-15	TB4	Water	10/29/20 10:51	10/29/20 12:55	

**Eurofins Calscience LLC**

7440 Lincoln Way  
Garden Grove, CA 92841  
Phone (714) 895-5494 Fax (714) 894-7501

**Chain of Custody Record**



570-42384 Chain of Custody



Environment Testing  
America

42384

<b>Client Information</b>		Sampler: Meredith Church & Kalie Duccini		Lab PM: Dang, Xuan		COC No: 570-18633-4685.1			
Client Contact:		Phone: 949-293-2519		E-Mail: xuandang@eurofinsus.com		Page: 1 of 2			
Accounts Payable		Company: Leighton Consulting Inc		<b>Analysis Requested</b>		Job #: 115610.015			
Address: 17781 Cowan Suite 200		Due Date Requested:		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 8260B VOCs & Oxygenates, 50351 8260B <i>V.A.K. = A</i> 8015B_GRO C4-C12, 50351/8015B <i>Water = A</i> 8015B_TPH-CC Breakdown C6-C44 - No Silica Gel Surrog <i>Water = A</i> 6010B, 7470A, T22 metals + Extended list & Merck <i>Water = D</i> Pb-210 <i>subtracted for</i> Po-210 <i>outside lab</i>		Preservation Codes:			
City: Irvine		TAT Requested (days): Normal TAT				Total Number of containers		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
State, Zip: CA, 92614		PO #: 11561.015				Other:		Amber unpreserved Special Instructions/Note:	
Phone: 949-293-2519(Tel)		WO #:				Do not dispose until authorized. Extra bottles of water provided & marked held.		Sample Identification      Sample Date      Sample Time      Sample Type (C=comp, G=grab)      Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	
Email: acctpayable@eightongroup.com		Project #: 57005662				Preservation Code:		X X X X   	
Project Name: SoCal Gas, Project # 11561.015		SSOW#:		1 TK130-M 10/29/20 10:25 Grab W 2 V23602-1-1.5 10/29/20 0910 Grab S 3 DB32601VB-1-1.5 10/29/20 0750 Grab S 4 DB3000VB-1-1.5 10/29/20 0810 Grab S 5 DB3000VB-1-1.5D 10/29/20 0811 Grab S 6 CT1106 10/29/20 1000 Grab S 7 CT817 10/29/20 0947 Grab S 8 CT824 10/29/20 0955 Grab S 9 V327 10/29/20 0855 Grab S 10 V509-1-0.5 10/29/20 0846 Grab S 11 EB-102920 10/29/20 1100 Grab W		4 + 12 VOA HCL + 4 HPO <sub>3</sub> + 2 Lg poly served 1 + 5 1 + 5 1 + 5 1 + 5 1 oil Product - crude 1 oil product - crude 1 oil product - crude 1 + 5 1 + 5 1 + 6 + 1			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)      Level II (Standard)				Special Instructions/QC Requirements: J-Flag Results, Show TICs					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: Meredith Church <i>Meredith Church</i>		Date/Time: 10/29/20 12:55		Company: Leighton Consulting		Received by: <i>[Signature]</i>			
Relinquished by:		Date/Time:		Company:		Received by:			
Relinquished by:		Date/Time:		Company:		Received by:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.8/2.0, 3.0/2.2, 2.8/2.0 SCG, 3.0/2.2 SC6					

**Eurofins Calscience LLC**

7440 Lincoln Way  
Garden Grove, CA 92841  
Phone (714) 895-5494 Fax (714) 894-7501

**Chain of Custody Record**

**eurofins** Environment Testing  
America

42384

<b>Client Information</b>		Sampler: Meredith Church & Kalie Duccini		Lab PM: Dang, Xuan		Carrier Tracking No(s):		COC No: 570-18633-4685.1					
Client Contact: Accounts Payable		Phone: 949-293-2519		E-Mail: xuandang@eurofinsus.com				Page: 2 of 2					
Company: Leighton Consulting Inc				<b>Analysis Requested</b>						Job #: 115610.015			
Address: 17781 Cowan Suite 200		Due Date Requested:		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 8260B VOCs & Oxygenates, 5035f 8260B HCl 8015B_GRO C4-C12, 5035f 8015B HCl 8015B_TPH-CC Breakdown C6-C44 - No Silica Gel Surrog 6010B, 7470A, T22 metals + Extended list & Mercury						Preservation Codes:			
City: Irvine		TAT Requested (days): Normal TAT								A - HCL		M - Hexane	
State, Zip: CA, 92614		PO #: 11561.015								B - NaOH		N - None	
Phone: 949-293-2519(Tel)		WO #:								C - Zn Acetate		O - AsNaO2	
Email: acctpayable@leightongroup.com		Project #: 57005662								D - Nitric Acid		P - Na2O4S	
Project Name: SoCal Gas, Project # 11561.015		SSOW#:		E - NaHSO4		Q - Na2SO3							
Site: 12801 Tampa Avenue, Porter Ranch, CA		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Total Number of containers			
Do not dispose of samples until Client authorization provided. Extra bottles of water submitted and Sample Identification marked "hold"		Preservation Code:		E/F		E/F		N		N			
		10/29/20		1050		Grab		W		4			
		10/29/20		1051		Grab		W		4			
		10/29/20		1050		Grab		W		4			
		10/29/20		1051		Grab		W		4			
		10/29/20				Grab							
		10/29/20				Grab							
		10/29/20				Grab							
		10/29/20				Grab							
		10/29/20				Grab							
		10/29/20				Grab							
<b>Possible Hazard Identification</b>				<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)				Level II (Standard)				Special Instructions/QC Requirements: J-Flag Results, Show TICs					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:							
Relinquished by: Meredith Church <i>[Signature]</i>		Date/Time: 10/29/20 12:55		Company: Leighton Consulting		Received by: <i>[Signature]</i>		Date/Time: 10/29/20 12:55		Company: <i>[Signature]</i>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:							

12  
13  
14  
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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM Dang, Xuan	Carrier Tracking No(s) 570-60292.1
Client Contact: Shipping/Receiving		E-Mail: Xuan.Dang@eurofins.com	State of Origin: California
Company: TestAmerica Laboratories, Inc.		Page Page 1 of 1	
Address: 13715 Rider Trail North, Earth City State, Zip: MO, 63045		Job # 570-42384-2	COC No. 570-60292.1
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Email:		Other:	
Project #: SoCal Gas, Project # 11561.015		Analysis Requested	
Site:		GA_01_R_Ra/Fill_Geo_21 (MOD) Copy Analytes	
Due Date Requested: 11/10/2020		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	
TAT Requested (days):		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
PO #:		A01R_PoIdig_CuPlate (MOD) Standard Target List	
WO #:		Total Number of Containers	
Project #: 57005662		Special Instructions/Note:	
SSOW#:		Need 150g	
Sample Identification - Client ID (Lab ID)		Need 150g	
V23602-1-1.5 (570-42384-2)	Sample Date: 10/29/20	Sample Time: 09:10 Pacific	Sample Type: Solid
DBS0001VB-1-1.5 (570-42384-3)	Sample Date: 10/29/20	Sample Time: 07:50 Pacific	Sample Type: Solid
DB3000VB-1-1.5 (570-42384-4)	Sample Date: 10/29/20	Sample Time: 08:10 Pacific	Sample Type: Solid
DB3000VB-1-1.5D (570-42384-5)	Sample Date: 10/29/20	Sample Time: 08:11 Pacific	Sample Type: Solid
V327 (570-42384-9)	Sample Date: 10/29/20	Sample Time: 08:55 Pacific	Sample Type: Solid
V509-1-0.5 (570-42384-10)	Sample Date: 10/29/20	Sample Time: 08:46 Pacific	Sample Type: Solid
<p>Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.</p>			
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2</p>			
Empty Kit Relinquished by: _____			
Relinquished by: _____ Date: _____			
Relinquished by: _____ Date/Time: 11/2/2020 09:50 Company: ESI			
Relinquished by: _____ Date/Time: _____ Company: _____			
Relinquished by: _____ Date/Time: _____ Company: _____			
Custody Seals Intact: _____ Custody Seal No.: _____			
Cooler Temperature(s) °C and Other Remarks: _____			



ORIGIN ID: APVA (714) 895-5494  
SAMPLE CONTROL  
CAL SCIENCE ENVIRONMENTAL LAB  
7440 LINCOLN WAY

GARDEN GROVE, CA 92841  
UNITED STATES US

SHIP DATE: 02NOV20  
ACTWGT: 37.00 LB  
CAD: 1533735/NET4280

BILL SENDER

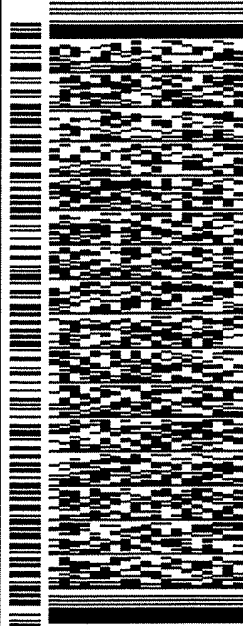
TO **SAMPLE RECEIVING**  
**EUOFINS TESTAMERICA**  
**13715 RIDER TRAIL NORTH**

**EARTH CITY MO 63045**

INV: (314) 298-8566 REF: X0142384

PO: PO: DEPT:

56B3J51D81B766



**FedEx**  
Express

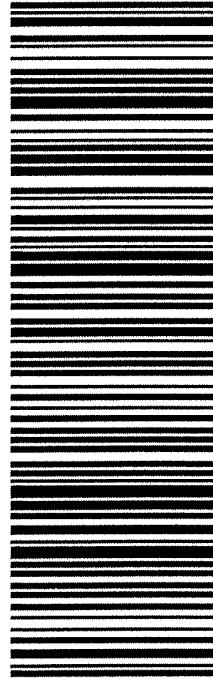


J202020071401116

TRK# 7719 6548 0491  
0201

TUE - 03 NOV 10:30A  
PRIORITY OVERNIGHT

**XX ALNA**  
MO-US **STL**  
63045



Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.  
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, document your actual loss, damage, delay, non-delivery, misdelivery, or information, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.



# Shipping Order Form - Bottle Order



Environment Testing  
America



**Eurofins Calscience LLC**  
7440 Lincoln Way  
Garden Grove, CA 92841  
Phone (714) 895-5494 Fax (714) 894-7501

**Shipping Order ID: 22258**

**Ship Via: Golden State**

**Due On: 10/28/2020 5:00:00PM**

### Ship To Information

*Project Manager: Xuan Dang*  
*Tel: (714) 895-5494 Em: Xuan.Dang@eurofinset.com*  
*Company Name: Leighton Consulting Inc*  
*Attention: Meredith Church*  
*Address 1: 17781 Cowan*  
*Address 2: Suite 200*  
*Address 3:*  
*City: Irvine*  
*State: CA*  
*Zip: 92614*  
*Phone #: 949-293-2519*  
*Project Ref: SoCal Gas, Project # 11561.015*

### Notes to Bottle/Shipping Department

DEL 8 coolers + containers

Shipping Method: **Standard packing**

- Ready to Fill
- Preprinted COC
- Number of COC Copies
- Seals on Bottle
- Seals on Coolers
- Priority
- Return Shipment Labels
- Prepaid Return  
Eurofins Calscience LLC
- Short Hold Times
- Temperature Control
- Rush

**Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.**

### Shipping Assets

Assets	Quantity	Description	Filled
Blank labels	1	enough for all containers	<input type="checkbox"/>
Coolers	8	enough to hold containers + ice	<input type="checkbox"/>
Temperature Blanks	8	one for each cooler	<input type="checkbox"/>

- 1
- 2
- 3
- 4
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- 12
- 13
- 14
- 15

**Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.**

**Bottle Order Information**

Bottle Order: SoCal Gas, Project # 11561.015  
 Bottle Order #: 5524  
 Request From Client: 10/23/2020  
 Date Order Posted: 10/23/2020 5:58:27PM  
 Order Status: In Process  
 Prepared By: Xuan Dang  
**Deliver By Date: 10/28/2020 5:00:00PM**  
 Lab Project Number: 57005662

**Order Completion Information**

Creator: Xuan Dang  
 Filled by:  
 Sent Date:  
 Sent Via:  
 Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
1	48	48	Soil jar 16oz	None		Solid	Normal		
1	10	10	Plastic 1 Gallon - unpreserved	None		Solid	Normal	@\$10 each	
1	5	5	Amber Glass 1 liter - unpreserved	None		Solid	Normal		
1	5	5	Plastic 250ml - with Nitric Acid	Nitric Acid		Solid	Normal	Metals	
1	18	18	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid		Solid	Normal	6 voa vials/sample VOC+GRO	

**Total Bottle Summary**

Bottle Type Description	Preservative	Bottle Count
Amber Glass 1 liter - unpreserved	None	5
Plastic 1 Gallon - unpreserved	None	10
Plastic 250ml - with Nitric Acid	Nitric Acid	5
Soil jar 16oz	None	48
Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid	18
Total Bottles:		<b>86</b>

**Notes to Field Staff:**



Scan QR code for field sampler instructions

**Health and Safety Notes:**

Preservative	Comment
Hydrochloric Acid	CAUTION! CONTAINS 1:1 HYDROCHLORIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.
Nitric Acid	CAUTION! STRONG OXIDIZER! CONTAINS 1:1 NITRIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
						Seal #:
						Seal #:
						Seal #:

Please notify your PM immediately if an error is found in shipment. When returning samples, please return all provided QC samples.

## Login Sample Receipt Checklist

Client: Leighton Consulting Inc

Job Number: 570-42384-1

**Login Number: 42384**  
**List Number: 1**  
**Creator: Patel, Jayesh**

**List Source: Eurofins Calscience LLC**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## APPENDIX C

Laboratory Report – Eurofins-Test America,  
Po-210 and Pb-210



Leighton

## ANALYTICAL REPORT

Eurofins Calscience LLC  
7440 Lincoln Way  
Garden Grove, CA 92841  
Tel: (714)895-5494

Laboratory Job ID: 570-42384-2  
Client Project/Site: SoCal Gas, Project # 11561.015

For:  
Leighton Consulting Inc  
17781 Cowan  
Suite 200  
Irvine, California 92614

Attn: Meredith Church



Authorized for release by:  
12/30/2020 5:55:12 PM

Xuan Dang, Project Manager I  
(714)895-5494  
[Xuan.Dang@eurofinset.com](mailto:Xuan.Dang@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*





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# Definitions/Glossary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

## Job ID: 570-42384-2

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-42384-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/29/2020 12:55 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0° C, 2.2° C, 2.2° C and 3.0° C.

#### Receipt Exceptions

3 of 12 vials(TPH-GRO) for the following sample received empty: TK130-M (570-42384-1). Client requested 6 of the 12 vials to be placed on hold for further analysis. Due to the 3 empty vials received, there are now only 3 vials placed on hold for further analysis.

#### RAD

Method A-01-R: Po-210 Prep Batch 160-491596

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

V23602-1-1.5 (570-42384-2), DB30001VB-1-1.5 (570-42384-3), DB3000VB-1-1.5 (570-42384-4), DB3000VB-1-1.5D (570-42384-5), V327 (570-42384-9), V509-1-0.5 (570-42384-10), (LCS 160-491596/2-A), (MB 160-491596/1-A), (280-140900-A-1-F) and (280-140900-A-1-G DU)

Method Fill\_Geo-21:

Method GA-01-R: Gamma Prep Batch 160-488703

Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from    Reported to Analyte

Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

# Case Narrative

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

---

## Job ID: 570-42384-2 (Continued)

---

### Laboratory: Eurofins Calscience LLC (Continued)

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

V23602-1-1.5 (570-42384-2), DB30001VB-1-1.5 (570-42384-3), DB3000VB-1-1.5 (570-42384-4), DB3000VB-1-1.5D (570-42384-5), V327 (570-42384-9), V509-1-0.5 (570-42384-10) and (570-42384-G-2-B DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

## Method: A-01-R - Isotopic Polonium (Alpha Spectrometry)

**Client Sample ID: V23602-1-1.5**  
**Date Collected: 10/29/20 09:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Polonium-210	1.54		0.276	0.305	1.00	0.0953	pCi/g	12/11/20 12:54	12/17/20 15:54	1

**Client Sample ID: DB30001VB-1-1.5**  
**Date Collected: 10/29/20 07:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Polonium-210	1.83		0.309	0.345	1.00	0.140	pCi/g	12/11/20 12:54	12/17/20 15:54	1

**Client Sample ID: DB3000VB-1-1.5**  
**Date Collected: 10/29/20 08:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Polonium-210	1.40		0.263	0.288	1.00	0.0991	pCi/g	12/11/20 12:54	12/17/20 15:54	1

**Client Sample ID: DB3000VB-1-1.5D**  
**Date Collected: 10/29/20 08:11**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Polonium-210	2.29		0.330	0.382	1.00	0.103	pCi/g	12/11/20 12:54	12/17/20 15:54	1

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Polonium-210	2.86		0.379	0.449	1.00	0.125	pCi/g	12/11/20 12:54	12/17/20 15:54	1

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Polonium-210	1.79		0.283	0.321	1.00	0.0743	pCi/g	12/11/20 12:54	12/17/20 15:54	1

# Client Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

## Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

**Client Sample ID: V23602-1-1.5**  
**Date Collected: 10/29/20 09:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	1.78	U	1.70	1.72		1.98	pCi/g	11/10/20 13:34	12/04/20 10:53	1

**Client Sample ID: DB30001VB-1-1.5**  
**Date Collected: 10/29/20 07:50**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	2.48		1.23	1.26		1.54	pCi/g	11/10/20 13:34	12/04/20 13:46	1

**Client Sample ID: DB3000VB-1-1.5**  
**Date Collected: 10/29/20 08:10**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	1.52		1.06	1.08		1.30	pCi/g	11/10/20 13:34	12/04/20 13:45	1

**Client Sample ID: DB3000VB-1-1.5D**  
**Date Collected: 10/29/20 08:11**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	-0.490	U	1.07	1.08		1.79	pCi/g	11/10/20 13:34	12/04/20 13:07	1

**Client Sample ID: V327**  
**Date Collected: 10/29/20 08:55**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	2.39		1.17	1.21		1.21	pCi/g	11/10/20 13:34	12/04/20 14:17	1

**Client Sample ID: V509-1-0.5**  
**Date Collected: 10/29/20 08:46**  
**Date Received: 10/29/20 12:55**

**Lab Sample ID: 570-42384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Lead-210	2.42		1.16	1.20		1.49	pCi/g	11/10/20 13:34	12/04/20 14:19	1

# QC Sample Results

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

## Method: A-01-R - Isotopic Polonium (Alpha Spectrometry)

**Lab Sample ID: MB 160-491596/1-A**  
**Matrix: Solid**  
**Analysis Batch: 492367**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 491596**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Polonium-210	0.01066	U	0.0574	0.0574	1.00	0.120	pCi/g	12/11/20 12:54	12/17/20 15:54	1

**Lab Sample ID: LCS 160-491596/2-A**  
**Matrix: Solid**  
**Analysis Batch: 492368**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 491596**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Polonium-210	3.26	3.430		0.462	1.00	0.0855	pCi/g	105	75 - 113

## Method: GA-01-R - Radium-226 & Other Gamma Emitters (GS)

**Lab Sample ID: MB 160-488703/1-A**  
**Matrix: Solid**  
**Analysis Batch: 490928**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 488703**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Lead-210	0.3391	U	0.812	0.813		1.21	pCi/g	11/10/20 13:34	12/04/20 10:26	1

**Lab Sample ID: LCS 160-488703/2-A**  
**Matrix: Solid**  
**Analysis Batch: 490929**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 488703**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Americium-241	99.9	94.60		11.1		0.871	pCi/g	95	87 - 116
Cesium-137	30.6	29.12		3.06		0.255	pCi/g	95	87 - 120
Cobalt-60	17.1	15.76		1.63		0.142	pCi/g	92	87 - 115

**Lab Sample ID: 570-42384-2 DU**  
**Matrix: Solid**  
**Analysis Batch: 490927**

**Client Sample ID: V23602-1-1.5**  
**Prep Type: Total/NA**  
**Prep Batch: 488703**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total	RL	MDC	Unit	RER	RER
					Uncert. (2σ+/-)					Limit
Lead-210	1.78	U	2.544		1.58		2.00	pCi/g		0.23

# QC Association Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

## Rad

### Prep Batch: 488703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	Fill_Geo-21	
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	Fill_Geo-21	
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	Fill_Geo-21	
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	Fill_Geo-21	
570-42384-9	V327	Total/NA	Solid	Fill_Geo-21	
570-42384-10	V509-1-0.5	Total/NA	Solid	Fill_Geo-21	
MB 160-488703/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-488703/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
570-42384-2 DU	V23602-1-1.5	Total/NA	Solid	Fill_Geo-21	

### Prep Batch: 491596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-42384-2	V23602-1-1.5	Total/NA	Solid	Digest/Cu Plate	
570-42384-3	DB30001VB-1-1.5	Total/NA	Solid	Digest/Cu Plate	
570-42384-4	DB3000VB-1-1.5	Total/NA	Solid	Digest/Cu Plate	
570-42384-5	DB3000VB-1-1.5D	Total/NA	Solid	Digest/Cu Plate	
570-42384-9	V327	Total/NA	Solid	Digest/Cu Plate	
570-42384-10	V509-1-0.5	Total/NA	Solid	Digest/Cu Plate	
MB 160-491596/1-A	Method Blank	Total/NA	Solid	Digest/Cu Plate	
LCS 160-491596/2-A	Lab Control Sample	Total/NA	Solid	Digest/Cu Plate	



# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

**Client Sample ID: V23602-1-1.5**

**Lab Sample ID: 570-42384-2**

**Date Collected: 10/29/20 09:10**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Digest/Cu Plate			1.0043 g	1.0 g	491596	12/11/20 12:54	MNH	TAL SL
Total/NA	Analysis	A-01-R		1			492340	12/17/20 15:54	TJR	TAL SL
Instrument ID: ALPHAVISION										
Total/NA	Prep	Fill_Geo-21			140 g	1.0 g	488703	11/10/20 13:34	HRT	TAL SL
Total/NA	Analysis	GA-01-R		1			490924	12/04/20 10:53	RMJ	TAL SL
Instrument ID: GAMMAVISION										

**Client Sample ID: DB30001VB-1-1.5**

**Lab Sample ID: 570-42384-3**

**Date Collected: 10/29/20 07:50**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Digest/Cu Plate			1.0025 g	1.0 g	491596	12/11/20 12:54	MNH	TAL SL
Total/NA	Analysis	A-01-R		1			492343	12/17/20 15:54	TJR	TAL SL
Instrument ID: ALPHAVISION										
Total/NA	Prep	Fill_Geo-21			165.3 g	1.0 g	488703	11/10/20 13:34	HRT	TAL SL
Total/NA	Analysis	GA-01-R		1			490928	12/04/20 13:46	RMJ	TAL SL
Instrument ID: GAMMAVISION										

**Client Sample ID: DB3000VB-1-1.5**

**Lab Sample ID: 570-42384-4**

**Date Collected: 10/29/20 08:10**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Digest/Cu Plate			1.0061 g	1.0 g	491596	12/11/20 12:54	MNH	TAL SL
Total/NA	Analysis	A-01-R		1			492345	12/17/20 15:54	TJR	TAL SL
Instrument ID: ALPHAVISION										
Total/NA	Prep	Fill_Geo-21			168.2 g	1.0 g	488703	11/10/20 13:34	HRT	TAL SL
Total/NA	Analysis	GA-01-R		1			490929	12/04/20 13:45	RMJ	TAL SL
Instrument ID: GAMMAVISION										

**Client Sample ID: DB3000VB-1-1.5D**

**Lab Sample ID: 570-42384-5**

**Date Collected: 10/29/20 08:11**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Digest/Cu Plate			1.0019 g	1.0 g	491596	12/11/20 12:54	MNH	TAL SL
Total/NA	Analysis	A-01-R		1			492346	12/17/20 15:54	TJR	TAL SL
Instrument ID: ALPHAVISION										
Total/NA	Prep	Fill_Geo-21			166.2 g	1.0 g	488703	11/10/20 13:34	HRT	TAL SL
Total/NA	Analysis	GA-01-R		1			490923	12/04/20 13:07	JCB	TAL SL
Instrument ID: GAMMAVISION										

# Lab Chronicle

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

**Client Sample ID: V327**

**Lab Sample ID: 570-42384-9**

**Date Collected: 10/29/20 08:55**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Digest/Cu Plate			1.0069 g	1.0 g	491596	12/11/20 12:54	MNH	TAL SL
Total/NA	Analysis	A-01-R		1			492348	12/17/20 15:54	TJR	TAL SL
Instrument ID: ALPHAVISION										
Total/NA	Prep	Fill_Geo-21			162.9 g	1.0 g	488703	11/10/20 13:34	HRT	TAL SL
Total/NA	Analysis	GA-01-R		1			490923	12/04/20 14:17	JCB	TAL SL
Instrument ID: GAMMAVISION										

**Client Sample ID: V509-1-0.5**

**Lab Sample ID: 570-42384-10**

**Date Collected: 10/29/20 08:46**

**Matrix: Solid**

**Date Received: 10/29/20 12:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Digest/Cu Plate			1.0018 g	1.0 g	491596	12/11/20 12:54	MNH	TAL SL
Total/NA	Analysis	A-01-R		1			492349	12/17/20 15:54	TJR	TAL SL
Instrument ID: ALPHAVISION										
Total/NA	Prep	Fill_Geo-21			182.3 g	1.0 g	488703	11/10/20 13:34	HRT	TAL SL
Total/NA	Analysis	GA-01-R		1			490925	12/04/20 14:19	JCB	TAL SL
Instrument ID: GAMMAVISION										

**Laboratory References:**

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

# Accreditation/Certification Summary

Client: Leighton Consulting Inc  
 Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

## Laboratory: Eurofins TestAmerica, St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-22
ANAB	Dept. of Defense ELAP	L2305	04-06-22
ANAB	Dept. of Energy	L2305.01	04-06-22
ANAB	ISO/IEC 17025	L2305	04-06-22
Arizona	State	AZ0813	12-08-21
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-21
Iowa	State	373	12-01-22
Kansas	NELAP	E-10236	10-31-21
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	06-30-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
South Carolina	State	85002001	06-30-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

# Method Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

Method	Method Description	Protocol	Laboratory
A-01-R	Isotopic Polonium (Alpha Spectrometry)	DOE	TAL SL
GA-01-R	Radium-226 & Other Gamma Emitters (GS)	DOE	TAL SL
Digest/Cu Plate	Preparation, Digestion & Copper Plating	TAL-STL	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL

#### Protocol References:

DOE = U.S. Department of Energy

None = None

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

#### Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

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# Sample Summary

Client: Leighton Consulting Inc  
Project/Site: SoCal Gas, Project # 11561.015

Job ID: 570-42384-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-42384-2	V23602-1-1.5	Solid	10/29/20 09:10	10/29/20 12:55	
570-42384-3	DB30001VB-1-1.5	Solid	10/29/20 07:50	10/29/20 12:55	
570-42384-4	DB3000VB-1-1.5	Solid	10/29/20 08:10	10/29/20 12:55	
570-42384-5	DB3000VB-1-1.5D	Solid	10/29/20 08:11	10/29/20 12:55	
570-42384-9	V327	Solid	10/29/20 08:55	10/29/20 12:55	
570-42384-10	V509-1-0.5	Solid	10/29/20 08:46	10/29/20 12:55	

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**Eurofins Calscience LLC**

7440 Lincoln Way  
Garden Grove, CA 92841  
Phone (714) 895-5494 Fax (714) 894-7501

**Chain of Custody Record**



570-42384 Chain of Custody



Environment Testing  
America

42384

<b>Client Information</b>		Sampler: Meredith Church & Kalie Duccini		Lab PM: Dang, Xuan		COC No: 570-18633-4685.1			
Client Contact: Accounts Payable		Phone: 949-293-2519		E-Mail: xuandang@eurofinsus.com		Page: 1 of 2			
Company: Leighton Consulting Inc		Due Date Requested:		<b>Analysis Requested</b>		Job #: 115610.015			
Address: 17781 Cowan Suite 200		TAT Requested (days): Normal TAT		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 8260B VOCs & Oxygenates, 5035/ 8260B <i>V.A.K. = A</i> 8015B_GRO C4-C12, 5035/8015B <i>Water = A</i> 8015B_TPH-CC Breakdown C6-C44 - No Silica Gel Surrog <i>Water = A</i> 6010B, 7470A, T22 metals + Extended list & Merck <i>Water = D</i> Pb-210 <i>subtracted</i> Po-210 <i>outside lab</i>		Preservation Codes:			
City: Irvine		PO #: 11561.015				A - HCL		M - Hexane	
State, Zip: CA, 92614		WO #:				B - NaOH		N - None	
Phone: 949-293-2519(Tel)		Project #: 57005662				C - Zn Acetate		O - AsNaO2	
Email: acctpayable@leightongroup.com		SSOW#:				D - Nitric Acid		P - Na2O4S	
Project Name: SoCal Gas, Project # 11561.015		Site: 12801 Tampa Avenue, Porter Ranch, CA		E - NaHSO4		Q - Na2SO3			
Do not dispose until authorized. Extra bottles of water provided & marked hold.		Sample Identification		Sample Date		Sample Time			
		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Total Number of containers			
		Preservation Code:		E/F		N			
1 TK130-M		10/29/20		10:25		Grab			
2 V23602-1-1.5		10/29/20		0910		Grab			
3 DB32601VB-1-1.5		10/29/20		0750		Grab			
4 DB3000VB-1-1.5		10/29/20		0810		Grab			
5 DB3000VB-1-1.5D		10/29/20		0811		Grab			
6 CT1106		10/29/20		1000		Grab			
7 CT817		10/29/20		0947		Grab			
8 CT824		10/29/20		0955		Grab			
9 V327		10/29/20		0855		Grab			
10 V509-1-0.5		10/29/20		0846		Grab			
11 EB-102920		10/29/20		1100		Grab			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements: J-Flag Results, Show TICs					
Deliverable Requested: I, II, III, IV, Other (specify) Level II (Standard)		Empty Kit Relinquished by: Meredith Church		Date: 10/29/20 12:55		Time: 10/29/20 12:55			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.8/20, 3.0/2.2, 2.8/20, 3.0/2.2, 3.0/2.2, 5.6		Method of Shipment:			

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**Eurofins Calscience LLC**

7440 Lincoln Way  
Garden Grove, CA 92841  
Phone (714) 895-5494 Fax (714) 894-7501

**Chain of Custody Record**

**eurofins** Environment Testing  
America

42384

<b>Client Information</b>		Sampler: Meredith Church & Kalie Duccini		Lab PM: Dang, Xuan		Carrier Tracking No(s):		COC No: 570-18633-4685.1			
Client Contact: Accounts Payable		Phone: 949-293-2519		E-Mail: xuandang@eurofinsus.com				Page: 2 of 2			
Company: Leighton Consulting Inc				<b>Analysis Requested</b>				Job #: 115610.015			
Address: 17781 Cowan Suite 200		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260B VOCs & Oxygenates, 5035f 8260B HCl 8015B_GRO C4-C12, 50358015B HCl 8015B_TPH-CC Breakdown C6-C44 - No Silica Gel Surrog 6010B, 7470A, T22 metals + Extended list & Mercury		Total Number of containers		Preservation Codes:			
City: Irvine		TAT Requested (days): Normal TAT						A - HCL		M - Hexane	
State, Zip: CA, 92614		PO #: 11561.015						B - NaOH		N - None	
Phone: 949-293-2519(Tel)		WO #:						C - Zn Acetate		O - AsNaO2	
Email: acctpayable@leightongroup.com		Project #: 57005662						D - Nitric Acid		P - Na2O4S	
Project Name: SoCal Gas, Project # 11561.015		SSOW#:		E - NaHSO4		Q - Na2SO3		R - Na2S2O3			
Site: 12801 Tampa Avenue, Porter Ranch, CA		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
Do not dispose of samples until Client authorization provided. Extra bottles of water submitted and Sample Identification marked "hold"		Preservation Code:		E/F		E/F		N			
12 TB1		10/29/20		1050		Grab		W			
13 TB2		10/29/20		1051		Grab		W			
14 TB3		10/29/20		1050		Grab		W			
15 TB4		10/29/20		1051		Grab		W			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)		Level II (Standard)		Special Instructions/QC Requirements: J-Flag Results, Show TICs							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: Meredith Church <i>[Signature]</i>		Date/Time: 10/29/20 12:55		Company: Leighton Consulting		Received by: <i>[Signature]</i>		Date/Time: 10/29/20 12:55			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							

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ORIGIN ID: APVA (714) 895-5494  
SAMPLE CONTROL  
CALSCIENCE ENVIRONMENTAL LAB  
7440 LINCOLN WAY

GARDEN GROVE, CA 92841  
UNITED STATES US

SHIP DATE: 02NOV20  
ACTWGT: 37.00 LB  
CAD: 1533735/NET4280

BILL SENDER

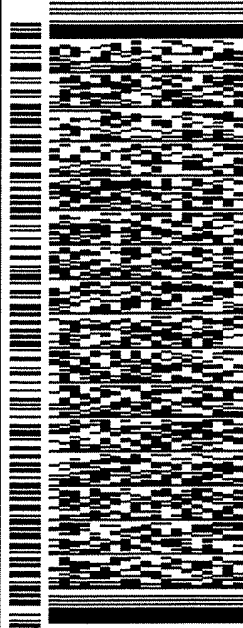
TO **SAMPLE RECEIVING**  
**EUOFINS TESTAMERICA**  
**13715 RIDER TRAIL NORTH**

**EARTH CITY MO 63045**

INV: (314) 298-8566 REF: X0142384

PO: DEPT:

56B3J51D81B766

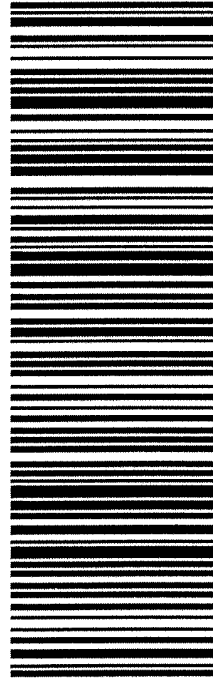


J2020200714011U

TUE - 03 NOV 10:30A  
PRIORITY OVERNIGHT

TRK# 7719 6548 0491  
0201

**XX ALNA**  
MO-US **STL**  
**63045**



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# Login Sample Receipt Checklist

Client: Leighton Consulting Inc

Job Number: 570-42384-2

**Login Number: 42384**  
**List Number: 1**  
**Creator: Patel, Jayesh**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Leighton Consulting Inc

Job Number: 570-42384-2

**Login Number: 42384**

**List Number: 2**

**Creator: Korrinhizer, Micha L**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 11/03/20 01:35 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Insufficient volume received for requested analyses.
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	