

# **Appendix I**

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## Soil Characterization Report



# CITADEL EHS

assess • resolve • strengthen

September 20, 2019

**OUR LADY OF MT. LEBANON – ST. PETER MARONITE CATHOLIC CATHEDRAL**

333 South San Vicente Boulevard  
Los Angeles, California 90048

C/O

Olivier Theard

**SHEPPARD, MULLIN, RICHTER & HAMPTON LLP**

333 South Hope Street, 43rd Floor  
Los Angeles, California 90071

**Re: CITADEL Project No. 1234.1003.0  
Soil Characterization Report  
333 S. San Vicente Boulevard  
Los Angeles, California 90048**

Dear Mr. Theard:

Citadel EHS (Citadel) is pleased to provide you with this Soil Characterization Report for the above-referenced location.

The Soil Characterization Sampling was conducted in general accordance with Citadel's Proposal 1234.1003.P, dated April 25, 2019, and a mutually agreed upon scope of work.

If, after your review, you have any questions or require additional information, please do not hesitate to telephone me at (818) 246-2707.

Sincerely,  
**CITADEL EHS**

**Mark Drollinger**

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Mark Drollinger, M. Eng., CSP, CHMM, EiT  
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Enclosure



# CITADEL EHS

assess • resolve • strengthen

**Our Lady of Mt. Lebanon – St. Peter Maronite Catholic Cathedral**

333 S. San Vicente Boulevard  
Los Angeles, California 90048

**Sheppard, Mullin, Richter & Hampton LLP**

333 South Hope Street, 43rd Floor  
Los Angeles, California 90071

## Soil Characterization Report

September 20, 2019

Citadel Project Number 1234.1003.0

333 South San Vicente Boulevard  
Los Angeles, California 90048

[www.CitadelEHS.com](http://www.CitadelEHS.com)



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## **1.0 INTRODUCTION**

### Summary and Purpose

Citadel EHS (Citadel) has prepared this Soil Characterization Report for Our Lady of Mt. Lebanon – St. Peter Maronite Catholic Cathedral (Client) in care of Sheppard, Mullin, Richter & Hampton LLP (Sheppard Mullin). The Client is redeveloping the Site and requested that Citadel perform a soil characterization investigation for the purpose of profiling soil to be excavated for disposal. As explained in this Report, soil results came back generally “clean” for total petroleum hydrocarbons (TPH), PCE, TCE and metals, with all results below commonly accepted Environmental Screening Levels or local background levels (e.g., below levels of regulatory concern), meaning that excavated soils can be disposed of as non-hazardous soil in a Class III landfill or clean fill site.

Utilizing the information generated in this investigation, a Soil Management Plan has been prepared for use during excavation activities as a guidance document to direct the excavation activities and to assist with soil disposal, as well as to ensure protection of workers from potential TCE and PCE soil vapor exposure during site redevelopment.

### Site Background

The project site is located at 333 S. San Vicente Boulevard in the City of Los Angeles, California (Site) and consists of four structures comprising the Our Lady of Mt. Lebanon – St. Peter Maronite Catholic Cathedral with an associated parking area and limited landscaping on approximately one acre of land. The general Site vicinity is comprised of multi-family residential structures with commercial and retail properties along S. San Vicente Boulevard and West 3<sup>rd</sup> Street. A Site Location Map is included as Figure 1.

Citadel understands that portions of the Site are to be redeveloped with a residential building and new church facilities. The redevelopment will include excavation for the construction of a subterranean parking structure. It is anticipated that excavated soil will be disposed of at an offsite landfill.

## **2.0 PREVIOUS INVESTIGATIONS**

To provide context for the soil characterization investigation results, Citadel provides a brief summary of prior investigations of soil vapor and groundwater at the Site. As set forth in a Phase I Environmental Site Assessment Report (Phase I ESA) dated June 28, 2017, prepared by Citadel, a dry cleaner was previously operated at 8550 West Third Street, approximately 257 feet northwest of the Site. Dry cleaners that operated at this property included Norge Village Cleaners between 1967 and 1969; Norge Village Cleaning Center between 1969 and 1978; Merry Go Round Cleaners between 1978 and 2006 and Perfect Cleaners since 2006. According to information provided by Geotracker (a reporting repository managed by the California Water Resources Control Board), the dry cleaner site is an open case with the Los Angeles Regional Water Quality Control Board (LARWQCB). Various investigations have taken place for the dry cleaner site and includes soil and groundwater assessment and remediation.

### Groundwater Investigations

The owner of the dry cleaner site was ordered to, and did, install several groundwater monitoring wells in the vicinity of their site. Two off-site groundwater monitoring wells are located in close proximity to the Site. Groundwater monitoring wells MW-13 and MW-14 are adjacent to the Site in Holt Street on the west and San Vicente Boulevard on the east, respectively. Groundwater was

encountered at approximately 17 feet below ground surface (bgs) in both wells during installation (Reynolds Group, 2012). Groundwater pump and treat has been conducted at the dry cleaner site from 2005 to present for the purpose of groundwater remediation and groundwater plume control.

Groundwater monitoring well MW-13 was last monitored in December 2018. Tetrachloroethylene (PCE) and trichloroethylene (TCE) were not detected above the laboratory detection limit in the upper groundwater zone and the lower groundwater zone had concentrations of 17.90 µg/L and 9.32 µg/L, respectively. Groundwater monitoring well MW-14 was last monitored in December 2013. PCE and TCE were detected in the upper zone at concentrations of 7.32 µg/L and 1.41 µg/L, respectively. These chemicals were not detected in the lower groundwater zone.

In the Phase I ESA, Citadel recommended a limited Phase II subsurface investigation to assess if the subsurface has been impacted by the contaminated groundwater. Citadel subsequently prepared a Limited Phase II Subsurface Investigation (Phase II ESA) dated March 9, 2018 for further analysis of potential groundwater contamination (as well as potential soil vapor contamination, as discussed below). As part of the Phase II ESA, on February 15, 2018, Citadel collected groundwater samples from three locations at the Site parking lot. Groundwater samples were collected from the first encountered groundwater which is equivalent to the upper groundwater zone referenced for the dry cleaner site. PCE, TCE, and cis-1,2-dichloroethylene (cis-1,2-DCE), were detected in one or more groundwater samples at maximum concentrations of 50.6 µg/L, 32.2 µg/L and 8.96 µg/L, respectively. All PCE detections in groundwater were above the maximum contaminant level (MCL) for drinking water. TCE and cis-1,2-DCE were reported above their respective MCLs in groundwater samples collected from GW2 and GW3. Other volatile organic compounds (VOCs) were reported below their regulatory thresholds.

### Soil Vapor Investigations

Soil vapor and groundwater remediation has been performed at the dry cleaner site from 2005 to present. Soil vapor extraction at the dry cleaner site operated between 2005 and 2014 and has resulted in the removal of approximately 2,000 pounds of volatile organic compounds from the subsurface soils, primarily PCE and TCE. Soil vapor extraction activities were suspended in 2014 due to low influent concentrations. Groundwater pump and treat activities continue to this date.

As part of the Phase II ESA, on February 15, 2018, Citadel collected soil vapor samples from three locations on the Site. PCE and TCE were detected in one or more soil vapor samples, and cis-1,2-DCE was not reported in any vapor samples above laboratory detection limits. PCE and TCE were detected in soil vapor samples above their respective San Francisco Bay Regional Water Quality Control Board's (SWBRWQCB) environmental screening levels (ESLs) for commercial/industrial use. Maximum concentrations observed for PCE and TCE were 651 µg/m<sup>3</sup> and 248 µg/m<sup>3</sup>, respectively. No other VOCs were detected in the soil vapor samples. The Phase II ESA, however, did not address potential soil contamination, which is the purpose of this report.

## **3.0 PRE-FIELD ACTIVITIES**

A boring permit was obtained from the Los Angeles County Department of Public Health. A copy of the permit application and boring permit is included in Appendix A. Prior to on-site activities, a site-specific health and safety plan (HASP) was prepared. This HASP identified existing and potential hazards for workers at the Site during drilling and soil and groundwater sample collection activities. A copy of the HASP is included in Appendix B.

To screen the Site for potential utilities, Citadel marked the proposed boring locations and contacted Underground Service Alert (USA) for marking public utilities on and adjacent to the Site.

On July 16, 2019, a geophysical utility survey was conducted by SubSurface Surveys & Associates, Inc. (SSS) under the supervision of a Citadel representative. The geophysical survey was conducted to locate and identify pipes, conduits, utilities, and other underground obstructions within a 10-foot radius of the proposed boring locations. The purpose of the contracted subsurface assessment was to identify potential anomalies not associated with known utility lines. A copy of the SSS Report is included in Appendix C.

## **4.0 SOIL SAMPLING**

On July 16, 17, and 18, 2019 Citadel supervised the advancement of six borings across the Site using a hollow stem auger drill rig operated by ABC Liovin Drilling, Inc. of Signal Hill, California. The borings were identified as Borings B1 through B6. Boring B1 was advanced in the parking lot near the western entry into the western church building. Boring B2 was advanced in the southwest corner of the parking lot. Boring B3 was advanced near the northwest corner of the parking lot. Boring B4 was advanced in the alleyway on the north side of the Site. Boring B5 was advanced near the handicapped parking spaces in the northeast corner of the Site. Boring B6 was advanced in front of the Cathedral's main entryway in the southeast corner of the Site. All borings were advanced to a depth of 60 feet bgs.

The soil borings were advanced using a hollow stem auger drill rig equipped with split spoon sampler. An automatic drop hammer was used to perform the Standard Penetration Test and the collection of soil samples at five feet intervals through the boring<sup>1</sup>. Samples, 72 in all, were collected from the six borings at depths of five, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55 and 60 feet bgs for description and laboratory analysis and stored in a cooler with ice. The soils samples were described under the supervision of a California Professional Geologist and field screened with a photoionization device (PID) for the presence of VOCs. No discolored or stained soil was encountered in any of the borings and only minor detections of VOCs with the PID were observed, with the exception of 7.735 ppm at 20 feet bgs in boring B1.

Excess soil removed from drilling was containerized in nineteen 55-gallon drums and decontamination water was contained in one 55-gallon drum. The drums were left on-site in the parking lot between July 18, 2019 and July 23, 2019 at which time the drums were transported off-site by Belshire Environmental Services, Inc. of Foothill Ranch, California. The nineteen 55-gallon drums of non-hazardous soil was disposed at U.S. Ecology of Beatty, Nevada. The one 55-gallon drum of decontamination water was disposed at Demenno Kerdoon of Compton, California. A copy of the waste manifests are included in Appendix D.

The soil samples were kept on ice overnight and picked up the next day by a courier for Eurofins Calscience Laboratories (Calscience) in Garden Grove, California under proper Chain-of-Custody (COC) protocols. Two samples from each boring were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015M and Title 22 metals using EPA Methods 6010B/7471A. The samples analyzed for TPH and Title 22 metals included samples from 20 and 40 feet bgs in B1; 35 and 45 feet bgs in B2, 30 and 60 feet bgs in B3; five and 25 feet bgs in B4; 15 and 55 feet bgs in B5; and 10 and 50 feet bgs in B6. Six samples from borings B1, B3, B4, B5 and B6 and five samples from boring B2 were analyzed for VOCs by EPA Method 8260. These include samples from depths of five, 15, 25, 35, 45 and 55 feet bgs in B1; five, 10, 20, 30 and 55 feet bgs in B2; 10, 20, 30, 40, 50 and 60 feet bgs in B3; five, 15, 25, 30, 40 and 50 feet bgs in B4; five, 15, 25, 30, 40, and 50 feet bgs

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<sup>1</sup> Six groundwater samples were also collected from each boring at first encountered groundwater. The samples were held by the laboratory pending the results of the soil sample laboratory results and were not analyzed due to the minimal VOC concentrations observed in soil samples.

in B4; 10, 20, 30, 40, 50 and 60 feet bgs in B5; and five, 15, 25, 35, 40, and 50 feet bgs in B6. The remaining samples were kept on hold at the laboratory pending analysis of this first round of samples.

At each boring, the soil appeared to be primarily clay and silt initially, becoming clay with fine sand at approximately 15 feet depth, and then interspersed with layers of gravelly clay and fine to coarse sand down to approximately 55 feet depth, at which time it became denser, silty clay. Groundwater was encountered at 23 feet bgs in B1, 28 feet bgs in B2, 29 feet bgs in B3 and B4, 33 feet bgs in B5, and 34 feet bgs in B6.

Citadel's boring logs are included as Appendix E and field notes describing onsite activities are included as Appendix F.

## **5.0 FINDINGS**

The laboratory results were compared to the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs). The SFBRWQCB ESL's are contaminant screening levels for each media that address human health concerns associated with exposure to each contaminant. The ESLs were selected as generic screening levels because they represent the most conservative values for residential and commercial occupancies. For the purposes of this report, the ESLs for residential sites were used as regulatory limits for comparison to the sample analytical results.

### Total Petroleum Hydrocarbons

No TPH in the gasoline (TPHg), diesel (TPHd), or motor oil (TPHo) ranges were reported above the laboratory practical quantitation limit (PQL) reporting limit for any of the samples analyzed from each boring, except for TPHo in B3 at 60 feet with 6.9 milligrams per kilogram (mg/kg). The laboratory also reported total TPH (C6-C44) in all samples and boring B3 had detections at 30 feet and 60 feet bgs of 8.4 mg/kg and 14 mg/kg, respectively.

The detections of TPH are summarized in Table 1 and were compared to the ESLs. The TPHo concentration of 6.9 mg/kg in B3 from 60 feet bgs, was well below the ESL of 11,000 mg/kg for TPHo.

### Volatile Organic Compounds

PCE and TCE were detected above laboratory reporting limits in one sample, boring B4 at 25 feet bgs. PCE was reported at 0.064 mg/kg and TCE was reported at 0.018 mg/kg. All other VOCs were not detected.

The detections of VOCs are summarized in Table 1 and were compared to the ESLs. The detections of PCE and TCE of 0.064 mg/kg and 0.018 mg/kg, respectively, in B4 at 25 feet bgs were below the ESLs for PCE and TCE of 0.59 mg/kg and 0.95 mg/kg, respectively.

### Title 22 Metals

California Title 22 Hazardous metals were detected above laboratory regulatory limits in each of the borings. No metals exceeded both the accepted metals background levels, as set for Southern California by the DTSC, or the total threshold limit concentration (TTLc).

The detections of Title 22 metals in Table 2 were also compared to the residential ESLs. The detections of arsenic or the PQL for arsenic all exceeded the ESL of 0.067 mg/kg for residential soil. The results were also compared to the Southern California arsenic background level of 12 milligram per kilogram (mg/kg) (DTSC), which the DTSC recognizes as the screening level for Southern California. Two samples exceeded the background level, sample B1 at 20 and 40 feet bgs with concentrations of 25.0 mg/kg and 28.9 mg/kg, respectively. The arsenic results were also compared to the TLC limit for classification as hazardous waste and the Soluble Threshold Limit Concentration (STLC) trigger concentration. The detected concentrations were below the TLC limit of 500 mg/kg and the STLC trigger concentration of 50 mg/kg and therefore the soil can be treated as non-hazardous soil for disposal.

Based on the low to non-detect concentrations observed in the soil samples that were analyzed, the remaining 37 soil samples and the six groundwater samples that were kept on hold at the laboratory were not analyzed.

Copies of the complete laboratory reports are included as Appendix G. VOCs and TPH in soil along with their corresponding ESL are summarized in Table 1, and Title 22 Metals in soil and their corresponding ESL and TLC are summarized in Table 2. A photo log of Site activities is included in Appendix H.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

The current investigation was conducted for the purpose of profiling the soil for disposal and to determine if historic operations on nearby properties have impacted the soil in the subsurface.

Citadel collected 72 soil samples from six borings across the Site. Two samples from each boring were chosen to be analyzed for TPH and Title 22 Metals and 35 samples were chosen to be analyzed for VOCs.

The results from the soil sampling were as follows:

- TPHg, TPHd and TPHo were not detected above laboratory reporting limits in any of the samples, with the exception of TPHo in B3 at 60 feet bgs at 6.9 mg/kg, which is well below the ESL for TPHo.
- No VOCs were detected above laboratory reporting limits in 34 of the 35 samples analyzed. In boring B4 at 25 feet bgs, at the vadose zone, PCE and TCE were detected above the laboratory reporting limits but below the ESLs for soil at residential properties. No VOCs were detected above the laboratory reporting limits in any of the other sample depths analyzed.
- No Title 22 Metals were detected above the TLC limits or the STLC trigger concentrations in any of the twelve analyzed samples.
- Arsenic exceeded the Southern California background concentration in both samples analyzed from boring B1, but were below the TLC limits and STLC trigger concentrations and therefore is non-hazardous.
- Since no TPH or VOC concentrations were reported above the ESLs, the remaining soil samples were not analyzed for TPH and VOCs.

The results indicate generally clean soil on the Site that can be disposed of at a Class III Landfill. Based on these results, Citadel has prepared a Soil Management Plan for use during excavation activities as a guidance document for use in directing excavation activities, to assist with soil disposal, and to ensure worker protection against potential soil vapor exposure.

## **7.0 REFERENCES CITED**

California Department of Water Resources, 1961. Planned Utilization of the Ground Water Basins of the Coastal Plan of Los Angeles County, Bulletin No. 104, Appendix A, Ground Water Geology. June.

Citadel Environmental Services, Inc., 2018. Limited Phase II Subsurface Investigation Report, 333 South San Vicente Boulevard Los Angeles, California 90048, May 9.

EnviroMonitoring Services, Inc., 2015. Groundwater Monitoring Report, Fourth Quarter 2014, Perfect Cleaners Facility, Former Merry Go Round Dry Cleaners, 8550 West Third Street, Los Angeles California, RWQCB Site ID No. 18468, January 8, 2015.

EnviroMonitoring Services, Inc., 2018. Groundwater Monitoring Report, Second Semester 2017, Perfect Cleaners Facility, Former Merry Go Round Dry Cleaners, 8550 West Third Street, Los Angeles California, RWQCB Site ID No. 18468, January 16, 2018.

The Reynolds Group, 2012. Site Conceptual Model, Former Merry Go Round Dry Cleaners, 8550 W. Third Street, Los Angeles, California. April 13, 2012.

United States Geological Survey, Hollywood and Beverly Hills Quadrangles, CA 7.5-minute topographic map, scale 1:24000, 2018.

## **8.0 LIMITATIONS**

This Phase II Site Investigation was performed in accordance with generally and currently accepted engineering practices and principles. Although the data in this report is indicative of subsurface conditions in areas investigated, no further conclusions regarding the absence or presence of subsurface contamination at the site should be construed or inferred other than those expressly stated in this report. The conclusions made are based on information obtained from field observations, and from relevant Federal, State, regional, and local agencies.

## 9.0 SIGNATURES

Report Prepared by:

**Megan  
Roughan**

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Megan Roughan  
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Reviewed by

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Pendergrass**

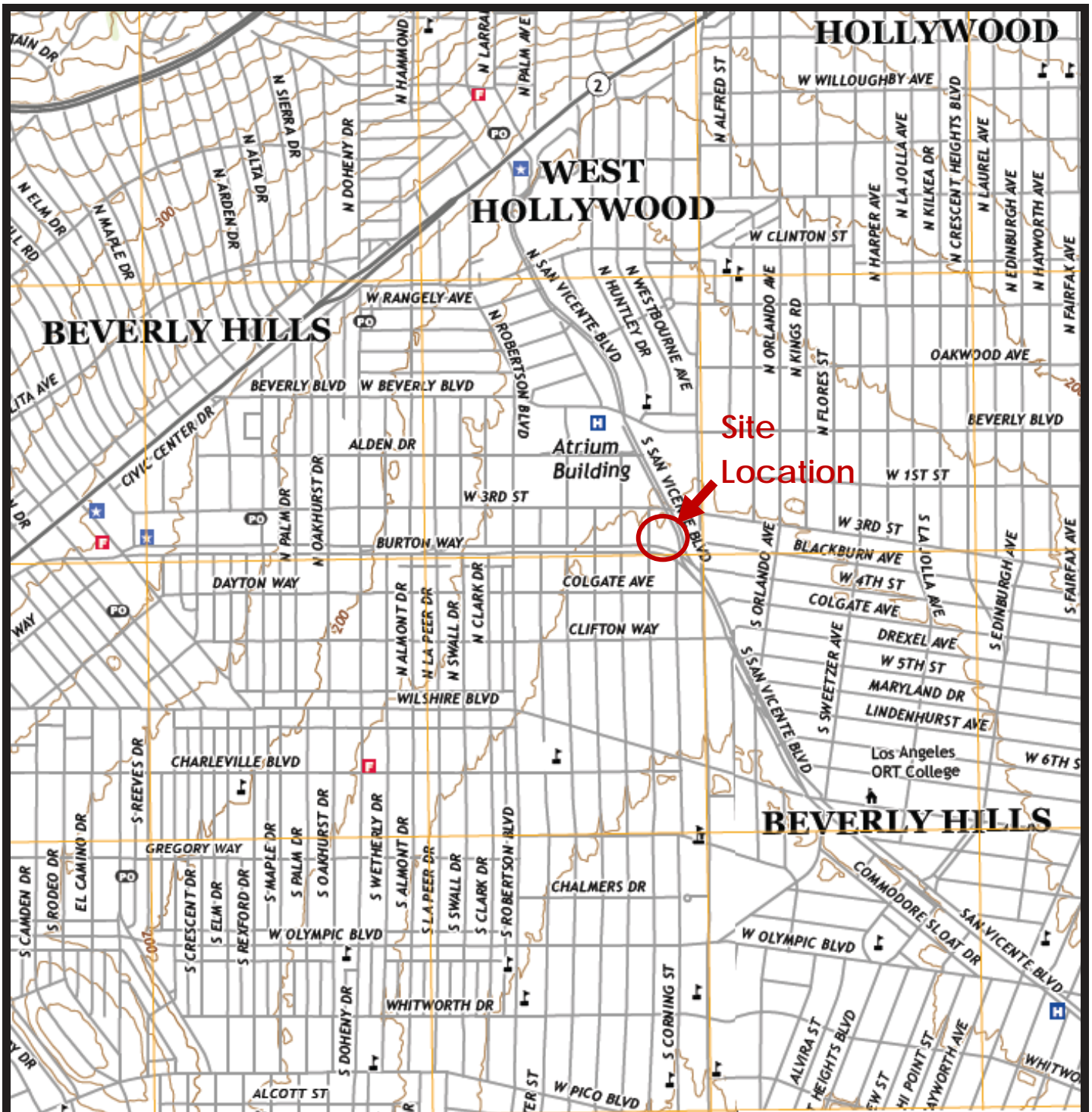
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T. Michael Pendergrass, PG  
Senior Project Geologist, Engineering and Environmental Sciences



# Figures





Source: USGS, Hollywood and Beverly Hills Quadrangles, 2018, 7.5 Minute Series

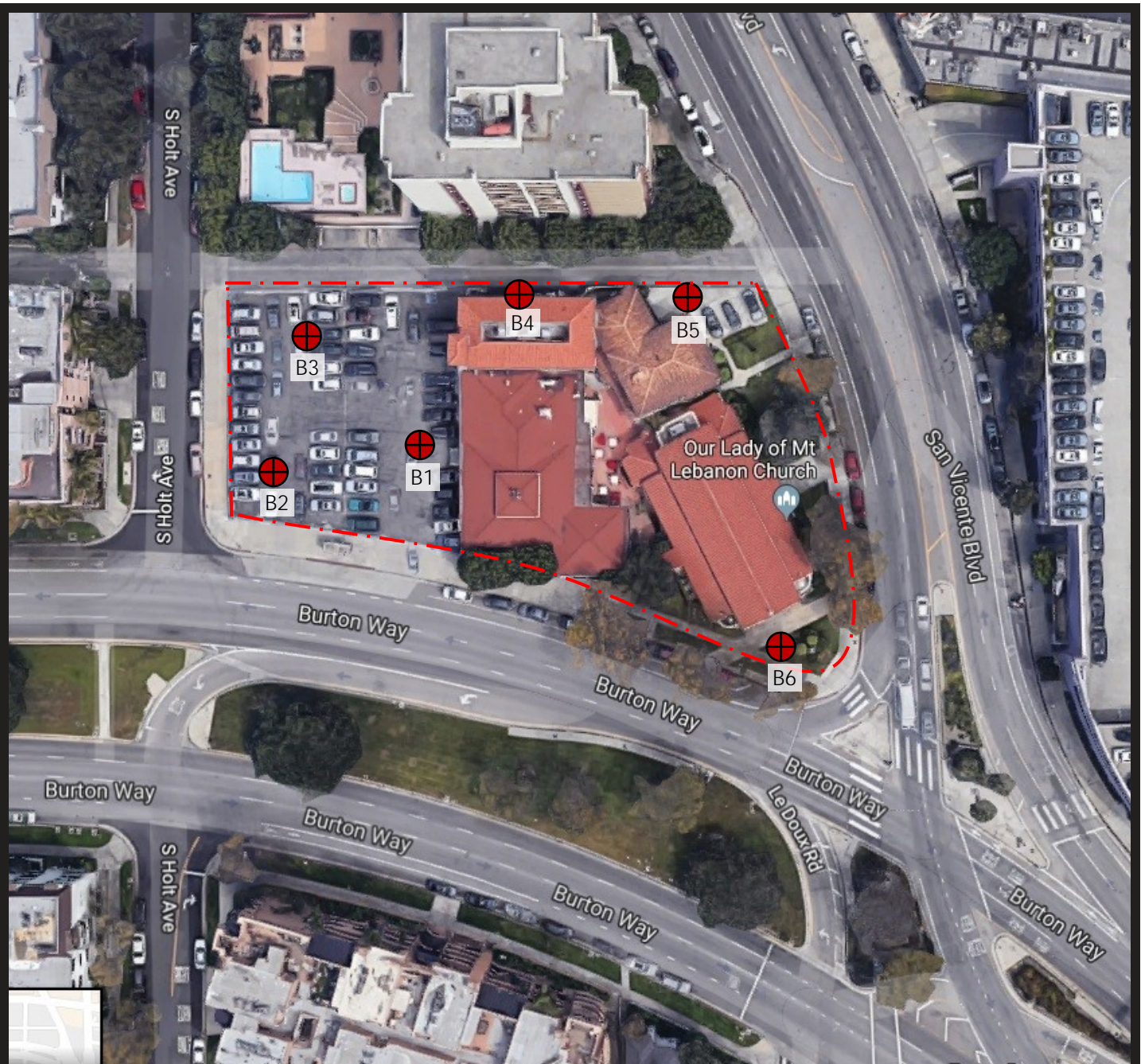


**Figure 1**  
**Site Location Map**  
 Our Lady of Mt. Lebanon – St. Peter  
 Maronite Catholic Cathedral  
 333 South San Vicente Boulevard  
 Los Angeles, California 90048

Source:  
 USGS Hollywood and Beverly Hills, CA 7.5  
 Minute Topographic Maps (2018)

**Site Location Map**





SITE BOUNDARIES



SOIL BORING LOCATIONS



Not to Scale

Source: Google Maps



**SHEPPARD, MULLIN, RICHTER, & HAMPTON, LLP**  
 Our Lady of Mt. Lebanon – St. Peter Maronite Catholic Cathedral  
 333 South San Vicente Boulevard  
 Los Angeles, California 90048

Figure 2

PROJECT NO.: 1234.1003.0

DATE: SEPTEMBER 2019

**Site Map**

# Tables

**Table 1. Volatile Organic Compounds and Total Petroleum Hydrocarbons in Soil**  
**333 South San Vicente Boulevard**  
**Los Angeles, California 90048**

Boring	Sample Depth (feet)	Date Sampled	Total Petroleum Hydrocarbon				Volatile Organic Compounds					Comment
			EPA Method 8015M				EPA Method 8260B					
			Gasoline C6-C12	Diesel C13-C22	Motor Oil C23-C32	Total TPH C6-C44	Acetone	Chloro-form	Cis-1,2-Dichloro-ethene	Tetra-chloro-ethene	Trichloro-ethene	
mg/kg (milligram per kilogram)												
B1	5	7/16/2019	--	--	--	--	<0.120	<0.0049	<0.0049	<0.0049	<0.0049	
	15		--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	20		<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	
	25		--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	35		--	--	--	--	<0.120	<0.0049	<0.0049	<0.0049	<0.0049	
	40		<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	
	45		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
B2	5	7/16/2019	--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	10		--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	20		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	30		--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	35		<4.9	<4.9	<4.9	<4.9	--	--	--	--	--	
	45		<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	
	55		--	--	--	--	<0.120	<0.0049	<0.0049	<0.0049	<0.0049	
B3	10	7/17/2019	--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	20		--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	30		<5.1	<5.1	<5.1	<b>8.4</b>	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	40		--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	50		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	60		<4.9	<4.9	<b>6.9</b>	<b>14</b>	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
B4	5	7/17/2019	<5.0	<5.0	<5.0	<5.0	<0.120	<0.0049	<0.0049	<0.0049	<0.0049	
	15		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	25		<4.9	<4.9	<4.9	<4.9	<0.120	<0.0049	<0.0049	<b>0.064</b>	<b>0.018</b>	
	30		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	40		--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	50		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
B5	10	7/18/2019	--	--	--	--	<0.120	<0.0051	<0.0051	<0.0051	<0.0051	
	15		<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	
	20		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	30		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	40		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	50		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	55		<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	
B6	5	7/18/2019	--	--	--	--	<0.120	<0.0049	<0.0049	<0.0049	<0.0049	
	10		<4.9	<4.9	<4.9	<4.9	--	--	--	--	--	
	15		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	25		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	35		--	--	--	--	<0.120	<0.0052	<0.0052	<0.0052	<0.0052	
	40		--	--	--	--	<0.120	<0.0050	<0.0050	<0.0050	<0.0050	
	50		<5.0	<5.0	<5.0	<5.0	<0.120	<0.0048	<0.0048	<0.0048	<0.0048	
ESL - Residential Soil			740	230	11,000	--	61,000	0.32	19	0.59	0.95	

**Notes:**

All other volatile organic compounds not detected above the Practical Quantitation Limit (PQL)

< = Analyte not detected at or above reporting limit.

-- = Not Analyzed / No regulatory criterion

Detected concentrations are shown in bold type

MTBE = Methyl-tert-butyl-ether

ESL = Environmental Screening Levels (SFBRWQCB, 2019)



Table 2. Hazardous Metals in Soil  
 333 South San Vicente Boulevard  
 Los Angeles, California 90048

Boring/ Sample ID	Sample Depth (Feet)	Date Sampled	Title 22 Metals (EPA Method 6010B, except for Mercury [EPA Method 7471])																	Comment
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
			milligrams per kilogram (mg/kg)																	
B1	20	7/16/2019	<0.735	<b>25.0</b>	<b>69.0</b>	<b>0.579</b>	<b>1.45</b>	<b>19.9</b>	<b>6.36</b>	<b>13.9</b>	<b>1.45</b>	<0.0806	<0.245	<b>15.3</b>	<0.735	<0.245	<0.735	<b>37.7</b>	<b>31.3</b>	
	40		<0.758	<b>28.9</b>	<b>110</b>	<b>1.05</b>	<b>0.579</b>	<b>35.9</b>	<b>10.8</b>	<b>19.2</b>	<b>1.69</b>	<0.0862	<0.253	<b>22.3</b>	<0.758	<0.253	<0.758	<b>86.4</b>	<b>58.8</b>	
B2	35	7/16/2019	<0.761	<b>7.60</b>	<b>70.9</b>	<b>0.546</b>	<0.508	<b>26.3</b>	<b>5.54</b>	<b>13.5</b>	<b>0.999</b>	<0.0862	<0.254	<b>14.5</b>	<0.761	<0.254	<0.761	<b>36.5</b>	<b>36.3</b>	
	45		<0.746	<b>8.66</b>	<b>38.7</b>	<b>0.320</b>	<0.498	<b>16.3</b>	<b>2.76</b>	<b>7.83</b>	<b>1.03</b>	<0.0820	<0.249	<b>8.32</b>	<0.746	<0.249	<0.746	<b>20.4</b>	<b>18.7</b>	
B3	30	7/17/2019	<0.769	<0.769	<b>128</b>	<b>1.07</b>	<b>1.78</b>	<b>37.9</b>	<b>10.6</b>	<b>30.1</b>	<b>0.973</b>	<0.0862	<0.256	<b>30.3</b>	<b>0.798</b>	<0.256	<0.769	<b>75.1</b>	<b>75.3</b>	
	60		<b>0.808</b>	<0.746	<b>135</b>	<b>1.01</b>	<0.498	<b>45.3</b>	<b>13.8</b>	<b>28.5</b>	<0.498	<0.0806	<0.249	<b>23.0</b>	<0.746	<0.249	<0.746	<b>68.9</b>	<b>73.6</b>	
B4	5	7/17/2019	<0.735	<b>5.48</b>	<b>114</b>	<b>0.742</b>	<b>2.05</b>	<b>22.4</b>	<b>6.98</b>	<b>12.5</b>	<b>1.50</b>	<0.0794	<0.245	<b>13.0</b>	<0.735	<0.245	<0.735	<b>34.4</b>	<b>28.2</b>	
	25		<0.728	<b>4.60</b>	<b>125</b>	<b>1.14</b>	<b>3.57</b>	<b>39.9</b>	<b>12.0</b>	<b>32.1</b>	<b>3.27</b>	<0.0833	<b>0.702</b>	<b>32.3</b>	<b>1.14</b>	<0.243	<0.728	<b>66.8</b>	<b>72.1</b>	
B5	15	7/18/2019	<0.769	<b>10.7</b>	<b>104</b>	<b>1.15</b>	<b>3.16</b>	<b>39.0</b>	<b>9.16</b>	<b>24.7</b>	<b>1.74</b>	<0.0833	<0.256	<b>25.4</b>	<0.769	<0.256	<0.769	<b>60.1</b>	<b>55.3</b>	
	55		<0.725	<b>3.91</b>	<b>124</b>	<b>0.928</b>	<b>2.84</b>	<b>34.6</b>	<b>9.55</b>	<b>15.3</b>	<b>1.13</b>	<0.0806	<0.242	<b>16.5</b>	<0.725	<0.242	<0.725	<b>58.1</b>	<b>42.9</b>	
B6	10	7/18/2019	<0.777	<b>3.89</b>	<b>70.6</b>	<b>0.578</b>	<b>1.59</b>	<b>24.9</b>	<b>7.70</b>	<b>10.1</b>	<0.518	<0.0847	<0.259	<b>12.5</b>	<b>1.16</b>	<0.259	<0.777	<b>40.4</b>	<b>31.1</b>	
	50		<0.718	<b>10.5</b>	<b>125</b>	<b>0.987</b>	<b>3.13</b>	<b>36.1</b>	<b>8.88</b>	<b>19.7</b>	<b>2.15</b>	<0.0794	<0.239	<b>16.9</b>	<0.718	<0.239	<0.718	<b>55.0</b>	<b>39.3</b>	
ESL - Residential Soil			11	0.067	15,000	16	78	--	23	3,100	80	13	390	820	390	390	0.78	390	23,000	
TTLC			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000	

**Notes:**

- < = Analyte not detected at or above reporting limit
- = Not analyzed / No regulatory criterion
- Detected concentrations are shown in bold type
- ESL = Environmental Screening Levels (SFBWQCB, 2019)
- TTLC = Total Threshold Limit Concentration
- \* Southern California arsenic background level is 12 mg/kg (DTSC)

# Appendix A

## Soil Boring Permit



# ENVIRONMENTAL HEALTH

## Drinking Water Program



5050 Commerce Drive, Baldwin Park, CA 91706

Telephone: (626) 430-5420 • Facsimile: (626) 813-3013 • Email: [waterquality@ph.lacounty.gov](mailto:waterquality@ph.lacounty.gov)

[http://publichealth.lacounty.gov/eh/ep/dw/dw\\_main.htm](http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm)

**SR0188902**

**333 South San Vicente Boulevard, Los Angeles, CA 90048**

**Work Plan Approval**

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS FOR WELL PERMIT APPROVAL
333 South San Vicente Boulevard	Los Angeles	90048	<a href="mailto:areed@citadelenvironmental.com">areed@citadelenvironmental.com</a>

**NOTICE:**

- WORK PLAN APPROVALS ARE VALID FOR 180 DAYS. 30 DAY EXTENSIONS OF WORK PLAN APPROVALS ARE CONSIDERED ON AN INDIVIDUAL (CASE-BY-CASE) BASIS AND MAY BE SUBJECT TO ADDITIONAL PLAN REVIEW FEES (HOURLY RATE AS APPLICABLE).
- WORK PLAN MODIFICATIONS MAY BE REQUIRED IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED AT THE SITE INSPECTION ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- WORK PLAN APPROVALS ARE LIMITED TO COMPLIANCE WITH THE CALIFORNIA WELL STANDARDS AND THE LOS ANGELES COUNTY CODE AND DOES NOT GRANT ANY RIGHTS TO CONSTRUCT, RENOVATE, OR DECOMMISSION ANY WELL. THE APPLICANT IS RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS SUCH AS WATER RIGHTS, PROPERTY RIGHTS, COASTAL COMMISSION APPROVALS, USE COVENANTS, ENCROACHMENT PERMISSIONS, UTILITY LINE SETBACKS, CITY/COUNTY PUBLIC WORKS RIGHTS OF WAY, ETC.
- THIS PERMIT IS NOT COMPLETE UNTIL ALL OF THE FOLLOWING REQUIREMENTS ARE SIGNED BY THE DEPUTY HEALTH OFFICER. WORK SHALL NOT BE INITIATED WITHOUT A WORK PLAN APPROVAL STAMPED BY THE DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM.
- **ONCE APPROVED NOTIFY INSPECTOR AT [ytaye@ph.lacounty.gov](mailto:ytaye@ph.lacounty.gov) PREFERABLY 3 BUSINESS DAYS BEFORE WORK IS SCHEDULED TO BEGIN.**

**WORK PLAN APPROVED (6 soil borings)**

**DATE: July 5, 2019**

**ADDITIONAL APPROVAL CONDITIONS:**

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- Ensure to backfill using a tremie pipe or equivalent, proceeding upward from the bottom of the boring.
- Sealing material must be mixed in accordance with the [California Well Standards \(Bulletins 74-81 and 74-90\)](#).
  - Cement grout mix ratio of 5-6 gallons of water per 94-pound bag of Portland cement.
  - Up to 6% of Bentonite may be added to the cement-based mix. The water demand of bentonite shall be taken into account when water is added to the mix.
  - Bentonite alone shall not be used as a sealing material.
- Exploration holes must comply with all applicable requirements published in the [California Well Standards \(Bulletins 74-81 and 74-90\)](#) and [Los Angeles County Code](#).



REHS NO. 7115

*Yonas Taye*

Yonas Taye, REHS

ANNULAR SEAL FINAL INSPECTION REQUIRED

WELL COMPLETION LOG REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

WATER QUALITY—BACTERIOLOGICAL STANDARDS REQUIRED

WATER QUALITY—CHEMICAL STANDARDS REQUIRED

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

WATER SUPPLY YIELD REQUIRED

OTHER REQUIREMENT

DATE ACCEPTED: REHS signature

DATE ACCEPTED: REHS signature

# Appendix B

## Health and Safety Plan





**CITADEL EHS**

assess resolve strengthen

**Our Lady of Mt. Lebanon – St. Peter Maronite Catholic Cathedral**  
333 South San Vicente Boulevard  
Los Angeles, California 90048

**Sheppard, Mullin, Richter & Hampton, LLP**  
333 South Hope Street, Forty-Third Floor  
Los Angeles, California 90071

## **Health and Safety Plan**

July 11, 2019

Citadel Project Number 1234.1003.0

333 South San Vicente Boulevard  
Los Angeles, California 90048

**[www.CitadelEHS.com](http://www.CitadelEHS.com)**

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## **1.0 SITE DESCRIPTION**

Citadel EHS (Citadel) has prepared this Health and Safety Plan (HASP) for use during environmental consulting services to be conducted at the property located at 333 South San Vicente Boulevard in the City of Los Angeles, California (Site). Activities conducted under Citadel's direction at the Site will be in compliance with applicable Occupational Safety and Health Administration (OSHA) regulations, particularly those in Title 8 California Code of Regulations (CCR) 5192, and other applicable federal, state, and local laws, regulations, and statutes. A copy of this HASP will be kept onsite during scheduled field activities.

## **2.0 BACKGROUND**

According to a Phase I Environmental Site Assessment (Phase I ESA) by Citadel in 2017, the Former Merry Go Round Cleaners, located at 8550 West Third Street, approximately 257 feet northwest of the Site, is identified as a Cleanup Program Site (CPS). Drycleaners that operated at this property included Norge Village Cleaners between 1967 and 1969; Norge Village Cleaning Center between 1969 and 1978; and Merry Go Round Cleaners between 1978 and 2006. This facility has been occupied by Perfect Cleaners since 2006. According to information provided by Geotracker (a reporting repository managed by the California Water Resources Control Board), two off-site monitoring wells for Perfect Cleaners are located on South Holt Avenue and South San Vicente Boulevard. The monitoring well on South Holt Avenue, MW-13, is approximately 40 feet west of the Site. The monitoring well on South San Vicente Boulevard, MW-14, is approximately 18 feet east of the Site.

In a Phase I Environmental Site Assessment, Citadel recommended performing a Limited Phase II Subsurface Investigation to assess if the subsurface had been impacted by potentially contaminated groundwater.

Citadel collected soil vapor and groundwater samples from three locations across the Site parking lot on February 15, 2018. Based on that sampling event, tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-1,2-DCE), were each detected in two or more groundwater samples. All PCE detections in groundwater were above the maximum contaminant level (MCL) for drinking water. TCE and cis-1,2-DCE were reported above their respective MCLs in groundwater samples collected from GW2 and GW3. Other volatile organic compounds (VOCs) were reported below their regulatory thresholds.

PCE and TCE were each detected in two or more soil vapor samples, cis-1,2-DCE was not reported in any vapor samples above laboratory detection limits. PCE and TCE were not detected above their respective environmental screening levels (ESLs) for commercial/industrial use. However, PCE was detected above its respective ESL for residential use in soil vapor probe SV3-8 and TCE was detected above its respective ESL for residential use in soil vapor probe SV2-8. No other VOCs were detected in the soil vapor samples.

## **3.0 SAFETY POLICY**

Safety will be given primary importance in the planning and operation of this project. It is the policy of Citadel to conform to current OSHA standards in construction and local government agency requirements having authority over the project as regards to Citadel employees and public safety.

Each subcontracting firm will assume primary responsibility for the safety of their own work in regard to their employees and other persons. Subcontractors will assume the duty to comply with OSHA, and all other federal, state and local regulations.

The subcontractors work will be monitored by Citadel project managers for implementation of the Citadel HASP, while adhering to their own safety program. Citadel will retain the authority and power to enforce this HASP during the progress of the work. Any deficiencies in safe work practices will be brought to the attention of the subcontractor firm's supervisor for immediate corrective action. If the subcontractor fails or refuses to take corrective action promptly a stop work order shall be issued and the subcontractor or the subcontractor employee may be removed from the project.

## **4.0 WORK DESCRIPTION**

### **Soil Sampling, Permitting and Waste Disposal**

The Site is approximately 42,500 square feet (SF) in area. To characterize the Site for soil disposal, Citadel will advance six soil borings at the Site to depths of approximately 60 feet. Results from the Site characterization will be used to determine construction costs related to soil disposal, and groundwater dewatering, soil management requirements to be protective of environmental health, and potential Site closure options.

Citadel will mark the proposed boring locations and contact Underground Service Alert (USA) for marking off utilities on the sidewalk adjacent to the Site. A geophysical utility locating company will assess the proposed boring locations for buried utilities.

For this investigation, Citadel will advance six borings across the Site, three in the parking lot on the west end of the Site, and three surrounding the current structures on the east end of the Site. Soil borings will be advanced with a hollow stem drill rig. A permit for the borings will be obtained from the Los Angeles County Department of Environmental Health, Drinking Water Program. Please see the attached Figure 1 for the proposed boring locations.

Citadel will collect soil samples at five-foot intervals in each boring for a total of approximately 72 soil samples. All borings will be logged by, or under the supervision of, a California Professional Geologist, and soil samples collected from each boring will be field screened with a photoionization detector (PID) or equivalent monitoring device to evaluate the vapor space for the presence of VOCs. A grab groundwater sample will also be collected from each boring using a disposable bailer.

Seventy-two soil samples will be submitted to the laboratory for analysis. Thirty-six soil samples, six from each boring, will be analyzed for VOCs by EPA Method 8260B, twelve soil samples, two from each boring, will be analyzed for Total Petroleum Hydrocarbons (TPH) using EPA Method 8015M and twelve soil samples, two from each boring, will be analyzed for Title 22 metals using EPA Method 6010B/7471A. The remaining 36 soil samples will be placed on hold pending results of the selected soil samples. The groundwater samples will be held by the laboratory pending the results of the soil analysis.

Soil generated during the advancement of the borings will be collected and placed in 55-gallon Department of Transportation (DOT) rated drums for off-site for disposal. The drums will be staged at the Site pending the completion of soil profiling and then transported offsite for disposal as nonhazardous soil.

## **5.0 KEY PROJECT PERSONNEL AND RESPONSIBILITIES**

Project Manager	Mike Pendergrass (Citadel)
Site Safety Officer (SSO)/Project Monitor	Megan Roughan
Subcontractor Personnel	ABC Liovin Drilling Subsurface Surveys

### **PROJECT MANAGER**

The Project Manager has the ultimate responsibility for the health and safety of personnel at the Site. The Project Manager is responsible for:

- Ensuring that project personnel review and understand the requirements of this HASP;
- Keeping on-site personnel informed of the expected hazards and appropriate protective measures at the Site; and
- Providing resources necessary for maintaining a safe and health work environment.

### **SITE SAFETY OFFICER/PROJECT MONITOR**

The SSO is responsible for enforcing the requirements of this HASP once site work begins. The SSO has the authority to immediately correct situations where noncompliance with this HASP is noted and to immediately stop work in cases where an immediate danger to site workers or the environment is perceived. Responsibilities of the SSO also include:

- Obtaining and distributing PPE and air monitoring equipment necessary for this project;
- Limiting access at the Site to authorized personnel;
- Communicating unusual or unforeseen conditions at the Site to the Project Manager;
- Supervising and monitoring the safety performance of site personnel to evaluate the effectiveness of health and safety procedures and correct deficiencies;
- Conducting daily tailgate safety meetings before each day's activities begin; and
- Conducting a site safety inspection prior to the commencement of each day's field activities.

### **SUBCONTRACTOR PERSONNEL**

Subcontractor personnel are expected to comply with the minimum requirements specified in this HASP. Failure to do so may result in the dismissal of the subcontractor or any of the subcontractor's workers from the job site. Subcontractors may employ health and safety procedures that afford them a greater measure of personal protection than those specified in this plan as long as they do not pose additional hazards to themselves, the environment, or others working in the area.

## **6.0 SITE CONTROL MEASURES**

The SSO or Project Manager has been designated to coordinate access and security on site.

## **7.0 STANDARD OPERATING PROCEDURES**

### **GENERAL SAFETY**

- Maintain good housekeeping at all times in all project work areas.
- Check the work area to determine what problems or hazards may exist.
- Designate specific areas for the proper storage of materials.
- Store tools, equipment, materials, and supplies in an orderly manner.
- Provide containers for collecting trash and other debris.

- Clean up all spills quickly.
- Report unsafe conditions or unsafe acts to your supervisor immediately.
- Report all occupational illnesses, injuries, and vehicle accidents.
- Do not wear loose clothing, wristwatches, and other loose accessories when within arm's reach of moving machinery.
- Emergency exits and evacuation areas should be clearly marked during work activities.
- Personnel fall protection is required when climbing to perform maintenance six feet or higher above ground.
- Inspect hand tools and use proper PPE.
- Ensure proper grounding and guarding of equipment.
- Keep hands and fingers out of pinch points.
- Use good ergonomic posturing when working with heavy items.

**HAZARD EVALUATION**

The following substances are known or suspected to be on site. The primary hazards of each are identified as follow:

<u>Substances</u>	<u>Concentration</u>	<u>Primary Hazards</u>
Volatile Organic Compounds	Various	Ingestion, inhalation, skin

**COMMUNICATION PROCEDURES**

Due to the close proximity of all field crew members, the necessity for radio communication is not necessary.

The following standard hand signals will be used:

Hand drawn across throat .....	Cease operation immediately
Hand gripping throat.....	Out of air, can't breathe
Grip partner's wrist or both hands around waist.....	Leave area immediately
Hands on top of head.....	Need assistance
Thumbs up.....	OK, I am alright, understood
Thumbs down.....	No, negative

**FIELD VEHICLES**

- Equip vehicles with emergency supplies and equipment.
- Maintain both a first aid kit and fire extinguisher in the field vehicle at all times.
- Utilize a rotary beacon on vehicle if working adjacent to active roadway.
- Always wear seatbelt while operating vehicle.
- Tie down loose items.

**MANUAL LIFTING**

- Personnel shall seek assistance when performing manual lifting tasks that appear beyond their physical capabilities.
- Assess the situation before lifting, ensure good lifting and body positioning practices, and ensure good carrying and setting down practices.

**HEAT EXPOSURE**

- Limit exposure to the sun or take extra precautions when the UV index rating is high.
- Take lunch and breaks in shaded areas.

- Create shade by using umbrellas, tents, and canopies.
- Wear proper clothing: long sleeved shirts with collars, long pants, and UV-protective sunglasses or safety glasses.
- Apply sunscreen generously to all exposed skin surfaces at least 20 minutes before exposure. Re-apply sunscreen at least every 2 hours, and more frequently when sweating or performing activities where sunscreen may be wiped off.
- Communicate any concerns regarding heat stress to a supervisor.
- Keep hydrated throughout the day (about 4 cups per hour).
- OSHA's Heat Index:

Heat Index	Risk Level	Protective Measures
Less than 91°F	Lower (Caution)	Basic heat safety and planning
91°F to 103°F	Moderate	Implement precautions and heighten awareness
103°F to 115°F	High	Additional precautions to protect workers
Greater than 115°F	Very High to Extreme	Triggers even more aggressive protective measures

**Utilities (Under Ground and Above Ground):** Medium Hazard. Utilities will have been contacted through DigAlert to mark and locate underground structures. A geophysical investigation will clear all boring locations.

**Biological Hazards:** Low to Medium Hazard. Beware of spiders, insects and other possible animals.

**Site Instability:** Low to Medium Hazard. The Site will be inspected prior to equipment placement and closely monitored. Any settling of the equipment will cause the work to stop immediately.

**Equipment Refueling:** Low Hazard. Equipment shall not be refueled with the engine running. Cigarettes, open flames, or other ignition sources are not allowed within 50 feet of the fueling location.

**Personnel Injury:** Upon notification of an injury, the Project Field Leader should evaluate the nature of the injury, and the affected person should be decontaminated to the extent possible prior to movement. The Project Field Leader shall initiate the appropriate first aid, and contact should be made for an ambulance and with the designated medical facility (if required).

**Fire/Explosion:** The fire department shall be alerted, and all personnel moved to a safe distance from the involved area.

**Other Equipment Failure:** If any other equipment on site fails to operate properly, the Project Team Leader shall be notified and then determine the effect of this failure on continuing operations on site. If the failure affects the safety of personnel or prevents completion of the Work Plan tasks, work will cease until the situation is evaluated and appropriate actions taken.

## **8.0 PERSONAL PROTECTIVE EQUIPMENT**

The purpose of PPE is to protect employees from hazards and potential hazards they are likely to encounter during site activities. The amount and type of PPE used will be based on the nature of the hazard encountered or anticipated. Respiratory protection will be utilized when an airborne hazard has been identified using real-time air monitoring devices, or as a precautionary measure in areas

designated by the SSO, elevating to level C. If this occurs, contractor personnel shall be respirator-approved.

Dermal protection, primarily in the form of chemical-resistant gloves and coveralls, will be worn whenever contact with chemically affected materials (e.g. soils, groundwater, sludge) is anticipated, without regard to the level of respiratory protection required.

Based on evaluation of potential hazards, the following levels of personal protection have been designated for the applicable work areas or tasks:

<u>Location</u>	<u>Job Function</u>	<u>Level of Protection</u>
Controlled Area	All Workers	A B C <b>D</b> Other

Specific protective equipment for each level of protection is as follows:

**Level A**

- Fully-encapsulating suit
- SCBA
- Disposable coveralls

**Level C**

- Splash gear
- Half-face canister respirator with H<sub>2</sub>S/VOC cartridge
- Mouth/nose canister respirator
- Efficiency 100 (HEPA)

**Level B**

- Splash gear
- SCBA

**Level D**

- Hard hat
- Ear plugs
- Neoprene or leather gloves - nitrile gloves
- Safety vests and Glasses
- Hard toe boots

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE SSO OR PROJECT MANAGER.

**9.0 DECONTAMINATION PROCEDURES**

Despite protective procedures, personnel may come in contact with potentially hazardous compounds while performing work tasks. If so, decontamination needs to take place using an Alconox or tri-sodium phosphate (TSP), followed by a rinse with clean water. Standard decontamination procedure for levels C and D are as follows:

- Equipment drop
- Boot cover and outer glove wash and rinse
- Boot cover and out glove removal
- Suit wash and rinse
- Suit removal
- Safety boot wash and rinse
- Inner glove wash and rinse
- Respirator removal
- Inner glove removal
- Field wash of hands and face

Workers should employ only applicable steps in accordance with level of PPE worn and extent of contamination present. The SSO shall maintain adequate quantities of clean water to be used for



personal decontamination (i.e. field wash of hands and face) whenever a suitable washing facility is not located in the immediate vicinity of the work area. Disposable items will be disposed of in an appropriate container. Wash and rinse water generated from decontamination activities will be handled and disposed of properly. Non-disposable items may need to be sanitized before reuse. Each site worker is responsible for the maintenance, decontamination, and sanitizing of his/her own PPE.

Used equipment may be decontaminated as follows:

- An Alconox or TSP and water solution will be used to wash the equipment.
- The equipment will then be rinsed with clean water.

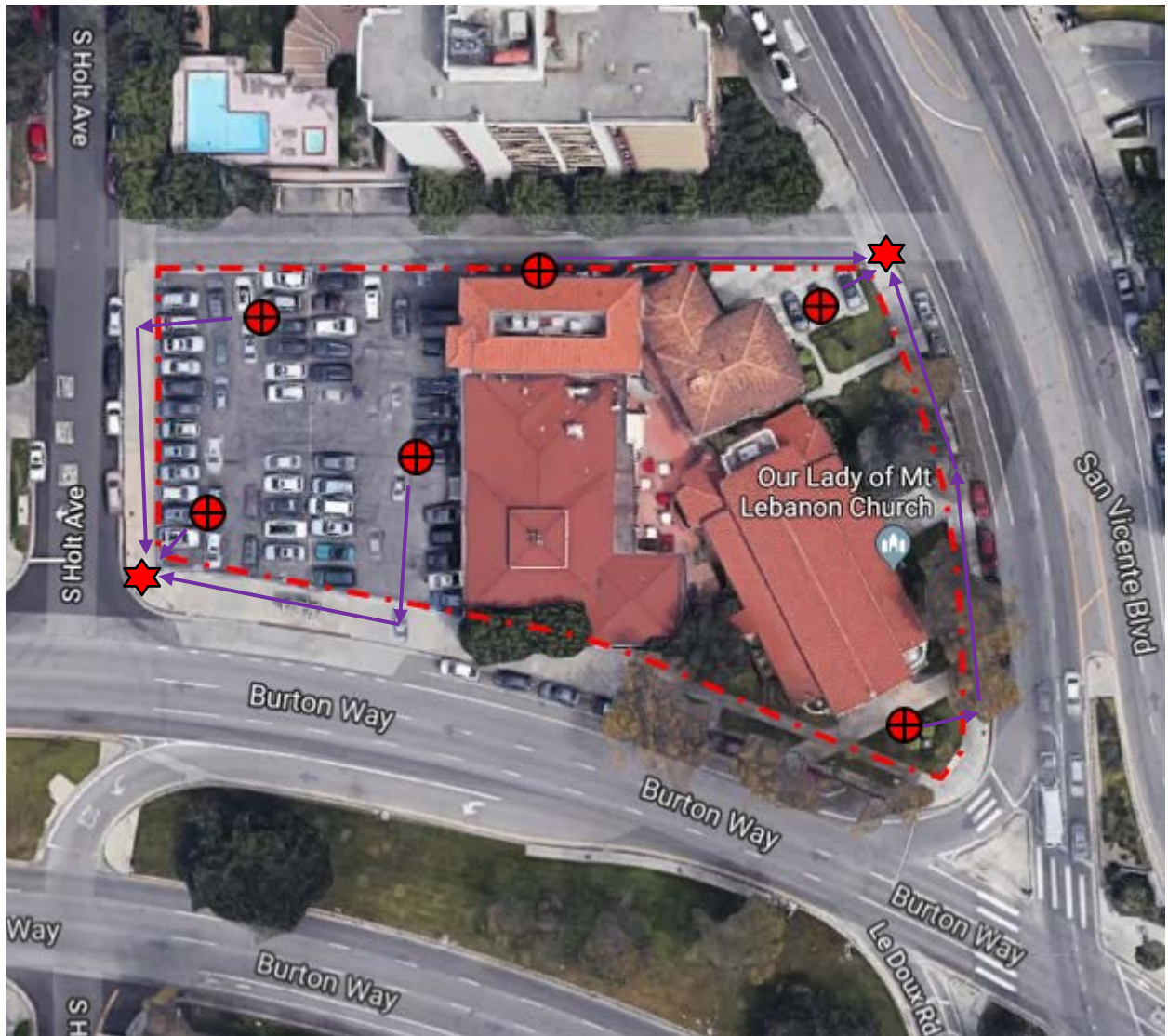
Each person must follow these procedures to reduce the potential for transferring chemically affected materials offsite.




## **10.0 EMERGENCY PROCEDURES**

In the event of an emergency, site personnel will signal distress with three blasts of a horn (a vehicle horn will be sufficient), or other predetermined signal. Communication signals, such as hand signals, must be established where communication equipment is not feasible or in areas of loud noise.

The SSO will designate evacuation routes and refuge areas to be used in the event of an emergency. Site personnel will stay upwind from vapors or smoke and upgradient from spills. Workers should exit through the established decontamination areas wherever possible. If evacuation cannot be done through an established decontamination area, site personnel will go to the nearest safe location and remove contaminated clothing there. Personnel will assemble at the predetermined refuge following evacuation and decontamination. The SSO will count and identify site personnel to verify that all personnel have been evacuated safely. Please refer to Figure 1.0 for the evacuation route and refuge location.

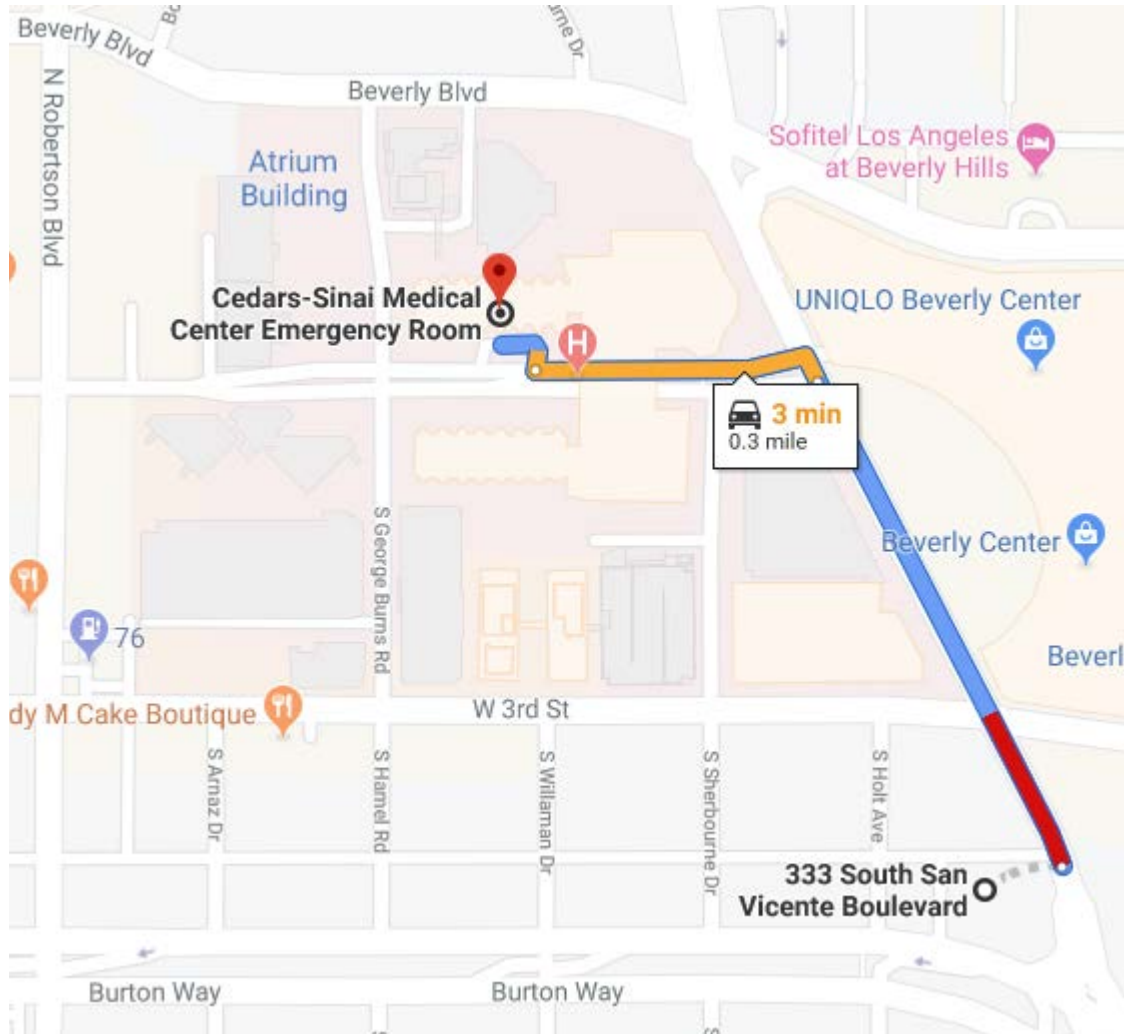
FIGURE 1.0 – EVACUATION ROUTE AND REFUGE AREAS



-  = Approximate Site Boundaries
-  = Refuge Areas
-  = Evacuation Route

The designated medical facility is:

Cedars-Sinai Medical Center Emergency Room  
 8700 Beverly Blvd, Los Angeles, CA 90048  
 Telephone: (310) 423-6472 (emergency)  
 (310) 423-3277 (general)



**Directions:**

Head north on S. San Vicente Boulevard toward W. 3 <sup>rd</sup> Street	0.2 miles
Turn left onto Gracie Allen Drive	0.1 miles
Turn right	118 feet
Destination will be on the right	

Local ambulance service is available from:

**Name:** Local Paramedics  
**Phone:** 911

First-aid equipment is available in the SSO's vehicle.

List of emergency phone numbers:

**Agency/Facility**

**Phone**

Police/Fire  
Hospital

911  
(310) 423-6472 (emergency)  
(310) 423-3277 (general)

This HASP has been prepared by:

**Megan  
Roughan**

Digitally signed by Megan Roughan  
DN: cn=Megan Roughan, o=Citadel  
Environmental Services, Inc., ou=Engineering  
& Environmental Sciences,  
email=mroughan@citadelenvironmental.com,  
c=US  
Date: 2019.07.11 15:41:46 -0700

Megan Roughan  
Staff Engineer

This HASP has been reviewed by:

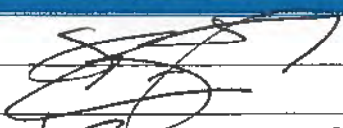

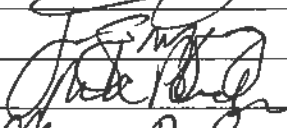
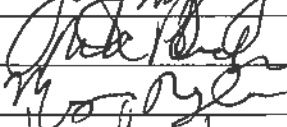
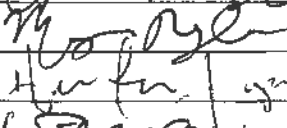
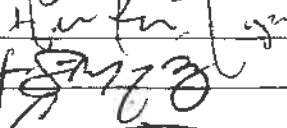
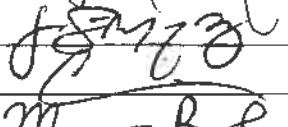
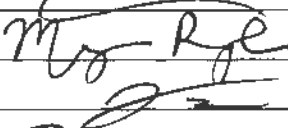
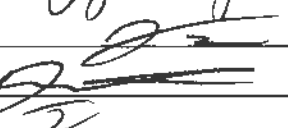
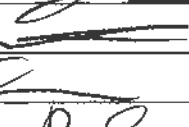
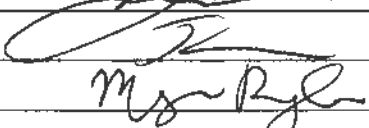
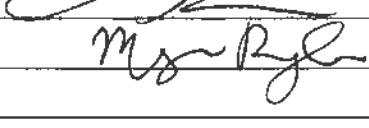
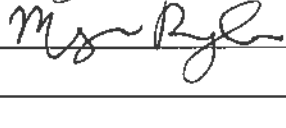
**T. Michael  
Pendergrass**

Digitally signed by T. Michael Pendergrass  
DN: cn=T. Michael Pendergrass, o=Citadel  
Environmental Services, Inc., ou=Engineering &  
Environmental Sciences,  
email=mpendergrass@citadelenvironmental.co  
m, c=US  
Date: 2019.07.11 15:43:45 -0700

T. Michael Pendergrass, PG  
Senior Project Geologist, Engineering and Environmental Sciences

### SIGNATURE PAGE

The following signatures indicate that this Health and Safety Plan (HASP) has been read and accepted by all site personnel.

NAME	COMPANY	SIGNATURE	DATE
SAL TELLO	ABC		7/26/19
CHARLES WILLIAMS	ABC		7-16-19
JESSE G. MARQUEZ	ABC		7-16-19
Mike Pendergrass	Citadel		7-16-19
Meg Roughan	Citadel		7/16/2019
HECTOR LOPEZ	ABC		7-17-19
JESSE L. MARQUEZ	ABC		7-17-19
Charles Williams	ABC		7-17-19
Meg Roughan	Citadel		7/17/2019
Jesus Tello	ABC		7/18/19
Wes Gardner	ABC		7/18/19
Juan Villalobos	ABC		7-18-19
Meg Roughan	Citadel		7/18/2019

# **Appendix C**

## **Geophysical Investigation Report**





July 16, 2019

**Citadel Environmental Services, Inc**  
151 Kalmus Drive, Suite F-4  
Costa Mesa, CA 92626

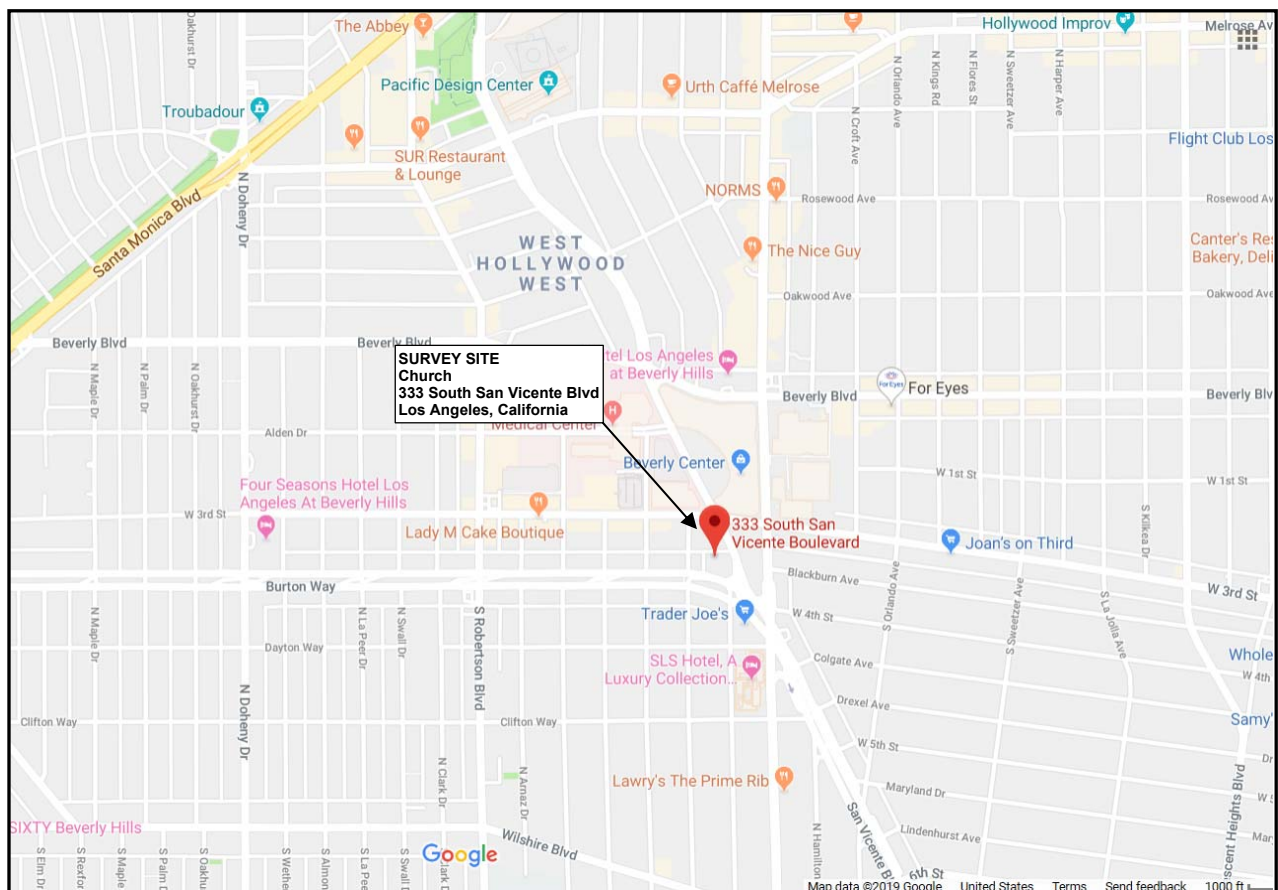
Project No. 19-278

Attn: T. Michael Pendergrass, P.G.

Re: Geophysical Investigation, Church, 333 South San Vicente Boulevard, Los Angeles, California

This report is to present the results of our geophysical survey carried out over Church property located at 333 South San Vicente Boulevard in Los Angeles, California (Figure 1). The survey was performed on July 16, 2019, and its purpose was to locate and identify, insofar as possible, the existence of any pipes, conduits, utilities, and other underground obstructions within the vicinity of six (6) proposed boreholes scheduled for drilling.

A combination of electromagnetic induction (EM), magnetometry, and ground penetrating radar (GPR) were brought to the field with anticipation of use. Utility locators with line tracing capabilities were also used where applicable.



**FIGURE 1 – Site location map**

**Survey Design** – The areas to be surveyed were identified in the field by the client. It included four (3) proposed boreholes placed on an asphalt surfaced parking lot (Figures 2-4 and 7), one (1) proposed borehole on landscaping (Figure 5) and one (1) proposed borehole on a concrete surfaced drive (Figure 6).

In site situations and survey objectives such as this, the best use of time is achieved by systematically free-traversing with the instruments while monitoring them continuously to determine which responses are significant and due to true subsurface targets, and which are due to other non-target or above-ground features and must be ignored. Where applicable, the EM devices, magnetic gradiometer, and GPR were traversed systematically over the survey areas in multiple, organized directions. Other traverses were taken for detailing and confirmation where anomalous conditions were found.

In addition, the line tracers were used to impress signals onto pipes, generally through accessible risers and tracer wires when present, to delineate the lines' locations and orientations. The instruments were also used in passive mode, configured to detect 60 Hz electrical signals and other common radio-frequency signals.

Hard copy of the EM data was not acquired, that is, discrete readings on the nodes of a grid were not recorded that could be put into a contoured map format. Rather, the instruments' meters were read continuously, and in real-time, during each traverse. This free-traversing method allowed for immediate detection of anomalous objects and facilitated the opportunity to investigate them further, without the need to first download and process data in the office. The lack of hard copy for EM data sets does not degrade the quality of the survey in any way. Hard copy merely provides a basis for report documentation of these geophysical fields, if such documentation is needed.

A Geonic's model EM61 and a Fischer TW-6 M-Scope were used for the EM sampling. A Sensors & Software Noggin Ground Penetrating Radar unit with a 500 MHz antenna produced the radar images. The a Metrotech 9890 and RIDGID SR-60 SeekTech utility locator rounded out the tools applied.

**Brief Description of the Geophysical Methods Applied** – The EM61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets.

The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object, say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) for the M-Scope are sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.



The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.

**Interpretation and Conclusions** - The interpretation took place in real time as the survey progressed, and accordingly, the findings of our investigation were verbally relayed to the client, and further documented with site photographs (Figure 2-7).

Utilities detected within the survey area were spray painted with chalk using red for electric, green for sewer, blue for water, and white for unknown piping.

Once completed the proposed boreholes were spray-painted with a white circle and yellow "SSS" to indicate that Subsurface Surveys personnel had investigated them.

**Limitations and Further Recommendations** - It should be understood that limitations inherent in geophysical instruments and/or surveying techniques exist at all sites, and nearly all sites exhibit conditions under which such might not perform optimally. Consequently, the detection of buried objects in all circumstances **cannot be guaranteed**. Such limitations are numerous and include, but are not limited to, rebar-reinforced ground cover, abrupt changes in ground cover type, above-ground obstacles preventing full traverses or traverses in one direction only, above-ground conductive objects interfering with instrument signal, nearby power lines or EM transmitters, highly conductive background soil conditions, limited GPR penetration, non-metallic targets, shallower or larger objects shielding deeper or smaller targets, tracing signal jumping from one line to another, and inaccessible risers, cleanouts, valve boxes, and manholes. If one or more geophysical instrument is rendered ineffective and cannot be utilized, the quality of the survey can be somewhat degraded.

For the above reasons, and in the interest of maximum safety, we encourage our clients to take advantage of Underground Service Alert (USA), Dig Alert, or other similar services, when possible. Furthermore, we recommend hand auguring and the use of a drilling method known as air knifing or vacuum extraction, when feasible or if applicable to this project. These methods may significantly limit damage to underground pipes, conduits, and utilities that might not have been detectable during the course of this survey. Please bear in mind, that geophysical surveying is only one of several levels of protection that is available to our clients.

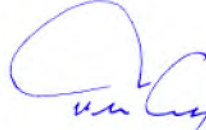
SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.

All data generated on this project are in confidential file in this office and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.



Daniel L. Matticks, MS  
Staff Geophysicist



Travis Crosby, GP# 1044  
Senior Geophysicist



**Figure 2**



**Figure 3**



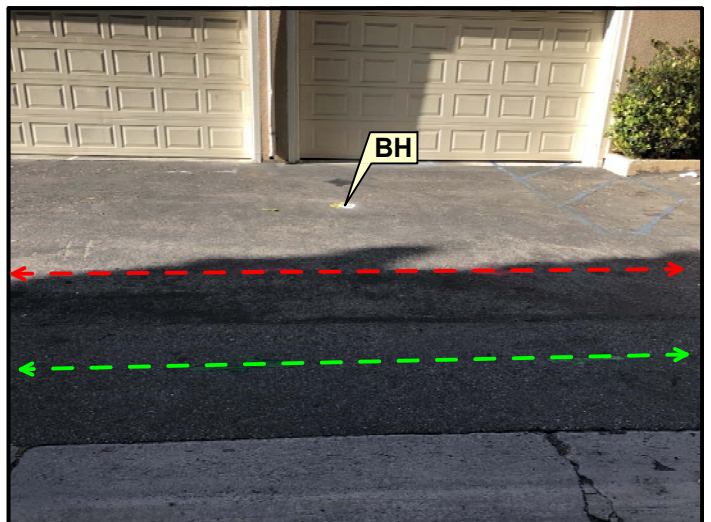
**Figure 4**



**Figure 5**



**Figure 6**



**Figure 7**



**SITE:**  
**Church**  
**333 South San Vicente Boulevard**  
**Los Angeles, California**

**TITLE:**  
**Borehole Photographs**  
**PREPARED FOR:**  
**Citadel Environmental Services, Inc**

**SURVEY DATE:**  
**July 16, 2019**  
**SSS PROJECT NO:**  
**19-278**

# Appendix D

## Waste Manifests



NO. 749498

NON-HAZARDOUS WASTE DATA FORM

BEST # 308978

Generator's Name and Mailing Address: OUR LADY OF MT. LEBANON CHURCH, 333 S. SAN VICENTE BOULEVARD, LOS ANGELES, CA 90048. Generator's Site Address (if different than mailing address): OUR LADY OF MT. LEBANON CHURCH, 333 S. SAN VICENTE BLVD., LOS ANGELES, CA 90048.

Generator's Phone: --. Container type removed from site: [X] Drums, [ ] Vacuum Truck, [ ] Roll-off Truck, [ ] Dump Truck. Container type transported to receiving facility: [ ] Drums, [X] Vacuum Truck, [ ] Roll-off Truck, [ ] Dump Truck. Quantity: 01. Volume: 53 gallons.

WASTE DESCRIPTION: NON-HAZARDOUS WASTE LIQUIDS. GENERATING PROCESS: DECON WATER. COMPONENTS OF WASTE: 1. WATER (95-100%), 2. TPH (< 1%), 3. SOLIDS (0-5%). Waste Profile: pH 4-10, [X] LIQUID. HANDLING INSTRUCTIONS:

Generator Printed/Typed Name: Pablo Rodriguez. Signature: [Signature]. Month Day Year: 7/23/19. The Generator certifies that the waste as described is 100% non-hazardous.

Transporter 1 Company Name: BELSHIRE. Phone#: 040-460-6200. Transporter 1 Printed/Typed Name: EDUARDO GARCIA. Signature: [Signature]. Month Day Year: 7/23/19. Transporter 2 Company Name: NIETO & SONS TRUCKING, INC. Phone#: 714-990-8868. Transporter 2 Printed/Typed Name: Miguel Garcia. Signature: [Signature]. Month Day Year: 7/25/19.

Designated Facility Name and Site Address: DEMENNO KERDOON, 2000 N. ALAMEDA ST., COMPTON, CA 90222. Phone#: 310-687-7100. Printed/Typed Name: SOPHAL P. SUAY. Signature: [Signature]. Month Day Year: 07/20/19. Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

33355ANV  
2100047

NO. 749497

NON-HAZARDOUS WASTE DATA FORM

BESE # 308978

Generator's Name and Mailing Address: OUR LADY OF MT. LEBANON CHURCH, 333 S. SAN VICENTE BOULEVARD, LOS ANGELES, CA 90048. Generator's Site Address (if different than mailing address): OUR LADY OF MT. LEBANON CHURCH, 333 S. SAN VICENTE BLVD., LOS ANGELES, CA 90048.

Generator's Phone: --

Container type removed from site: [X] Drums, [ ] Vacuum Truck, [ ] Roll-off Truck, [ ] Dump Truck, [ ] Other. Container type transported to receiving facility: [X] Drums, [ ] Vacuum Truck, [ ] Roll-off Truck, [ ] Dump Truck, [ ] Other.

Quantity: 19. Volume: 11,050 LBS.

WASTE DESCRIPTION: NON-HAZARDOUS SOIL. GENERATING PROCESS: SITE INVESTIGATION (DRILL CUTTINGS)

Table with 2 columns: WASTE DESCRIPTION and GENERATING PROCESS. Each column has sub-columns for COMPONENTS OF WASTE, PPM, and %. Row 1: SOIL, 100%. Row 2: (blank).

Waste Profile: 070128043-15208. PROPERTIES: pH, [X] SOLID, [ ] LIQUID, [ ] SLUDGE, [ ] SLURRY, [ ] OTHER.

HANDLING INSTRUCTIONS:

Generator Printed/Typed Name: Pablo Rodriguez. Signature: [Signature]. Month Day Year: 7 23 19. The Generator certifies that the waste as described is 100% non-hazardous.

Transporter 1 Company Name: BELSHIRE. Phone#: 848-480-5200.

Transporter 1 Printed/Typed Name: EDUARDO GARCIA. Signature: [Signature]. Month Day Year: 7 23 19.

Transporter 2 Company Name. Phone#.

Transporter 2 Printed/Typed Name. Signature. Month Day Year.

Transporter Acknowledgment of Receipt of Materials.

Designated Facility Name and Site Address: U.S. ECOLOGY, NEVADA OPERATIONS, HIGHWAY 95, 11 MILES S. OF BEATTY, BEATTY, NV 89003. Phone#: 775-553-2203.





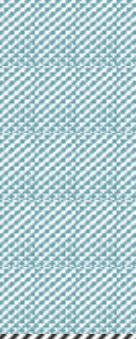

Printed/Typed Name: Kenneth Harrington. Signature: [Signature]. Month Day Year: 9 9 19.


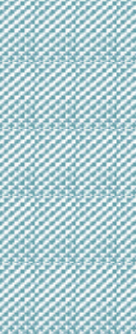

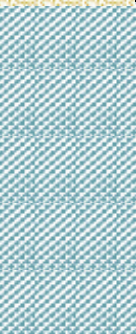



Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.








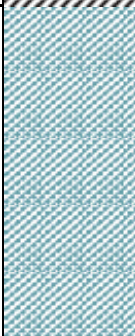

# Appendix E

## Boring Logs





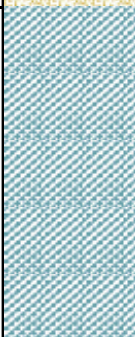

Boring I.D. B1		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/16/2019		Start Time 0815		Completion Time 1000	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
1						Asphalt cover.		
2								
3								
4								
5	B1-5	0845	0	6, 8, 10	CL	Silty clay, slightly moist, friable, slightly sticky, plastic, 2.5Y 2.5/1 (black).		
6								
7								
8								
9								
10	B1-10	0850	0	7, 8, 11	CH	Clay with some silt, slightly moist, firm, slightly sticky, plastic, 2.5Y 5/2 (grayish brown).		
11								
12								
13								
14								
15	B1-15	0855	0	6, 9, 12	CH	Clay with some silt and fine sand, friable, slightly sticky, plastic, 5Y 5/2 (olive gray).		
16								
17								
18								
19								
20	B1-20	0900	7,735	8, 9, 17	SC	Fine sand with silt and clay, some gravel, moist, very friable, slightly sticky, slightly plastic, 2.5Y 4/4 (olive brown).		
21								
22								
23								
24								
25	B1-25	0905	40	6, 12, 16	CH	Clay with some sand, moist, very friable, slightly sticky, plastic, GLEY1 3/5G_1 (very dark greenish gray).		

Boring I.D. B1		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/16/2019		Start Time 0815		Completion Time 1000	Backfilling Cement grout	Total Depth (feet) 60'	Depth to Groundwater (feet) 23'	
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
26								
27								
28								
29								
30	B1-30	0915	0	10, 13, 16	SC	Clay with fine sand and gravel, moist, firm, not sticky, not plastic, 2.5Y 3/1 (very dark gray).		
31								
32								
33								
34								
35	B1-35	0925	0	7, 10, 11	SP	Fine to coarse sand with clay and gravel, wet, very friable, slightly sticky, not plastic, 2.5Y 4/2 (dark grayish brown).		
36								
37								
38								
39								
40	B1-40	0930	0	7, 8, 14	SC	Clay and fine sand, slightly moist, very firm, not sticky, not plastic, 2.5Y 3/3 (dark olive brown).		
41								
42								
43								
44								
45	B1-45	0940	0	8, 9, 11	CL	Clay with some silt, very firm, slightly sticky, slightly plastic, 5Y 5/2 (olive gray).		
46								
47								
48								
49								
50	B1-50	0945	0	9, 10, 13	CL	Clay with some silt and fine sand, firm, not sticky, slightly plastic, GLEY1 4/5G_1 (greenish gray).		


Boring I.D. B1		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/16/2019		Start Time 0815		Completion Time 1000	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description	Graphic Log	
51							51 52 53 54 55	
52								
53								
54								
55	B1-55	0950	0	11, 10, 15	SC	Clay with fine sand and silt, slightly moist, extremely firm, not sticky, not plastic, 2.5Y 4/2 (olive gray).		
56							56 57 58 59 60	
57								
58								
59								
60	B1-60	0955	0	8, 9, 17	CL	Silty clay, slightly moist, extremely firm, not sticky, not plastic, GLEY1 4/10GY (dark greenish gray).		
End exploration at 60'.								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								




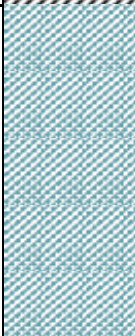

Boring I.D. B2		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/16/2019		Start Time 1140		Completion Time 1330	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
1						Asphalt cover.		
2								
3								
4								
5	B2-5	1210	0	8, 12, 14	CL	Silty clay, slightly moist, firm, not sticky, slightly plastic, 2.5Y 3/1 (very dark gray).		
6								
7								
8								
9								
10	B2-10	1215	0	8, 11, 14	CL	Silty clay with some gravel, slightly moist, firm, not sticky, slightly plastic, 2.5Y 5/2 (grayish brown).		
11								
12								
13								
14								
15	B2-15	1220	0	8, 9, 15	CH	Clay with sand, slightly moist, friable, not sticky, plastic, 2.5Y 5/1 (gray).		
16								
17								
18								
19								
20	B2-20	1225	0	7, 9, 16	SC	Clay with sand and gravel, wet, friable, slightly sticky, not plastic, 2.5Y 4/1 (dark gray).		
21								
22								
23								
24								
25	B2-25	1235	0	6, 8, 12	CL	Clay with fine sand, moist, friable, not sticky, slightly plastic, GLEY1 4/10Y (dark greenish gray).		



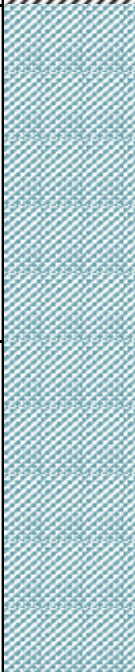





Boring I.D. B2		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/16/2019		Start Time 1140		Completion Time 1330	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
26								
27								
28								
29						Fine sand with some gravel, slightly moist, very friable, not sticky, not plastic, 2.5Y 3/2 (very dark grayish brown).		
30	B2-30	1240	0	10, 10, 12	SP			
31								
32								
33								
34								
35	B2-35	1250	0	10, 13, 14	SP	Fine and coarse sand with gravel, wet, very friable, not sticky, not plastic, 2.5Y 4/2 (dark grayish brown).		
36								
37								
38								
39								
40						No recovery.		
41								
42								
43								
44								
45	B2-45	1300	0	7, 12, 16	SP	Fine and coarse sand, wet, very friable, not sticky, not plastic, 2.5Y 4/2 (dark grayish brown).		
46								
47								
48								
49								
50	B2-50	1305	0	8, 12, 17	SC	Clay with fine sand, slightly moist, very firm, not sticky, slightly plastic, 2.5Y 6/1 (gray).		




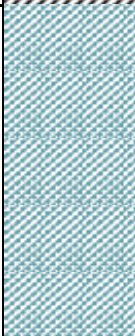




Boring I.D. B2		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/16/2019		Start Time 1140		Completion Time 1330	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
51								
52								
53								
54								
55	B2-55	1310	0	7, 11, 13	CL	Clay with some fine sand, slightly moist, extremely firm, not sticky, not plastic, GLEY1 5/10Y (greenish gray).		
56								
57								
58								
59								
60	B2-60	1325	0	8, 9, 14	CL	Clay with some fine sand, slightly moist, extremely firm, not sticky, not plastic, GLEY1 5/10Y (greenish gray).		
End exploration at 60'.								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								


Boring I.D. B3		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/17/2019		Start Time 0745		Completion Time 0935	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
1						Asphalt cover.		
2								
3								
4								
5	B3-5	0810	0	8, 9, 12	CL	Silty clay, slightly moist, firm, slightly sticky, slightly plastic, 2.5Y 3/2 (very dark grayish brown).		
6								
7								
8								
9								
10	B3-10	0815	0	6, 9, 13	CH	Silty clay, moist, friable, slightly sticky, plastic, 2.5Y 4/2 (dark grayish brown).		
11								
12								
13								
14								
15	B3-15	0825	0	7, 8, 13	CH	Clay with some sand and gravel, very moist, friable, slightly sticky, plastic, 5Y 6/2 (light olive gray).		
16								
17								
18								
19								
20	B3-20	0830	0	9, 11, 12	SC	Clay and fine to medium sand, wet, loose, not sticky, not plastic, 2.5Y 3/2 (very dark grayish brown).		
21								
22								
23								
24								
25	B3-25	0835	0	7, 10, 15	CH	Clay, moist, friable, slightly sticky, very plastic, GLEY1 3/10Y (very dark greenish gray).		

Boring I.D. B3		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/17/2019		Start Time 0745		Completion Time 0935	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
26								
27								
28								
29								
30	B3-30	0845	0	7, 14, 15	CH	Clay, moist, friable, slightly sticky, very plastic, GLEY1 3/10Y (very dark greenish gray).		
31								
32								
33								
34								
35	B3-35	0855	0	8, 13, 18	SC	Clay and sand and gravel, slightly moist, friable, not sticky, not plastic, 2.5Y 4/2 (dark grayish brown).		
36								
37						Layer of very wet coarse sand with clay.		
38								
39								
40	B3-40	0900	0	7, 13, 15	SC	Clay and fine sand, very moist, very friable, not sticky, not plastic, 2.5Y 4/2 (dark grayish brown).		
41								
42								
43								
44								
45	B3-45	0910	0	7, 13, 15	CL	Clay and coarse sand with gravel, wet, very friable, slightly sticky, slightly plastic, 2.5Y 4/2 (dark grayish brown).		
46								
47								
48								
49								
50	B3-50	0920	0	6, 12, 15	CH	Clay, very moist, firm, slightly sticky, very plastic, 2.5Y 6/2 (light brownish gray).		


Boring I.D. B3		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/17/2019		Start Time 0745		Completion Time 0935	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
51						Layer of wet clay and coarse sand with gravel.		
52						Layer of very plastic light gray clay.		
53								
54								
55	B3-55	0925	0	7, 12, 18	CL	Clay with some silt, slightly moist, very firm, not sticky, slightly plastic, 2.5Y 5/2 (grayish brown).		
56								
57								
58								
59								
60	B3-60	0930	0	9, 13, 17	CL	Clay with some silt, slightly moist, extremely firm, not sticky, not plastic, 2.5Y 4/2 (dark grayish brown).		
End exploration at 60'.								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								





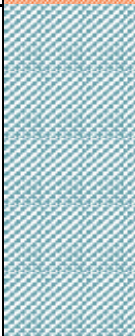

Boring I.D. B4		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/17/2019		Start Time 1120		Completion Time 1305	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
1						Asphalt cover.		
2								
3								
4								
5	B4-5	1130	0	(Hand Auger)	CL	Silty clay with fine sand, slightly moist, firm, not sticky, not plastic, 2.5Y 3/2 (very dark grayish brown).		
6								
7								
8								
9								
10	B4-10	1140	0	9, 10, 12	CL	Silty clay, slightly moist, firm, not sticky, slightly plastic, 2.5Y 5/3 (light olive brown).		
11								
12								
13								
14								
15	B4-15	1150	0	8, 11, 14	CH	Clay with some coarse sand and gravel, very moist, friable, slightly sticky, very plastic, 2.5Y 4/3 (olive brown).		
16								
17								
18								
19								
20	B4-20	1200	0	8, 14, 15	SC	Clay and coarse sand and gravel, wet, very friable, slightly sticky, not plastic, 2.5Y 6/1 (gray).		
21								
22								
23								
24								
25	B4-25	1210	0	6, 9, 13	CH	Clay, very moist, friable, slightly sticky, very plastic, GLEY1 3/N (very dark gray).		





Boring I.D. B4		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Livioin Drilling			Checked By: MP			
Drilling Date 7/17/2019		Start Time 1120		Completion Time 1305	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description	Graphic Log	
26							▼	
27								
28								
29						Clay with some sand and gravel, slightly moist, firm, not sticky, slightly plastic, GLEY1 4/10GY (dark greenish gray).		
30	B4-30	1215	0	8, 9, 12	CL			
31								
32								
33								
34								
35	B4-35	1220	0	12, 13, 17	SC	Clay and sand and gravel, slightly moist, friable, not sticky, not plastic, 2.5Y 4/1 (dark gray).		
36								
37								
38								
39								
40	B4-40	1225	0	7, 11, 16	SC	Clay and coarse sand, wet, very friable, slightly sticky, slightly plastic, 2.5Y 4/2 (dark grayish brown).		
41								
42								
43								
44								
45	B4-45	1235	0	10, 10, 12	CH	Clay with some gravel, very moist, very firm, slightly sticky, plastic, 2.5Y 3/2 (very dark grayish brown).		
46								
47								
48								
49								
50	B4-50	1245	0	7, 8, 12	CL	Clay, moist, very firm, not sticky, slightly plastic, 2.5Y 5/2 (grayish brown).		





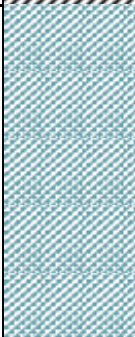
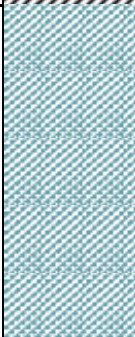


Boring I.D. B4		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/17/2019		Start Time 1120		Completion Time 1305	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
51								
52								
53								
54								
55	B4-55	1250	0	8, 9, 13	CL	Clay, slightly moist, extremely firm, not sticky, slightly plastic, 2.5Y 4/1 (dark gray).		
56								
57								
58								
59								
60	B4-60	1255	0	6, 8, 9	CL	Clay, slightly moist, extremely firm, not sticky, slightly plastic, 2.5Y 4/1 (dark gray).		
End exploration at 60'.								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								


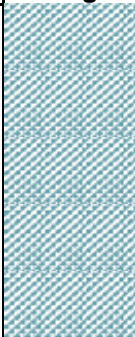


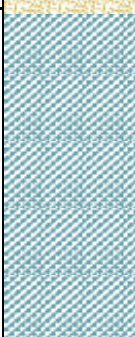



Boring I.D. B5		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/18/2019		Start Time 0750		Completion Time 0925	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppm)	Blow Count	USCS	Soil Description		Graphic Log
1						6-inch concrete cover.		
2								
3								
4								
5	B5-5	0800	0	12, 13, 15	CL	Silty clay with fine sand, dry, slightly hard, not sticky, not plastic, 2.5Y 6/2 (light brownish gray).		
6								
7								
8								
9								
10	B5-10	0810	0	7, 9, 10	CH	Clay with some silt, slightly moist, friable, not sticky, plastic, 2.5Y 5/2 (grayish brown).		
11								
12								
13								
14								
15	B5-15	0815	0	6, 7, 8	CL	Clay with silt and fine sand, slightly moist, friable, not sticky, slightly plastic, 2.5Y 4/3 (olive brown).		
16								
17								
18								
19								
20	B5-20	0820	0	14, 16, 18	SC	Sand with clay and gravel, wet, loose, not sticky, not plastic, 2.5Y 3/2 (very dark grayish brown).		
21								
22								
23								
24								
25	B5-25	0825	0	10, 12, 13	CL	Clay with fine sand and some silt, slightly moist, friable, slightly sticky, slightly plastic, GLEY1 2.5/5G_1 (greenish black).		

Boring I.D. B5		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/18/2019		Start Time 0750		Completion Time 0925	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppm)	Blow Count	USCS	Soil Description		Graphic Log
26								
27								
28								
29								
30	B5-30	0830	0	10, 12, 13	CL	Clay with gravel, slightly moist, firm, not sticky, slightly plastic, 2.5Y 4/1 (dark gray).		
31								
32								
33								
34								
35						No recovery.		
36								
37								
38								
39								
40	B5-40	0850	0	12, 13, 16	CL	Clay with some fine sand, moist, friable, slightly sticky, slightly plastic, 2.5Y 4/2 (dark grayish brown).		
41								
42								
43								
44								
45	B5-45	0900	0	15, 16, 19	CL	Clay with some sand and gravel, moist, friable, not sticky, slightly plastic, 2.5Y 4/3 (olive brown).		
46								
47								
48								
49								
50	B5-50	0910	0	16, 16, 20	CL	Clay with some fine sand, very moist, firm, not sticky, slightly plastic, 2.5Y 4/4 (olive brown).		


Boring I.D. B5		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/18/2019		Start Time 0750		Completion Time 0925	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppm)	Blow Count	USCS	Soil Description		Graphic Log
51								
52								
53								
54								
55	B5-55	0915	0	16, 16, 19	CL	Clay with fine sand, moist, firm, not sticky, slightly plastic, GLEY2 4/10BG (dark greenish gray).		
56								
57								
58								
59								
60	B5-60	0920	0	14, 16, 19	CL	Clay with sand, moist, very friable, not sticky, slightly plastic, GLEY 5/10G (greenish gray).		
End exploration at 60'.								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								

Boring I.D. B6		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/18/2019		Start Time 1040		Completion Time 1310	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
1						Grass cover.		
2								
3								
4								
5	B6-5	1145	0	12, 13, 16	SP	Fine sand with gravel and some clay, dry, soft, not sticky, not plastic, 2.5Y 5/4 (light olive brown).		
6						Dry, loose sandy and gravelly layer.		
7								
8								
9								
10	B6-10	1150	0	11, 13, 14	CL	Silty clay with some gravel, slightly moist, very firm, not sticky, slightly plastic, 2.5Y 4/4 (olive brown).		
11								
12								
13								
14								
15	B6-15	1155	0	10, 11, 13	CL	Silty clay, slightly moist, firm, not sticky, slightly plastic, 2.5Y 4/2 (dark grayish brown).		
16								
17								
18								
19								
20	B6-20	1200	0	7, 9, 9	CH	Clay with gravel, moist, friable, slightly sticky, plastic, 2.5Y 6/1 (gray).		
21								
22								
23								
24								
25	B6-25	1205	0	7, 9, 9	SC	Fine sand with clay, moist, very friable, slightly sticky, not plastic, GLEY1 2.5/10Y (greenish black).		



Boring I.D. B6		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/18/2019		Start Time 1040		Completion Time 1310	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
26								
27								
28								
29								
30	B6-30	1210	0	7, 8, 9	SC	Sand and gravel and clay, slightly moist, friable, not sticky, not plastic, 2.5Y 4/2 (dark grayish brown).		
31								
32								
33								
34								
35	B6-35	1230	0	13, 14, 16	SP	Coarse sand with some fine sand and clay, wet, loose, not sticky, not plastic, 2.5Y 3/3 (dark olive brown).		
36								
37								
38								
39								
40	B6-40	1235	0	14, 14, 17	SC	Clay and fine sand with coarse sand, wet, very friable, slightly sticky, slightly plastic, 2.5Y 3/2 (very dark grayish brown).		
41								
42								
43								
44								
45	B6-45	1245	0	16, 17, 20	CL	Clay with sand and gravel, moist, friable, slightly sticky, slightly plastic, 2.5Y 4/2 (dark grayish brown).		
46								
47								
48								
49								
50	B6-50	1255	0	17, 17, 21	CL	Clay with gravel, very firm, slightly sticky, slightly plastic, 2.5Y 4/3 (olive brown).		



Boring I.D. B6		Project No. 1234.1003		Project Mt. Lebanon Church Sampling				
Location 333 S. San Vicente Blvd, Los Angeles, CA					Logged By: MR			
Drilling Method Hollow Stem		Driller ABC Liovin Drilling			Checked By: MP			
Drilling Date 7/18/2019		Start Time 1040		Completion Time 1310	Backfilling Cement grout	Total Depth (feet) 60'		
Depth (feet)	Sample ID	Sample Time	PID (ppb)	Blow Count	USCS	Soil Description		Graphic Log
51								Hatched pattern
52								
53								
54								
55	B6-55	1300	0	14, 16, 18	CH	Clay with some coarse sand, very moist, very friable, sticky, very plastic, GLEY1 6/5G_1 (greenish gray).		
56								Orange pattern
57								
58								
59								
60	B6-60	1305	0	15, 17, 21	CL	Clay with coarse sand and gravel, moist, very firm, slightly sticky, slightly plastic, GLEY1 6/5G_1 (greenish gray).		
End exploration at 60'.								
61								
62								
63								
64								
65								
66								
67								
68								
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73								
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# Appendix F

## Citadel Field Notes

**CITADEL ENVIRONMENTAL SERVICES, INC.**  
**PROJECT DOCUMENTATION**



CLIENT	Sheppard Mullin	PAGE	1 OF 2
PROJECT NUMBER	1234.1003	CITADEL REPRESENTATIVE	M. Roughan M. Pendergrass
PROJECT NAME	Mt. Lebanon Church Sampling	CONTRACTOR	Driller ABC Liovin
PROJECT WORK AREA	333 S. San Vicente Blvd	SUPERVISOR	N/A
PROJECT LOCATION	Los Angeles, CA		

TIME	FIELD NOTES
0700	Citadel meets with Dan from Subsurface Surveys on site, reviews boring locations, SSS pulls out utility locating equipment (EM 61, GPR, etc.) and begins geophysical investigation.
0715	ABC arrives on site, Citadel meets with Sal and Conrad to discuss boring locations and order of drilling
0735	Citadel goes over scope of work and HASP with ABC while SSS continues geophysical investigation of boring locations
0745	ABC begins coring off parts of parking lot, mobilizes rig and equipment to boring location in parking lot
0815	Begin drilling B1 and taking soil samples every 5 ft B1-5: 0845                      B1-GW sample taken @ 0915 B1-10: 0850                      (GW encountered at 23') B1-15: 0855                      B1-35: 0925                      B1-55: 0950 B1-20: 0900                      B1-40: 0930                      B1-60: 0955 B1-25: 0905                      B1-45: 0940 B1-30: 0915                      B1-50: 0945
1000	Finish B1; begin mixing cement grout and pulling up augers, wiping off clay and drumming (Note: SSS completed geophysical around 0830 and left site; MP left site at around 0910)
1055	Begin mobilizing rig and equipment to B2, another boring location in parking lot
1110	Break for lunch
1140	Begin B2 and taking soil samples every 5 ft B2-5: 1210                      B2-15: 1220                      B2-GW sample taken B2-10: 1215                      B2-20: 1225                      @ 1230

CITADEL REPRESENTATIVE:	Megan Roughan	DAY:	Tuesday
SIGNATURE:	<i>Megan Roughan</i>	DATE:	7/16/2019



CLIENT	Sheppard Mullin	PAGE	2 OF 2
PROJECT NUMBER	1234.1003	CITADEL REPRESENTATIVE	M. Roughan
PROJECT NAME	Mt. Lebanon Church Sampling	<del>CONTRACTOR</del> Driller	ABC Liorin
PROJECT WORK AREA	333 S. San Vicente Blvd	SUPERVISOR	N/A
PROJECT LOCATION	Los Angeles, CA		

TIME	FIELD NOTES
	(GW encountered @ 28')
	B2-25: 1235                      B2-45: 1300
	B2-30: 1240                      B2-50: 1305
	B2-35: 1250                      B2-55: 1310
	B2-40: no recovery              B2-60: 1325
1330	Finish B2; begin mixing cement grout & pulling up augers, wiping clay off and drumming
1430	Begin site cleanup and moving rig to overnight location in parking lot, begin patching borings; Citadel call to PM
1500	six drums of soil cuttings generated; placed in parking space in north of lot. Citadel and ABC off site

CITADEL REPRESENTATIVE: Megan Roughan	DAY: Tuesday
SIGNATURE: <i>M. Roughan</i>	DATE: 7/16/2019

**CITADEL ENVIRONMENTAL SERVICES, INC.**  
**PROJECT DOCUMENTATION**



CLIENT	Sheppard Mullin	PAGE	1 OF 2
PROJECT NUMBER	1234.1003	CITADEL REPRESENTATIVE	M. Roughan
PROJECT NAME	Mt. Lebanon Church Sampling	<del>CONTRACTOR</del> Driller	ABC Livvin
PROJECT WORK AREA	333 S. San Vicente Blvd	SUPERVISOR	N/A
PROJECT LOCATION	Los Angeles, CA		

TIME	FIELD NOTES
0700	Citadel and ABC meet on site, ABC had mobilized drill rig to be positioned near B3 location (last boring in parking lot); Citadel gives safety talk and reviews scope of work
0720	Citadel and ABC set up work space to begin drilling and sampling
0745	Begin drilling B3, taking soil samples every 5ft
	B3-5: 0810                      B3-30: 0845
	B3-10: 0815                    B3-35: 0855
	B3-15: 0825                    B3-40: 0900
	B3-20: 0830                    B3-45: 0910
	B3-25: 0835                    B3-50: 0920
	B3-GW sample taken 0840      B3-55: 0925 (GW encountered @ 29')
	B3-60: 0930
0935	Complete drilling, begin pulling up and cleaning auger, drum soils
1040	Begin mobilizing rig and equipment to B4 location in alleyway
1105	Eurofins Calscience courier arrives, picks up samples for borings B1, B2, B3
1120	Begin drilling B4, taking soil samples every 5ft
	B4-5: 1130                      B4-40: 1225
	B4-10: 1140                    B4-GW sample taken 1230 (GW encountered @ 29')
	B4-15: 1150                    B4-45: 1235
	B4-20: 1200                    B4-50: 1245
	B4-25: 1210                    B4-55: 1250
	B4-30: 1215                    B4-60: 1255
	B4-35: 1220

CITADEL REPRESENTATIVE:	Megan Roughan	DAY:	Wednesday
SIGNATURE:	<i>Megan Roughan</i>	DATE:	7/17/2019



**CITADEL ENVIRONMENTAL SERVICES, INC.**  
**PROJECT DOCUMENTATION**



CLIENT	Sheppard Mullin	PAGE	2 OF 2
PROJECT NUMBER	1234.1003	CITADEL REPRESENTATIVE	M. Roughan
PROJECT NAME	Mt. Lebanon Church Sampling	<del>CONTRACTOR</del> - Driller	ABC Liovin
PROJECT WORK AREA	333 S. San Vicente Blvd	SUPERVISOR	N/A
PROJECT LOCATION	Los Angeles, CA		

TIME	FIELD NOTES
1305	Finish drilling B4, begin pulling up & cleaning auger, drum soils
1315	Break for lunch
1345	Back to lifting auger and cleaning work area, mixing cement grout to fill boring
1440	Begin mobilizing drill rig to B5 location to bore through concrete and complete hand augering to 5 ft so crew next day with smaller, track mounted rig doesn't have to
1520	Begin patching boring locations, cleaning up site and powerwashing mud from drilling off of surfaces
1550	ABC begins packing up equipment; Citadel call to PM
1620	six drums of soil generated; 12 left on site total
	Citadel and ABC off site

CITADEL REPRESENTATIVE: Megan Roughan	DAY: Wednesday
SIGNATURE: <i>M. Roughan</i>	DATE: 7/17/2019



**CITADEL ENVIRONMENTAL SERVICES, INC.**  
**PROJECT DOCUMENTATION**



CLIENT	Sheppard Mullin	PAGE	1 OF 2
PROJECT NUMBER	1234.1003	CITADEL REPRESENTATIVE	M. Roughan
PROJECT NAME	Mt. Lebanon Church Sampling	<del>CONTRACTOR</del> Driller	ABC Liorin
PROJECT WORK AREA	333 S. San Vicente Blvd	SUPERVISOR	N/A
PROJECT LOCATION	Los Angeles, CA		

TIME	FIELD NOTES		
0650	Citadel meets ABC on site, reviews boring locations with new crew		
0715	Last ABC driller arrives, Citadel reviews scope of work and HASP with ABC. ABC begins mobilizing track mounted rig and equipment to B5		
0750	Begin drilling B5, taking soil samples every 5 ft		
	B5-5: 0800                      B5-GW sample taken 0840		
	B5-10: 0810                    (GW encountered @ 33')		
	B5-15: 0815                    B5-40: 0850		
	B5-20: 0820                    B5-45: 0900		
	B5-25: 0825                    B5-50: 0910		
	B5-30: 0830                    B5-55: 0915		
	B5-35: no recovery            B5-60: 0920		
0925	Complete drilling B5, begin lifting & cleaning auger and drumming clay, begin mixing cement grout		
1005	Begin mobilizing rig and equipment to B6 location on grass in front of church; place cones and caution tape to prevent pedestrians from entering work zone		
1040	Begin hand augering to 5ft at B6 after removing layer of grass and setting aside		
1100	Break for lunch		
1140	Begin drilling B6, taking soil samples every 5 ft		
	B6-5: 1145                      B6-25: 1205                      Eurofins Calscience		
	B6-10: 1150                      B6-30: 1210                      courier picked up		
	B6-15: 1155                      B6-35: 1230                      B4 and B5		
	B6-20: 1200                      B6-40: 1235                      samples @ 1200		
CITADEL REPRESENTATIVE:	Megan Roughan	DAY:	Thursday
SIGNATURE:	<i>Megan Roughan</i>	DATE:	7/18/2019

**CITADEL ENVIRONMENTAL SERVICES, INC.  
PROJECT DOCUMENTATION**



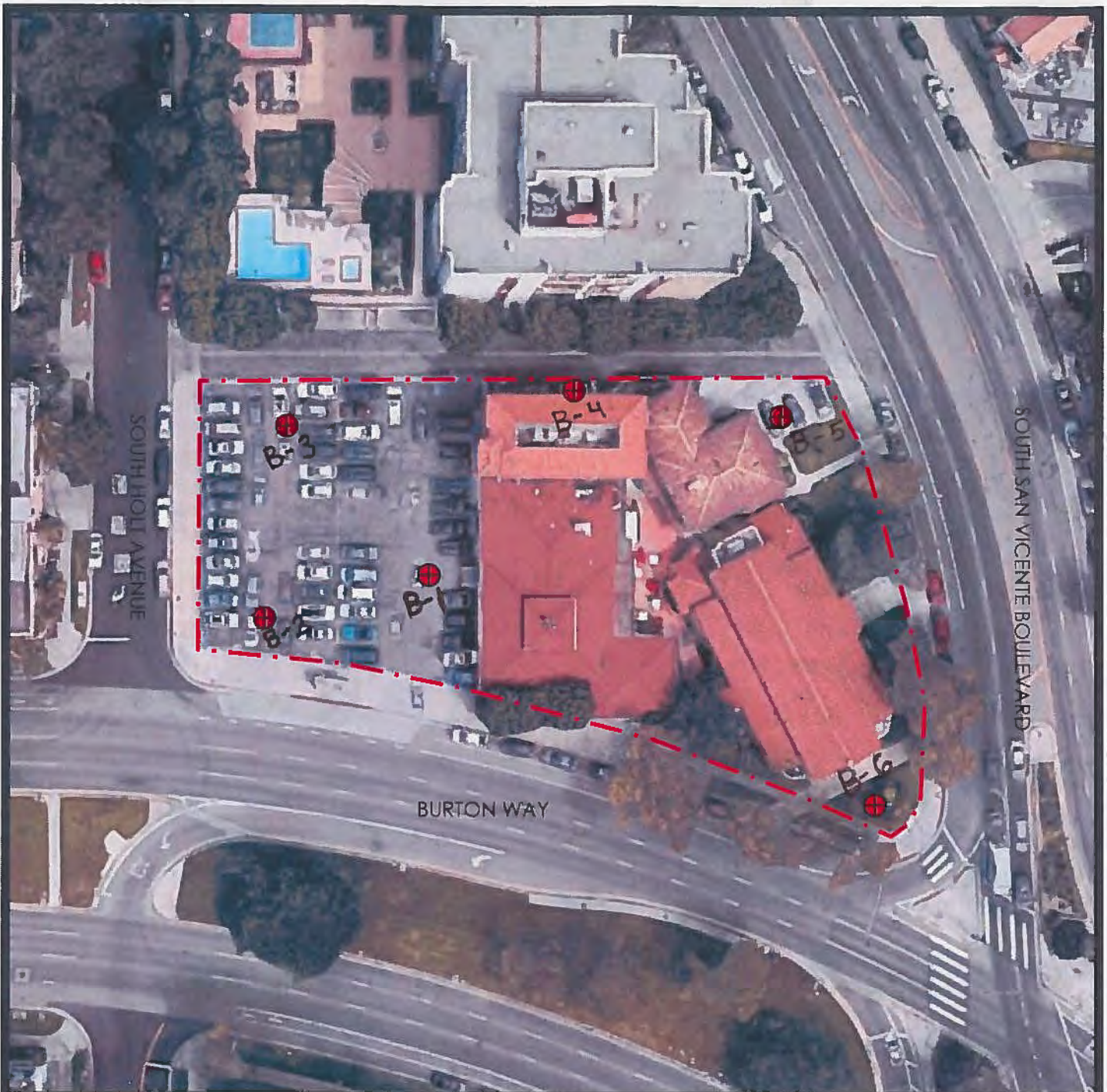
CLIENT	Sheppard Mullin	PAGE	2 OF 2
PROJECT NUMBER	1234.1003	CITADEL REPRESENTATIVE	M. Roughan
PROJECT NAME	Mt. Lebaron Church Sampling	CONTRACTOR	ABC Liovin
PROJECT WORK AREA	333 S. San Vicente Blvd.	SUPERVISOR	N/A
PROJECT LOCATION	Los Angeles, CA		



TIME	FIELD NOTES
	BG-45: 1245                      BG-60: 1305
	BG-50: 1255                      BG-GW sample taken 1320
	BG-55: 1300                      (GW encountered at 34')
1310	Complete drilling BG, begin mixing cement grout, after taking GW sample begin lifting and cleaning auger and drumming clay
1400	Completing site clean up, patching borings & sweeping dirt, bringing equipment and drill rig back to truck
1530	Seven drums of soil cuttings and one drum of decon water generated; 20 drums left on site in parking lot. Citadel and ABC off site

CITADEL REPRESENTATIVE: Megan Roughan	DAY: Thursday
SIGNATURE:	DATE: 7/18/19

Revised July 2010





-  SITE BOUNDARIES
-  BORING LOCATIONS



Source: Google Earth

Not to Scale



**SHEPPARD, MULLIN, RICHTER, &  
HAMPTON, LLP**

333 South San Vicente Boulevard  
Los Angeles, California

Figure 1

PROJECT NO.: 1234.1003.0  
DATE: JUNE 2019

**Site Map**

# **Appendix G**

## **Laboratory Reports and Chain of Custody Documentation**

## ANALYTICAL REPORT

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

Laboratory Job ID: 570-2098-1

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



---

Authorized for release by:  
7/29/2019 4:59:31 PM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

### GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

---

## Job ID: 570-2098-1

---

### Laboratory: Eurofins Calscience LLC

#### Narrative

---

#### Job Narrative 570-2098-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/17/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

#### Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: B3-55 (570-2098-11), B3-60 (570-2098-12) and B3-GW (570-2098-13). Collection time taken from sample labels.

#### 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.

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## Job ID: 570-2098-2

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### Laboratory: Eurofins Calscience LLC

#### Narrative

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#### Job Narrative 570-2098-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/17/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

#### Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: B3-55 (570-2098-11), B3-60 (570-2098-12) and B3-GW (570-2098-13). Collection time taken from sample labels.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for preparation batch 570-6057 and 570-6236 and analytical batch 570-6348 recovered outside control limits for the following analytes: Carbon disulfide. This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

#### Metals

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.

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-1

## Client Sample ID: B3-30

## Lab Sample ID: 570-2098-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
C6-C44	8.4	B	5.1	mg/Kg	1		8015B	Total/NA
Barium	128		0.513	mg/Kg	1		6010B	Total/NA
Beryllium	1.07		0.256	mg/Kg	1		6010B	Total/NA
Cadmium	1.78		0.513	mg/Kg	1		6010B	Total/NA
Chromium	37.9		0.256	mg/Kg	1		6010B	Total/NA
Cobalt	10.6		0.256	mg/Kg	1		6010B	Total/NA
Copper	30.1		0.513	mg/Kg	1		6010B	Total/NA
Lead	0.973		0.513	mg/Kg	1		6010B	Total/NA
Nickel	30.3		0.256	mg/Kg	1		6010B	Total/NA
Selenium	0.798		0.769	mg/Kg	1		6010B	Total/NA
Vanadium	75.1		0.256	mg/Kg	1		6010B	Total/NA
Zinc	75.3		1.03	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B3-60

## Lab Sample ID: 570-2098-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
C41-C44	6.9		4.9	mg/Kg	1		8015B	Total/NA
C6-C44	14		4.9	mg/Kg	1		8015B	Total/NA
Antimony	0.808		0.746	mg/Kg	1		6010B	Total/NA
Barium	135		0.498	mg/Kg	1		6010B	Total/NA
Beryllium	1.01		0.249	mg/Kg	1		6010B	Total/NA
Chromium	45.3		0.249	mg/Kg	1		6010B	Total/NA
Cobalt	13.8		0.249	mg/Kg	1		6010B	Total/NA
Copper	28.5		0.498	mg/Kg	1		6010B	Total/NA
Nickel	23.0		0.249	mg/Kg	1		6010B	Total/NA
Vanadium	68.9		0.249	mg/Kg	1		6010B	Total/NA
Zinc	73.6		0.995	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Client Sample ID: B3-30**  
**Date Collected: 07/17/19 08:45**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Benzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Bromobenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Bromochloromethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Bromodichloromethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Bromoform	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Bromomethane	ND		26	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
2-Butanone	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Carbon disulfide	ND	*	51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Chlorobenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Chloroethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Chloroform	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Chloromethane	ND		26	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Dibromochloromethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Dibromomethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Ethanol	ND		260	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Ethylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
2-Hexanone	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Isopropylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Methylene Chloride	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
m,p-Xylene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Naphthalene	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
n-Butylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
N-Propylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
o-Xylene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Client Sample ID: B3-30**  
**Date Collected: 07/17/19 08:45**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Tetrachloroethene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Toluene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Trichloroethene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Trichlorofluoromethane	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Vinyl acetate	ND		51	ug/Kg		07/19/19 15:40	07/19/19 22:47	1
Vinyl chloride	ND		5.1	ug/Kg		07/19/19 15:40	07/19/19 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120	07/19/19 15:40	07/19/19 22:47	1
Dibromofluoromethane	96		79 - 133	07/19/19 15:40	07/19/19 22:47	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 155	07/19/19 15:40	07/19/19 22:47	1
Toluene-d8 (Surr)	95		80 - 120	07/19/19 15:40	07/19/19 22:47	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-1

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

**Client Sample ID: B3-30**  
**Date Collected: 07/17/19 08:45**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C7 as C7	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C8 as C8	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C9-C10	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C11-C12	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C13-C14	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C15-C16	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C17-C18	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C19-C20	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C21-C22	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C23-C24	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C25-C28	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C29-C32	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C33-C36	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C37-C40	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
C41-C44	ND		5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	1
<b>C6-C44</b>	<b>8.4</b>	<b>B</b>	5.1	mg/Kg	-	07/20/19 15:29	07/23/19 09:44	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>	109		61 - 145			07/20/19 15:29	07/23/19 09:44	1

**Client Sample ID: B3-60**  
**Date Collected: 07/17/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C7 as C7	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C8 as C8	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C9-C10	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C11-C12	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C13-C14	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C15-C16	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C17-C18	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C19-C20	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C21-C22	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C23-C24	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C25-C28	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C29-C32	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C33-C36	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
C37-C40	ND		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
<b>C41-C44</b>	<b>6.9</b>		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	1
<b>C6-C44</b>	<b>14</b>		4.9	mg/Kg	-	07/22/19 15:48	07/23/19 21:50	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>	98		61 - 145			07/22/19 15:48	07/23/19 21:50	1



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: B3-30**  
**Date Collected: 07/17/19 08:45**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.769	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
Arsenic	ND	L	0.769	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Barium</b>	<b>128</b>		0.513	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Beryllium</b>	<b>1.07</b>		0.256	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Cadmium</b>	<b>1.78</b>		0.513	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Chromium</b>	<b>37.9</b>		0.256	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Cobalt</b>	<b>10.6</b>		0.256	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Copper</b>	<b>30.1</b>		0.513	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Lead</b>	<b>0.973</b>		0.513	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
Molybdenum	ND	L	0.256	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Nickel</b>	<b>30.3</b>		0.256	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Selenium</b>	<b>0.798</b>		0.769	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
Silver	ND		0.256	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
Thallium	ND		0.769	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Vanadium</b>	<b>75.1</b>		0.256	mg/Kg		07/20/19 09:00	07/24/19 20:20	1
<b>Zinc</b>	<b>75.3</b>		1.03	mg/Kg		07/20/19 09:00	07/24/19 20:20	1

**Client Sample ID: B3-60**  
**Date Collected: 07/17/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Antimony</b>	<b>0.808</b>		0.746	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
Arsenic	ND		0.746	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Barium</b>	<b>135</b>		0.498	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Beryllium</b>	<b>1.01</b>		0.249	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
Cadmium	ND		0.498	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Chromium</b>	<b>45.3</b>		0.249	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Cobalt</b>	<b>13.8</b>		0.249	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Copper</b>	<b>28.5</b>		0.498	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
Lead	ND	L	0.498	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
Molybdenum	ND	L	0.249	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Nickel</b>	<b>23.0</b>		0.249	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
Selenium	ND	L	0.746	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
Silver	ND		0.249	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
Thallium	ND	L	0.746	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Vanadium</b>	<b>68.9</b>		0.249	mg/Kg		07/23/19 14:18	07/24/19 13:29	1
<b>Zinc</b>	<b>73.6</b>		0.995	mg/Kg		07/23/19 14:18	07/24/19 13:29	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: B3-30**  
**Date Collected: 07/17/19 08:45**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0862	mg/Kg		07/22/19 11:30	07/22/19 15:04	1

**Client Sample ID: B3-60**  
**Date Collected: 07/17/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0806	mg/Kg		07/23/19 11:00	07/23/19 19:26	1

# Surrogate Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

## 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)			
		BFB (80-120)	DBFM (79-133)	DCA (71-155)	TOL (80-120)
570-2086-A-1-E MS	Matrix Spike	108	94	105	105
570-2086-A-1-F MSD	Matrix Spike Duplicate	104	100	98	109
570-2098-6	B3-30	97	96	101	95
LCS 570-6348/4	Lab Control Sample	102	98	99	94
MB 570-6057/1-A	Method Blank	99	99	99	96

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane  
 DCA = 1,2-Dichloroethane-d4 (Surr)  
 TOL = Toluene-d8 (Surr)

## 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)
570-2042-B-1-D MS	Matrix Spike	111
570-2042-B-1-E MSD	Matrix Spike Duplicate	117
570-2098-6	B3-30	109
570-2098-12	B3-60	98
570-2270-A-5-A MS	Matrix Spike	94
570-2270-A-5-B MSD	Matrix Spike Duplicate	90
LCS 570-6630/2-A	Lab Control Sample	107
LCS 570-6863/2-A	Lab Control Sample	96
MB 570-6630/1-A	Method Blank	112
MB 570-6863/1-A	Method Blank	93

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: MB 570-6057/1-A**  
**Matrix: Solid**  
**Analysis Batch: 6348**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6057**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Benzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Bromobenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Bromochloromethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Bromodichloromethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Bromoform	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Bromomethane	ND		25	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
2-Butanone	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Carbon disulfide	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Chlorobenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Chloroethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Chloroform	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Chloromethane	ND		25	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Dibromochloromethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Dibromomethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Ethanol	ND		250	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Ethylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
2-Hexanone	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Isopropylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Methylene Chloride	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
m,p-Xylene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Naphthalene	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
n-Butylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
N-Propylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
o-Xylene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: MB 570-6057/1-A**  
**Matrix: Solid**  
**Analysis Batch: 6348**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6057**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Styrene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Tetrachloroethene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Toluene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Trichloroethene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Trichlorofluoromethane	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Vinyl acetate	ND		51	ug/Kg		07/18/19 14:14	07/19/19 17:01	1
Vinyl chloride	ND		5.1	ug/Kg		07/18/19 14:14	07/19/19 17:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120	07/18/19 14:14	07/19/19 17:01	1
Dibromofluoromethane	99		79 - 133	07/18/19 14:14	07/19/19 17:01	1
1,2-Dichloroethane-d4 (Surr)	99		71 - 155	07/18/19 14:14	07/19/19 17:01	1
Toluene-d8 (Surr)	96		80 - 120	07/18/19 14:14	07/19/19 17:01	1

**Lab Sample ID: 570-2086-A-1-E MS**  
**Matrix: Solid**  
**Analysis Batch: 6348**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 6057**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.0	54.45		ug/Kg		111	61 - 127
Carbon tetrachloride	ND		49.0	51.20		ug/Kg		104	51 - 135
Chlorobenzene	ND		49.0	49.25		ug/Kg		100	57 - 123
1,2-Dibromoethane	ND		49.0	54.04		ug/Kg		110	64 - 124
1,2-Dichlorobenzene	ND		49.0	46.96		ug/Kg		96	35 - 131
1,2-Dichloroethane	ND		49.0	54.43		ug/Kg		111	70 - 130
1,1-Dichloroethene	ND		49.0	49.21		ug/Kg		100	47 - 143
Di-isopropyl ether (DIPE)	ND		49.0	45.18		ug/Kg		92	57 - 129
Ethanol	ND		490	541.3		ug/Kg		110	17 - 167
Ethylbenzene	ND		49.0	50.69		ug/Kg		103	57 - 129
Ethyl-t-butyl ether (ETBE)	ND		49.0	44.11		ug/Kg		90	55 - 127
Methyl-t-Butyl Ether (MTBE)	ND		49.0	40.42		ug/Kg		82	57 - 123
m,p-Xylene	ND		98.0	104.0		ug/Kg		106	70 - 130

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: 570-2086-A-1-E MS**

**Matrix: Solid**

**Analysis Batch: 6348**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 6057**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	ND		49.0	52.45		ug/Kg		107	70 - 130
<b>Surrogate</b>	<b>MS %Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	108		80 - 120						
Dibromofluoromethane	94		79 - 133						
1,2-Dichloroethane-d4 (Surr)	105		71 - 155						
Toluene-d8 (Surr)	105		80 - 120						

**Lab Sample ID: 570-2086-A-1-F MSD**

**Matrix: Solid**

**Analysis Batch: 6348**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 6057**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		50.3	53.88		ug/Kg		107	61 - 127	1	20
Carbon tetrachloride	ND		50.3	51.48		ug/Kg		102	51 - 135	1	29
Chlorobenzene	ND		50.3	52.32		ug/Kg		104	57 - 123	6	20
1,2-Dibromoethane	ND		50.3	55.33		ug/Kg		110	64 - 124	2	20
1,2-Dichlorobenzene	ND		50.3	53.27		ug/Kg		106	35 - 131	13	25
1,2-Dichloroethane	ND		50.3	53.96		ug/Kg		107	70 - 130	1	20
1,1-Dichloroethene	ND		50.3	49.39		ug/Kg		98	47 - 143	0	25
Di-isopropyl ether (DIPE)	ND		50.3	46.13		ug/Kg		92	57 - 129	2	20
Ethanol	ND		50.3	726.3		ug/Kg		144	17 - 167	29	47
Ethylbenzene	ND		50.3	53.21		ug/Kg		106	57 - 129	5	22
Ethyl-t-butyl ether (ETBE)	ND		50.3	45.17		ug/Kg		90	55 - 127	2	20
Methyl-t-Butyl Ether (MTBE)	ND		50.3	40.68		ug/Kg		81	57 - 123	1	21
m,p-Xylene	ND		101	109.6		ug/Kg		109	70 - 130	5	20
o-Xylene	ND		50.3	54.62		ug/Kg		109	70 - 130	4	20
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	104		80 - 120								
Dibromofluoromethane	100		79 - 133								
1,2-Dichloroethane-d4 (Surr)	98		71 - 155								
Toluene-d8 (Surr)	109		80 - 120								

**Lab Sample ID: LCS 570-6348/4**

**Matrix: Solid**

**Analysis Batch: 6348**

**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	57.84		ug/Kg		116	78 - 120
Carbon tetrachloride	50.0	57.16		ug/Kg		114	49 - 139
Chlorobenzene	50.0	57.33		ug/Kg		115	79 - 120
1,2-Dibromoethane	50.0	58.47		ug/Kg		117	70 - 130
1,2-Dichlorobenzene	50.0	56.05		ug/Kg		112	75 - 120
1,2-Dichloroethane	50.0	56.17		ug/Kg		112	70 - 130
1,1-Dichloroethene	50.0	54.04		ug/Kg		108	74 - 122
Di-isopropyl ether (DIPE)	50.0	50.31		ug/Kg		101	78 - 120
Ethanol	500	545.1		ug/Kg		109	56 - 140

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

Lab Sample ID: LCS 570-6348/4  
 Matrix: Solid  
 Analysis Batch: 6348

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	59.70		ug/Kg		119	76 - 120
Ethyl-t-butyl ether (ETBE)	50.0	49.18		ug/Kg		98	70 - 124
Methyl-t-Butyl Ether (MTBE)	50.0	43.69		ug/Kg		87	70 - 124
m,p-Xylene	100	121.2		ug/Kg		121	70 - 130
o-Xylene	50.0	61.75		ug/Kg		124	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane	98		79 - 133
1,2-Dichloroethane-d4 (Surr)	99		71 - 155
Toluene-d8 (Surr)	94		80 - 120

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

Lab Sample ID: MB 570-6630/1-A  
 Matrix: Solid  
 Analysis Batch: 6923

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 6630

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C7 as C7	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C8 as C8	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C9-C10	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C11-C12	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C13-C14	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C15-C16	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C17-C18	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C19-C20	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C21-C22	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C23-C24	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C25-C28	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C29-C32	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C33-C36	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C37-C40	ND		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C41-C44	6.026		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1
C6-C44	11.63		5.0	mg/Kg		07/20/19 15:29	07/23/19 05:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		61 - 145	07/20/19 15:29	07/23/19 05:48	1

Lab Sample ID: LCS 570-6630/2-A  
 Matrix: Solid  
 Analysis Batch: 6923

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 6630

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	400	405.0		mg/Kg		101	67 - 121

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: LCS 570-6630/2-A**  
**Matrix: Solid**  
**Analysis Batch: 6923**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6630**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>n</i> -Octacosane (Surr)	107		61 - 145

**Lab Sample ID: 570-2042-B-1-D MS**  
**Matrix: Solid**  
**Analysis Batch: 6923**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 6630**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Diesel Range Organics [C10-C28]	480	F1	400	1153	F1	mg/Kg		168		33 - 153

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
<i>n</i> -Octacosane (Surr)	111		61 - 145

**Lab Sample ID: 570-2042-B-1-E MSD**  
**Matrix: Solid**  
**Analysis Batch: 6923**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 6630**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Diesel Range Organics [C10-C28]	480	F1	400	863.8		mg/Kg		96		29	32

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>n</i> -Octacosane (Surr)	117		61 - 145

**Lab Sample ID: MB 570-6863/1-A**  
**Matrix: Solid**  
**Analysis Batch: 6997**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6863**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
C6 as C6	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C7 as C7	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C8 as C8	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C9-C10	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C11-C12	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C13-C14	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C15-C16	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C17-C18	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C19-C20	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C21-C22	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C23-C24	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C25-C28	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C29-C32	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C33-C36	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C37-C40	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C41-C44	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1
C6-C44	ND		5.0	mg/Kg		07/22/19 15:48	07/23/19 13:22	1

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: MB 570-6863/1-A**  
**Matrix: Solid**  
**Analysis Batch: 6997**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6863**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>n</i> -Octacosane (Surr)	93		61 - 145	07/22/19 15:48	07/23/19 13:22	1

**Lab Sample ID: LCS 570-6863/2-A**  
**Matrix: Solid**  
**Analysis Batch: 6997**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6863**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>n</i> -Octacosane (Surr)	96		61 - 145

**Lab Sample ID: 570-2270-A-5-A MS**  
**Matrix: Solid**  
**Analysis Batch: 6997**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 6863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
<i>n</i> -Octacosane (Surr)	94		61 - 145

**Lab Sample ID: 570-2270-A-5-B MSD**  
**Matrix: Solid**  
**Analysis Batch: 6997**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 6863**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>n</i> -Octacosane (Surr)	90		61 - 145

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-6479/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7719**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6479**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Antimony	ND		0.750	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Arsenic	ND		0.750	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Barium	ND		0.500	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Beryllium	ND		0.250	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Cadmium	ND		0.500	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Chromium	ND		0.250	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Cobalt	ND		0.250	mg/Kg		07/20/19 09:00	07/24/19 19:54	1

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: MB 570-6479/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7719**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6479**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.500	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Lead	ND		0.500	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Molybdenum	ND		0.250	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Nickel	ND		0.250	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Selenium	ND		0.750	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Silver	ND		0.250	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Thallium	ND		0.750	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Vanadium	ND		0.250	mg/Kg		07/20/19 09:00	07/24/19 19:54	1
Zinc	ND		1.00	mg/Kg		07/20/19 09:00	07/24/19 19:54	1

**Lab Sample ID: LCS 570-6479/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6479**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	25.9	23.68		mg/Kg		91	80 - 120
Arsenic	25.9	23.89		mg/Kg		92	80 - 120
Barium	25.9	27.99		mg/Kg		108	80 - 120
Beryllium	25.9	24.19		mg/Kg		93	80 - 120
Cadmium	25.9	26.63		mg/Kg		103	80 - 120
Chromium	25.9	26.16		mg/Kg		101	80 - 120
Cobalt	25.9	27.86		mg/Kg		108	80 - 120
Copper	25.9	26.38		mg/Kg		102	80 - 120
Lead	25.9	27.24		mg/Kg		105	80 - 120
Molybdenum	25.9	24.56		mg/Kg		95	80 - 120
Nickel	25.9	27.17		mg/Kg		105	80 - 120
Selenium	25.9	23.39		mg/Kg		90	80 - 120
Silver	13.0	12.42		mg/Kg		96	80 - 120
Thallium	25.9	25.90		mg/Kg		100	80 - 120
Vanadium	25.9	25.34		mg/Kg		98	80 - 120
Zinc	25.9	25.98		mg/Kg		100	80 - 120

**Lab Sample ID: LCSD 570-6479/3-A**  
**Matrix: Solid**  
**Analysis Batch: 7719**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 6479**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	24.3	22.43		mg/Kg		92	80 - 120	5	20
Arsenic	24.3	22.54		mg/Kg		93	80 - 120	6	20
Barium	24.3	25.98		mg/Kg		107	80 - 120	7	20
Beryllium	24.3	22.68		mg/Kg		93	80 - 120	6	20
Cadmium	24.3	24.66		mg/Kg		102	80 - 120	8	20
Chromium	24.3	24.27		mg/Kg		100	80 - 120	7	20
Cobalt	24.3	25.91		mg/Kg		107	80 - 120	7	20
Copper	24.3	24.41		mg/Kg		101	80 - 120	8	20
Lead	24.3	25.10		mg/Kg		103	80 - 120	8	20
Molybdenum	24.3	22.99		mg/Kg		95	80 - 120	7	20
Nickel	24.3	25.36		mg/Kg		104	80 - 120	7	20
Selenium	24.3	21.81		mg/Kg		90	80 - 120	7	20

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: LCSD 570-6479/3-A**  
**Matrix: Solid**  
**Analysis Batch: 7719**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 6479**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	12.1	11.53		mg/Kg		95	80 - 120	7	20
Thallium	24.3	24.22		mg/Kg		100	80 - 120	7	20
Vanadium	24.3	23.48		mg/Kg		97	80 - 120	8	20
Zinc	24.3	24.15		mg/Kg		99	80 - 120	7	20

**Lab Sample ID: 570-1903-A-21-C MS**  
**Matrix: Solid**  
**Analysis Batch: 7719**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 6479**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	24.8	11.19	F1	mg/Kg		43	50 - 115
Arsenic	16.3		24.8	37.49		mg/Kg		86	75 - 125
Barium	24.3		24.8	47.09		mg/Kg		92	75 - 125
Beryllium	ND		24.8	24.50		mg/Kg		98	75 - 125
Cadmium	ND		24.8	24.81		mg/Kg		100	75 - 125
Chromium	4.44		24.8	28.77		mg/Kg		98	75 - 125
Cobalt	2.40		24.8	27.13		mg/Kg		100	75 - 125
Copper	2.97		24.8	27.33		mg/Kg		98	75 - 125
Lead	1.60		24.8	25.12		mg/Kg		95	75 - 125
Molybdenum	0.775		24.8	21.65		mg/Kg		84	75 - 125
Nickel	4.75		24.8	29.54		mg/Kg		100	75 - 125
Selenium	ND		24.8	22.48		mg/Kg		91	75 - 125
Silver	ND		12.4	11.89		mg/Kg		96	75 - 125
Thallium	ND		24.8	22.98		mg/Kg		93	75 - 125
Vanadium	11.3		24.8	33.78		mg/Kg		91	75 - 125
Zinc	14.8		24.8	36.89		mg/Kg		89	75 - 125

**Lab Sample ID: 570-1903-A-21-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 7719**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 6479**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	24.2	10.61	F1	mg/Kg		42	50 - 115	5	20
Arsenic	16.3		24.2	36.91		mg/Kg		85	75 - 125	2	20
Barium	24.3		24.2	45.85		mg/Kg		89	75 - 125	3	20
Beryllium	ND		24.2	23.89		mg/Kg		98	75 - 125	3	20
Cadmium	ND		24.2	24.06		mg/Kg		100	75 - 125	3	20
Chromium	4.44		24.2	27.95		mg/Kg		97	75 - 125	3	20
Cobalt	2.40		24.2	26.46		mg/Kg		100	75 - 125	2	20
Copper	2.97		24.2	26.58		mg/Kg		98	75 - 125	3	20
Lead	1.60		24.2	24.78		mg/Kg		96	75 - 125	1	20
Molybdenum	0.775		24.2	21.19		mg/Kg		85	75 - 125	2	20
Nickel	4.75		24.2	28.81		mg/Kg		100	75 - 125	3	20
Selenium	ND		24.2	22.61		mg/Kg		94	75 - 125	1	20
Silver	ND		12.1	11.62		mg/Kg		96	75 - 125	2	20
Thallium	ND		24.2	21.98		mg/Kg		91	75 - 125	4	20
Vanadium	11.3		24.2	32.91		mg/Kg		90	75 - 125	3	20
Zinc	14.8		24.2	36.22		mg/Kg		89	75 - 125	2	20

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: MB 570-7123/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7433**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 7123**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.761	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Arsenic	ND		0.761	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Barium	ND		0.508	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Beryllium	ND		0.254	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Cadmium	ND		0.508	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Chromium	ND		0.254	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Cobalt	ND		0.254	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Copper	ND		0.508	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Lead	ND		0.508	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Molybdenum	ND		0.254	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Nickel	ND		0.254	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Selenium	ND		0.761	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Silver	ND		0.254	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Thallium	ND		0.761	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Vanadium	ND		0.254	mg/Kg		07/23/19 14:18	07/24/19 12:59	1
Zinc	ND		1.02	mg/Kg		07/23/19 14:18	07/24/19 12:59	1

**Lab Sample ID: LCS 570-7123/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7433**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 7123**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	24.6	21.75		mg/Kg		88	80 - 120
Arsenic	24.6	22.16		mg/Kg		90	80 - 120
Barium	24.6	27.83		mg/Kg		113	80 - 120
Beryllium	24.6	25.14		mg/Kg		102	80 - 120
Cadmium	24.6	27.25		mg/Kg		111	80 - 120
Chromium	24.6	26.60		mg/Kg		108	80 - 120
Cobalt	24.6	27.67		mg/Kg		112	80 - 120
Copper	24.6	26.56		mg/Kg		108	80 - 120
Lead	24.6	27.65		mg/Kg		112	80 - 120
Molybdenum	24.6	25.41		mg/Kg		103	80 - 120
Nickel	24.6	28.09		mg/Kg		114	80 - 120
Selenium	24.6	24.86		mg/Kg		101	80 - 120
Silver	12.3	12.28		mg/Kg		100	80 - 120
Thallium	24.6	27.48		mg/Kg		112	80 - 120
Vanadium	24.6	25.70		mg/Kg		104	80 - 120
Zinc	24.6	26.65		mg/Kg		108	80 - 120

**Lab Sample ID: LCSD 570-7123/3-A**  
**Matrix: Solid**  
**Analysis Batch: 7433**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 7123**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	25.1	22.69		mg/Kg		90	80 - 120	4	20
Arsenic	25.1	22.35		mg/Kg		89	80 - 120	1	20
Barium	25.1	28.22		mg/Kg		112	80 - 120	1	20
Beryllium	25.1	25.59		mg/Kg		102	80 - 120	2	20
Cadmium	25.1	27.68		mg/Kg		110	80 - 120	2	20

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: LCSD 570-7123/3-A**  
**Matrix: Solid**  
**Analysis Batch: 7433**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 7123**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	25.1	27.05		mg/Kg		108	80 - 120	2	20
Cobalt	25.1	28.15		mg/Kg		112	80 - 120	2	20
Copper	25.1	26.85		mg/Kg		107	80 - 120	1	20
Lead	25.1	28.34		mg/Kg		113	80 - 120	2	20
Molybdenum	25.1	26.30		mg/Kg		105	80 - 120	3	20
Nickel	25.1	28.29		mg/Kg		113	80 - 120	1	20
Selenium	25.1	25.45		mg/Kg		101	80 - 120	2	20
Silver	12.6	12.42		mg/Kg		99	80 - 120	1	20
Thallium	25.1	28.07		mg/Kg		112	80 - 120	2	20
Vanadium	25.1	26.09		mg/Kg		104	80 - 120	2	20
Zinc	25.1	27.32		mg/Kg		109	80 - 120	2	20

**Lab Sample ID: 570-2101-A-30-D MS**  
**Matrix: Solid**  
**Analysis Batch: 7433**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 7123**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.93	F1	24.9	13.63	F1	mg/Kg		47	50 - 115
Arsenic	16.6		24.9	44.30		mg/Kg		111	75 - 125
Barium	57.9	F1	24.9	89.83	F1	mg/Kg		128	75 - 125
Beryllium	0.340		24.9	29.92		mg/Kg		119	75 - 125
Cadmium	ND		24.9	30.17		mg/Kg		121	75 - 125
Chromium	6.03		24.9	36.24		mg/Kg		121	75 - 125
Cobalt	2.67		24.9	32.44		mg/Kg		120	75 - 125
Copper	3.84		24.9	33.50		mg/Kg		119	75 - 125
Lead	13.2		24.9	42.54		mg/Kg		118	75 - 125
Molybdenum	7.87		24.9	35.48		mg/Kg		111	75 - 125
Nickel	4.75		24.9	35.44		mg/Kg		123	75 - 125
Selenium	ND		24.9	28.46		mg/Kg		114	75 - 125
Silver	ND		12.4	12.01		mg/Kg		97	75 - 125
Thallium	ND		24.9	29.10		mg/Kg		117	75 - 125
Vanadium	12.6		24.9	41.58		mg/Kg		117	75 - 125
Zinc	23.0		24.9	52.83		mg/Kg		120	75 - 125

**Lab Sample ID: 570-2101-A-30-E MSD**  
**Matrix: Solid**  
**Analysis Batch: 7433**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 7123**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.93	F1	25.4	12.87	F1	mg/Kg		43	50 - 115	6	20
Arsenic	16.6		25.4	45.03		mg/Kg		112	75 - 125	2	20
Barium	57.9	F1	25.4	91.80	F1	mg/Kg		134	75 - 125	2	20
Beryllium	0.340		25.4	30.55		mg/Kg		119	75 - 125	2	20
Cadmium	ND		25.4	30.94		mg/Kg		122	75 - 125	3	20
Chromium	6.03		25.4	37.02		mg/Kg		122	75 - 125	2	20
Cobalt	2.67		25.4	33.13		mg/Kg		120	75 - 125	2	20
Copper	3.84		25.4	34.31		mg/Kg		120	75 - 125	2	20
Lead	13.2		25.4	43.31		mg/Kg		119	75 - 125	2	20
Molybdenum	7.87		25.4	36.16		mg/Kg		111	75 - 125	2	20

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

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

**Lab Sample ID: 570-2101-A-30-E MSD**  
**Matrix: Solid**  
**Analysis Batch: 7433**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 7123**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	4.75		25.4	36.36		mg/Kg		125	75 - 125	3	20
Selenium	ND		25.4	29.02		mg/Kg		114	75 - 125	2	20
Silver	ND		12.7	12.28		mg/Kg		97	75 - 125	2	20
Thallium	ND		25.4	29.38		mg/Kg		116	75 - 125	1	20
Vanadium	12.6		25.4	42.58		mg/Kg		118	75 - 125	2	20
Zinc	23.0		25.4	53.94		mg/Kg		122	75 - 125	2	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-6617/1-A**  
**Matrix: Solid**  
**Analysis Batch: 6905**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6617**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	mg/Kg		07/22/19 11:30	07/22/19 14:39	1

**Lab Sample ID: LCS 570-6617/2-A**  
**Matrix: Solid**  
**Analysis Batch: 6905**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6617**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.820	0.7877		mg/Kg		96	85 - 121

**Lab Sample ID: LCSD 570-6617/3-A**  
**Matrix: Solid**  
**Analysis Batch: 6905**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 6617**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.806	0.8123		mg/Kg		101	85 - 121	3	10

**Lab Sample ID: 570-2341-A-1-C MS**  
**Matrix: Solid**  
**Analysis Batch: 6905**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 6617**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.862	0.8242		mg/Kg		93	71 - 137

**Lab Sample ID: 570-2341-A-1-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 6905**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 6617**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.877	0.8354		mg/Kg		93	71 - 137	1	14

**Lab Sample ID: MB 570-6808/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7520**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6808**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	mg/Kg		07/23/19 11:00	07/24/19 14:37	1

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-1

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCS 570-6808/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6808**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.820	0.8129		mg/Kg		99	85 - 121

**Lab Sample ID: LCSD 570-6808/3-A**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 6808**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.806	0.8317		mg/Kg		103	85 - 121	2	10

**Lab Sample ID: 570-2443-A-2-G MS**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 6808**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.820	0.8428		mg/Kg		95	71 - 137

**Lab Sample ID: 570-2443-A-2-H MSD**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 6808**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	ND		0.862	0.9006		mg/Kg		97	71 - 137	7	14

# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

## GC/MS VOA

### Prep Batch: 6057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-6057/1-A	Method Blank	Total/NA	Solid	5030C	
570-2086-A-1-E MS	Matrix Spike	Total/NA	Solid	5030C	
570-2086-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

### Prep Batch: 6236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	5030C	

### Analysis Batch: 6348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	8260B	6236
MB 570-6057/1-A	Method Blank	Total/NA	Solid	8260B	6057
LCS 570-6348/4	Lab Control Sample	Total/NA	Solid	8260B	
570-2086-A-1-E MS	Matrix Spike	Total/NA	Solid	8260B	6057
570-2086-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	6057

## GC Semi VOA

### Prep Batch: 6630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	3550C	
MB 570-6630/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-6630/2-A	Lab Control Sample	Total/NA	Solid	3550C	
570-2042-B-1-D MS	Matrix Spike	Total/NA	Solid	3550C	
570-2042-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

### Prep Batch: 6863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-12	B3-60	Total/NA	Solid	3550C	
MB 570-6863/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-6863/2-A	Lab Control Sample	Total/NA	Solid	3550C	
570-2270-A-5-A MS	Matrix Spike	Total/NA	Solid	3550C	
570-2270-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

### Analysis Batch: 6923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	8015B	6630
MB 570-6630/1-A	Method Blank	Total/NA	Solid	8015B	6630
LCS 570-6630/2-A	Lab Control Sample	Total/NA	Solid	8015B	6630
570-2042-B-1-D MS	Matrix Spike	Total/NA	Solid	8015B	6630
570-2042-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	6630

### Analysis Batch: 6997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-12	B3-60	Total/NA	Solid	8015B	6863
MB 570-6863/1-A	Method Blank	Total/NA	Solid	8015B	6863
LCS 570-6863/2-A	Lab Control Sample	Total/NA	Solid	8015B	6863
570-2270-A-5-A MS	Matrix Spike	Total/NA	Solid	8015B	6863
570-2270-A-5-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	6863

# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

## Metals

### Prep Batch: 6479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	3050B	
MB 570-6479/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-6479/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-6479/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-1903-A-21-C MS	Matrix Spike	Total/NA	Solid	3050B	
570-1903-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

### Prep Batch: 6617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	7471A	
MB 570-6617/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-6617/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-6617/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-2341-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	
570-2341-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

### Prep Batch: 6808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-12	B3-60	Total/NA	Solid	7471A	
MB 570-6808/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-6808/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-6808/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-2443-A-2-G MS	Matrix Spike	Total/NA	Solid	7471A	
570-2443-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

### Analysis Batch: 6905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	7471A	6617
MB 570-6617/1-A	Method Blank	Total/NA	Solid	7471A	6617
LCS 570-6617/2-A	Lab Control Sample	Total/NA	Solid	7471A	6617
LCSD 570-6617/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	6617
570-2341-A-1-C MS	Matrix Spike	Total/NA	Solid	7471A	6617
570-2341-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	6617

### Prep Batch: 7123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-12	B3-60	Total/NA	Solid	3050B	
MB 570-7123/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-7123/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-7123/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-2101-A-30-D MS	Matrix Spike	Total/NA	Solid	3050B	
570-2101-A-30-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

### Analysis Batch: 7383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-12	B3-60	Total/NA	Solid	7471A	6808
LCS 570-6808/2-A	Lab Control Sample	Total/NA	Solid	7471A	6808
LCSD 570-6808/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	6808
570-2443-A-2-G MS	Matrix Spike	Total/NA	Solid	7471A	6808
570-2443-A-2-H MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	6808

# QC Association Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

## Metals

### Analysis Batch: 7433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-12	B3-60	Total/NA	Solid	6010B	7123
MB 570-7123/1-A	Method Blank	Total/NA	Solid	6010B	7123
LCS 570-7123/2-A	Lab Control Sample	Total/NA	Solid	6010B	7123
LCSD 570-7123/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	7123
570-2101-A-30-D MS	Matrix Spike	Total/NA	Solid	6010B	7123
570-2101-A-30-E MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	7123

### Analysis Batch: 7520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-6808/1-A	Method Blank	Total/NA	Solid	7471A	6808

### Analysis Batch: 7719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-6	B3-30	Total/NA	Solid	6010B	6479
MB 570-6479/1-A	Method Blank	Total/NA	Solid	6010B	6479
LCS 570-6479/2-A	Lab Control Sample	Total/NA	Solid	6010B	6479
LCSD 570-6479/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	6479
570-1903-A-21-C MS	Matrix Spike	Total/NA	Solid	6010B	6479
570-1903-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	6479



# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

## Client Sample ID: B3-30

Date Collected: 07/17/19 08:45

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2098-6

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			4.90 g	5 mL	6236	07/19/19 15:40	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	6348	07/19/19 22:47	MGX6	ECL 2
Instrument ID: GCMSQ										
Total/NA	Prep	3550C			9.90 g	10 mL	6630	07/20/19 15:29	CL	ECL 1
Total/NA	Analysis	8015B		1			6923	07/23/19 09:44	N5Y3	ECL 1
Instrument ID: GC49										
Total/NA	Prep	3050B			1.95 g	100 mL	6479	07/20/19 09:00	TA	ECL 1
Total/NA	Analysis	6010B		1			7719	07/24/19 20:20	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.58 g	100 mL	6617	07/22/19 11:30	TA	ECL 1
Total/NA	Analysis	7471A		1			6905	07/22/19 15:04	I3IN	ECL 1
Instrument ID: HG8										

## Client Sample ID: B3-60

Date Collected: 07/17/19 09:30

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2098-12

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	3550C			10.2 g	10 mL	6863	07/22/19 15:48	N5Y3	ECL 1
Total/NA	Analysis	8015B		1			6997	07/23/19 21:50	UJ3K	ECL 1
Instrument ID: GC48										
Total/NA	Prep	3050B			2.01 g	100 mL	7123	07/23/19 14:18		ECL 1
Total/NA	Analysis	6010B		1			7433	07/24/19 13:29	AMM2	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.62 g	100 mL	6808	07/23/19 11:00	TA	ECL 1
Total/NA	Analysis	7471A		1			7383	07/23/19 19:26	I3IN	ECL 1
Instrument ID: HG8										

### 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-1

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3550C	Ultrasonic Extraction	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2098-6	B3-30	Solid	07/17/19 08:45	07/17/19 17:30	
570-2098-12	B3-60	Solid	07/17/19 09:30	07/17/19 17:30	

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Calscier



570-2098 Chain of Custody

2098 CHAIN OF CUSTODY RECORD

DATE: 7/17/19

PAGE: 1 OF 2

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 1  
For courier service / sample drop off information, contact us2b

LABORATORY CLIENT: <b>Citadel EHS</b>		CLIENT PROJECT NAME / NUMBER: <b>333 S. San Vicente Blvd Phase II</b>		P.O. NO.: <b>1234.1003</b>	
ADDRESS: <b>1725 Victory Blvd</b>		PROJECT CONTACT: <b>Mike Pendergrass</b> <b>mpendergrass@citadelehs.com</b>		SAMPLER(S): (PRINT) <b>Megan Roughan</b>	
CITY: <b>Glendale</b>	STATE: <b>CA</b>	ZIP: <b>91201</b>			
TEL: <b>818-246-2707</b>	E-MAIL: <b>mpendergrass@citadelehs.com</b>				

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain <input type="checkbox"/> EPA <input type="checkbox"/> BQSM	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6						
		DATE	TIME																									
1	B3-5	7/17/19	0810	Soil	1	X						X									X							
2	B3-10		0815			X						X									X							
3	B3-15		0825			X						X									X							HOLD
4	B3-20		0830			X						X									X							
5	B3-25		0835			X						X									X							
6	B3-30		0845			X						X									X							
7	B3-35		0855			X						X									X							
8	B3-40		0900			X						X									X							HOLD
9	B3-45		0910			X						X									X							
10	B3-50		0920			X						X									X							

Relinquished by: (Signature) <i>Morgan Ryle</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/17/19	Time: 11:05
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] EC</i>	Date: 7/17/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

3013.2 sec





Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us 26 sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD 2098

WO# / LAB USE ONLY

DATE: 7/17/19

PAGE: 2 OF 2

LABORATORY CLIENT: <b>Citadel EHS</b>		CLIENT PROJECT NAME / NUMBER: <b>1234.1003</b>		333 S. San Vicente Blvd Phase II	P.O. NO.: <b>1234.1003</b>
ADDRESS: <b>1725 Victory Blvd</b>		PROJECT CONTACT: <b>Mike Pendergrass</b>			SAMPLER(S): (PRINT) <b>Megan Roughan</b>
CITY: <b>Glendale</b>		STATE: <b>CA</b>	ZIP: <b>91201</b>	<b>mpendergrass@citadelehs.com</b>	
TEL: <b>818-246-2707</b>	E-MAIL: <b>mpendergrass@citadelehs.com</b>				

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  
  24 HR  
  48 HR  
  72 HR  
  5 DAYS  
  STANDARD

COELT EDF  
 GLOBAL ID: \_\_\_\_\_  
 LOG CODE: \_\_\_\_\_

SPECIAL INSTRUCTIONS: **Please hold all samples except B3-30 and B3-60**

REQUESTED ANALYSES

Please check box or fill in blank as needed.																														
LAB USE ONLY	SAMPLE ID	DATE	TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Char. <input type="checkbox"/> 8015-M	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6								
11	B3-55	7/17/19		soil	1	X						X									X									HOLD
12	B3-60					X						X									X									
13	B3-GW	7/17/19		water	3		X							X																HOLD

Relinquished by: (Signature)		Received by: (Signature/Affiliation)		Date:	<u>7/17/19</u>	Time:	<u>11:05</u>
Relinquished by: (Signature)		Received by: (Signature/Affiliation)		Date:	<u>7/17/19</u>	Time:	<u>1730</u>
Relinquished by: (Signature)		Received by: (Signature/Affiliation)		Date:		Time:	

3.0 / 3.2 sec

06/02/14 Revision

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7/29/2019





# Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2098-1

**Login Number: 2098**

**List Source: Eurofins Calscience**

**List Number: 1**

**Creator: Castro, Joy**

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.	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.	False	No date or time on COC, logged in per container labels.
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	

## ANALYTICAL REPORT

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

Laboratory Job ID: 570-2098-3

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



---

Authorized for release by:  
7/31/2019 8:08:56 PM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

### 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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-3

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## Job ID: 570-2098-3

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### Laboratory: Eurofins Calscience LLC

#### Narrative

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#### Job Narrative 570-2098-3

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/17/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

#### Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: B3-55 (570-2098-11), B3-60 (570-2098-12) and B3-GW (570-2098-13). Collection time taken from sample labels.

#### GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-8686 and analytical batch 570-8685 were outside control limits: (570-2884-B-1-B MS) and (570-2884-B-1-C MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

#### VOA Prep

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

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

**Client Sample ID: B3-10**

**Lab Sample ID: 570-2098-2**

No Detections.

**Client Sample ID: B3-20**

**Lab Sample ID: 570-2098-4**

No Detections.

**Client Sample ID: B3-40**

**Lab Sample ID: 570-2098-8**

No Detections.

**Client Sample ID: B3-50**

**Lab Sample ID: 570-2098-10**

No Detections.

**Client Sample ID: B3-60**

**Lab Sample ID: 570-2098-12**

No Detections.

- 1
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This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-10**  
**Date Collected: 07/17/19 08:15**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Benzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Bromobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Bromochloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Bromodichloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Bromoform	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Bromomethane	ND		25	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
2-Butanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Carbon disulfide	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Chlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Chloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Chloroform	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Chloromethane	ND		25	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Dibromochloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Dibromomethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Ethanol	ND		250	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Ethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
2-Hexanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Isopropylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Methylene Chloride	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
m,p-Xylene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Naphthalene	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
n-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
N-Propylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
o-Xylene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-10**  
**Date Collected: 07/17/19 08:15**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Tetrachloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Toluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Trichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Trichlorofluoromethane	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Vinyl acetate	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:25	1
Vinyl chloride	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120	07/30/19 14:29	07/30/19 16:25	1
Dibromofluoromethane	102		79 - 133	07/30/19 14:29	07/30/19 16:25	1
1,2-Dichloroethane-d4 (Surr)	111		71 - 155	07/30/19 14:29	07/30/19 16:25	1
Toluene-d8 (Surr)	99		80 - 120	07/30/19 14:29	07/30/19 16:25	1

**Client Sample ID: B3-20**  
**Date Collected: 07/17/19 08:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Benzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Bromobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Bromochloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Bromodichloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Bromoform	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Bromomethane	ND		25	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
2-Butanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Carbon disulfide	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Chlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Chloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Chloroform	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Chloromethane	ND		25	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-20**  
**Date Collected: 07/17/19 08:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Dibromochloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Dibromomethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Ethanol	ND		250	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Ethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
2-Hexanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Isopropylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Methylene Chloride	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
m,p-Xylene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Naphthalene	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
n-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
N-Propylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
o-Xylene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Styrene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Tetrachloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Toluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Trichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Trichlorofluoromethane	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-20**  
**Date Collected: 07/17/19 08:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Vinyl acetate	ND		51	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
Vinyl chloride	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 16:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>4-Bromofluorobenzene (Surr)</i>	95		80 - 120			07/30/19 14:29	07/30/19 16:51	1
<i>Dibromofluoromethane</i>	97		79 - 133			07/30/19 14:29	07/30/19 16:51	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		71 - 155			07/30/19 14:29	07/30/19 16:51	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120			07/30/19 14:29	07/30/19 16:51	1

**Client Sample ID: B3-40**  
**Date Collected: 07/17/19 09:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Benzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Bromobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Bromochloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Bromodichloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Bromoform	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Bromomethane	ND		26	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
2-Butanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Carbon disulfide	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Chlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Chloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Chloroform	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Chloromethane	ND		26	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Dibromochloromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Dibromomethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:17	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-40**  
**Date Collected: 07/17/19 09:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		260	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Ethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
2-Hexanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Isopropylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Methylene Chloride	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
m,p-Xylene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Naphthalene	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
n-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
N-Propylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
o-Xylene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Styrene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Tetrachloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Toluene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Trichloroethene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Trichlorofluoromethane	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Vinyl acetate	ND		51	ug/Kg		07/30/19 14:29	07/30/19 17:17	1
Vinyl chloride	ND		5.1	ug/Kg		07/30/19 14:29	07/30/19 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120	07/30/19 14:29	07/30/19 17:17	1
Dibromofluoromethane	98		79 - 133	07/30/19 14:29	07/30/19 17:17	1
1,2-Dichloroethane-d4 (Surr)	97		71 - 155	07/30/19 14:29	07/30/19 17:17	1
Toluene-d8 (Surr)	100		80 - 120	07/30/19 14:29	07/30/19 17:17	1

**Client Sample ID: B3-50**  
**Date Collected: 07/17/19 09:20**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Benzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-50**  
**Date Collected: 07/17/19 09:20**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Bromoform	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Bromomethane	ND		25	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
2-Butanone	ND		50	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Chloroform	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Chloromethane	ND		25	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Ethanol	ND		250	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
2-Hexanone	ND		50	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Naphthalene	ND		50	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Styrene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 17:43	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 17:43	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-50**  
**Date Collected: 07/17/19 09:20**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		50	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
tert-Butylbenzene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
Tetrachloroethene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
Toluene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
Trichloroethene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
Trichlorofluoromethane	ND		50	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
Vinyl acetate	ND		50	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1
Vinyl chloride	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	99		80 - 120	07/30/19 14:29	07/30/19 17:43	1
<i>Dibromofluoromethane</i>	101		79 - 133	07/30/19 14:29	07/30/19 17:43	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	106		71 - 155	07/30/19 14:29	07/30/19 17:43	1
<i>Toluene-d8 (Surr)</i>	99		80 - 120	07/30/19 14:29	07/30/19 17:43	1

**Client Sample ID: B3-60**  
**Date Collected: 07/17/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Benzene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Bromobenzene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Bromochloromethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Bromodichloromethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Bromoform	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Bromomethane	ND		25	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
2-Butanone	ND		50	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Carbon disulfide	ND		50	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Carbon tetrachloride	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Chlorobenzene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Chloroethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Chloroform	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Chloromethane	ND		25	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
2-Chlorotoluene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
4-Chlorotoluene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1
Dibromochloromethane	ND		5.0	ug/Kg	-	07/30/19 14:29	07/30/19 18:08	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-60**  
**Date Collected: 07/17/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Ethanol	ND		250	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
2-Hexanone	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Naphthalene	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Styrene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Toluene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-3

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

**Client Sample ID: B3-60**  
**Date Collected: 07/17/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2098-12**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 14:29	07/30/19 18:08	1
<b>Surrogate</b>						<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>4-Bromofluorobenzene (Surr)</i>	100		80 - 120			07/30/19 14:29	07/30/19 18:08	1
<i>Dibromofluoromethane</i>	103		79 - 133			07/30/19 14:29	07/30/19 18:08	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		71 - 155			07/30/19 14:29	07/30/19 18:08	1
<i>Toluene-d8 (Surr)</i>	102		80 - 120			07/30/19 14:29	07/30/19 18:08	1

# Surrogate Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Matrix: Solid**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(80-120)	(79-133)	(71-155)	(80-120)
570-2098-2	B3-10	99	102	111	99
570-2098-4	B3-20	95	97	100	100
570-2098-8	B3-40	95	98	97	100
570-2098-10	B3-50	99	101	106	99
570-2098-12	B3-60	100	103	104	102
570-2884-B-1-B MS	Matrix Spike	105	108	110	98
570-2884-B-1-C MSD	Matrix Spike Duplicate	99	105	108	101
LCS 570-8686/2-A	Lab Control Sample	102	100	102	101
MB 570-8686/1-A	Method Blank	94	103	105	101

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Lab Sample ID: MB 570-8686/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8685**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8686**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Benzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Bromobenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Bromochloromethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Bromodichloromethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Bromoform	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Bromomethane	ND		25	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
2-Butanone	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Carbon disulfide	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Chlorobenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Chloroethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Chloroform	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Chloromethane	ND		25	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
2-Chlorotoluene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
4-Chlorotoluene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
cis-1,3-Dichloropropene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Dibromochloromethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2-Dibromo-3-Chloropropane	ND		9.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2-Dibromoethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Dibromomethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,3-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,4-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Dichlorodifluoromethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1-Dichloroethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2-Dichloroethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2-Dichloropropane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,3-Dichloropropane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1-Dichloropropene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Di-isopropyl ether (DIPE)	ND		9.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Ethanol	ND		250	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Ethylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Ethyl-t-butyl ether (ETBE)	ND		9.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
2-Hexanone	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Isopropylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Methylene Chloride	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
4-Methyl-2-pentanone	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
m,p-Xylene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Naphthalene	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
n-Butylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
N-Propylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
o-Xylene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
p-Isopropyltoluene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1

Eurofins Calscience LLC

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Lab Sample ID: MB 570-8686/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8685**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8686**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Styrene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Tert-amyl-methyl ether (TAME)	ND		9.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
tert-Butyl alcohol (TBA)	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
tert-Butylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1,1,2-Tetrachloroethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1,2,2-Tetrachloroethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Tetrachloroethene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Toluene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
trans-1,2-Dichloroethene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
trans-1,3-Dichloropropene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2,3-Trichlorobenzene	ND		9.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2,4-Trichlorobenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1,2-Trichloroethane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Trichloroethene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Trichlorofluoromethane	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2,3-Trichloropropane	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,2,4-Trimethylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
1,3,5-Trimethylbenzene	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Vinyl acetate	ND		49	ug/Kg		07/30/19 08:27	07/30/19 11:37	1
Vinyl chloride	ND		4.9	ug/Kg		07/30/19 08:27	07/30/19 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	07/30/19 08:27	07/30/19 11:37	1
Dibromofluoromethane	103		79 - 133	07/30/19 08:27	07/30/19 11:37	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 155	07/30/19 08:27	07/30/19 11:37	1
Toluene-d8 (Surr)	101		80 - 120	07/30/19 08:27	07/30/19 11:37	1

**Lab Sample ID: LCS 570-8686/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8685**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8686**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.7	51.46		ug/Kg		101	78 - 120
Carbon tetrachloride	50.7	50.83		ug/Kg		100	49 - 139
Chlorobenzene	50.7	48.75		ug/Kg		96	79 - 120
1,2-Dibromoethane	50.7	48.82		ug/Kg		96	70 - 130
1,2-Dichlorobenzene	50.7	52.75		ug/Kg		104	75 - 120
1,2-Dichloroethane	50.7	53.95		ug/Kg		106	70 - 130
1,1-Dichloroethene	50.7	45.46		ug/Kg		90	74 - 122
Di-isopropyl ether (DIPE)	50.7	47.55		ug/Kg		94	78 - 120
Ethanol	507	452.2		ug/Kg		89	56 - 140
Ethylbenzene	50.7	50.00		ug/Kg		99	76 - 120
Ethyl-t-butyl ether (ETBE)	50.7	44.79		ug/Kg		88	70 - 124
Methyl-t-Butyl Ether (MTBE)	50.7	41.57		ug/Kg		82	70 - 124
m,p-Xylene	101	97.34		ug/Kg		96	70 - 130

Eurofins Calscience LLC



# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

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

**Lab Sample ID: LCS 570-8686/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8685**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8686**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	50.7	48.92		ug/Kg		96	70 - 130
<b>Surrogate</b>							
	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	102		80 - 120				
Dibromofluoromethane	100		79 - 133				
1,2-Dichloroethane-d4 (Surr)	102		71 - 155				
Toluene-d8 (Surr)	101		80 - 120				

**Lab Sample ID: 570-2884-B-1-B MS**  
**Matrix: Solid**  
**Analysis Batch: 8685**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 8686**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.8	44.02		ug/Kg		88	61 - 127
Carbon tetrachloride	ND		49.8	46.56		ug/Kg		93	51 - 135
Chlorobenzene	ND		49.8	42.10		ug/Kg		85	57 - 123
1,2-Dibromoethane	ND		49.8	44.49		ug/Kg		89	64 - 124
1,2-Dichlorobenzene	ND		49.8	35.92		ug/Kg		72	35 - 131
1,2-Dichloroethane	ND		49.8	46.51		ug/Kg		93	70 - 130
1,1-Dichloroethene	ND		49.8	43.13		ug/Kg		87	47 - 143
Di-isopropyl ether (DIPE)	ND		49.8	43.98		ug/Kg		88	57 - 129
Ethanol	ND		498	350.5		ug/Kg		70	17 - 167
Ethylbenzene	ND		49.8	43.47		ug/Kg		87	57 - 129
Ethyl-t-butyl ether (ETBE)	ND		49.8	46.10		ug/Kg		93	55 - 127
Methyl-t-Butyl Ether (MTBE)	ND		49.8	41.35		ug/Kg		83	57 - 123
m,p-Xylene	ND		99.6	82.94		ug/Kg		83	70 - 130
o-Xylene	ND		49.8	41.27		ug/Kg		83	70 - 130
<b>Surrogate</b>									
	<b>MS %Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	105		80 - 120						
Dibromofluoromethane	108		79 - 133						
1,2-Dichloroethane-d4 (Surr)	110		71 - 155						
Toluene-d8 (Surr)	98		80 - 120						

**Lab Sample ID: 570-2884-B-1-C MSD**  
**Matrix: Solid**  
**Analysis Batch: 8685**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 8686**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		50.9	43.27		ug/Kg		85	61 - 127	2	20
Carbon tetrachloride	ND		50.9	42.89		ug/Kg		84	51 - 135	8	29
Chlorobenzene	ND		50.9	38.75		ug/Kg		76	57 - 123	8	20
1,2-Dibromoethane	ND		50.9	43.96		ug/Kg		86	64 - 124	1	20
1,2-Dichlorobenzene	ND		50.9	33.19		ug/Kg		65	35 - 131	8	25
1,2-Dichloroethane	ND		50.9	46.27		ug/Kg		91	70 - 130	1	20
1,1-Dichloroethene	ND		50.9	41.37		ug/Kg		81	47 - 143	4	25
Di-isopropyl ether (DIPE)	ND		50.9	42.16		ug/Kg		83	57 - 129	4	20
Ethanol	ND		509	371.4		ug/Kg		73	17 - 167	6	47

Eurofins Calscience LLC

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-3

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

**Lab Sample ID: 570-2884-B-1-C MSD**

**Matrix: Solid**

**Analysis Batch: 8685**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 8686**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Ethylbenzene	ND		50.9	38.93		ug/Kg		76	57 - 129	11	22
Ethyl-t-butyl ether (ETBE)	ND		50.9	44.20		ug/Kg		87	55 - 127	4	20
Methyl-t-Butyl Ether (MTBE)	ND		50.9	41.43		ug/Kg		81	57 - 123	0	21
m,p-Xylene	ND		102	73.59		ug/Kg		72	70 - 130	12	20
o-Xylene	ND		50.9	36.58		ug/Kg		72	70 - 130	12	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane	105		79 - 133
1,2-Dichloroethane-d4 (Surr)	108		71 - 155
Toluene-d8 (Surr)	101		80 - 120

# QC Association Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

## GC/MS VOA

### Analysis Batch: 8685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-2	B3-10	Total/NA	Solid	8260B	8686
570-2098-4	B3-20	Total/NA	Solid	8260B	8686
570-2098-8	B3-40	Total/NA	Solid	8260B	8686
570-2098-10	B3-50	Total/NA	Solid	8260B	8686
570-2098-12	B3-60	Total/NA	Solid	8260B	8686
MB 570-8686/1-A	Method Blank	Total/NA	Solid	8260B	8686
LCS 570-8686/2-A	Lab Control Sample	Total/NA	Solid	8260B	8686
570-2884-B-1-B MS	Matrix Spike	Total/NA	Solid	8260B	8686
570-2884-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	8686

### Prep Batch: 8686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2098-2	B3-10	Total/NA	Solid	5030C	
570-2098-4	B3-20	Total/NA	Solid	5030C	
570-2098-8	B3-40	Total/NA	Solid	5030C	
570-2098-10	B3-50	Total/NA	Solid	5030C	
570-2098-12	B3-60	Total/NA	Solid	5030C	
MB 570-8686/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-8686/2-A	Lab Control Sample	Total/NA	Solid	5030C	
570-2884-B-1-B MS	Matrix Spike	Total/NA	Solid	5030C	
570-2884-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

## Client Sample ID: B3-10

Date Collected: 07/17/19 08:15

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2098-2

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			4.91 g	5 mL	8686	07/30/19 14:29	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8685	07/30/19 16:25	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B3-20

Date Collected: 07/17/19 08:30

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2098-4

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			4.94 g	5 mL	8686	07/30/19 14:29	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8685	07/30/19 16:51	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B3-40

Date Collected: 07/17/19 09:00

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2098-8

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			4.88 g	5 mL	8686	07/30/19 14:29	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8685	07/30/19 17:17	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B3-50

Date Collected: 07/17/19 09:20

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2098-10

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			5.01 g	5 mL	8686	07/30/19 14:29	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8685	07/30/19 17:43	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B3-60

Date Collected: 07/17/19 09:30

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2098-12

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			4.96 g	5 mL	8686	07/30/19 14:29	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8685	07/30/19 18:08	BE5H	ECL 2
Instrument ID: GCMSLL										

### Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2098-3

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
5030C	Purge and Trap	SW846	ECL 2

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494





# Sample Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2098-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2098-2	B3-10	Solid	07/17/19 08:15	07/17/19 17:30	
570-2098-4	B3-20	Solid	07/17/19 08:30	07/17/19 17:30	
570-2098-8	B3-40	Solid	07/17/19 09:00	07/17/19 17:30	
570-2098-10	B3-50	Solid	07/17/19 09:20	07/17/19 17:30	
570-2098-12	B3-60	Solid	07/17/19 09:30	07/17/19 17:30	

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## Donald Burley

---

**From:** Megan Roughan <mroughan@citadelehs.com>  
**Sent:** Monday, July 29, 2019 5:41 PM  
**To:** Donald Burley; Mike Pendergrass  
**Subject:** RE: Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vicente Blvd Phase II

EXTERNAL EMAIL\*

Hi Don,

Thank you for the lab reports.

I would like to request the additional analysis be run:

VOCs by EPA Method 8260B for these samples from the following borings.

### Boring 1

- B1-5
- B1-15
- B1-25
- B1-35
- B1-45
- B1-55

### Boring 2

- B2-5
- B2-10
- B2-20
- B2-30
- B2-45
- B2-55

### Boring 3

- B3-10
- B3-20
- B3-30
- B3-40
- B3-50
- B3-60

### Boring 4

- B4-5
- B4-15
- B4-25
- B4-30
- B4-40
- B4-50

### Boring 5

- B5-10
- B5-20
- B5-30

- B5-40
- B5-50
- B5-60

Boring 6

- B6-5
- B6-15
- B6-25
- B6-35
- B6-40
- B6-50

These samples can be analyzed at standard turnaround time. Please let me know if there's any issue.

Thank you,  
Meg

**Megan Roughan**

Staff Engineer, Engineering and Environmental Sciences



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Glendale | Costa Mesa | Valencia

**From:** Don Burley <[noreply@eurofinslimsservices.com](mailto:noreply@eurofinslimsservices.com)>

**Sent:** Monday, July 29, 2019 5:11 PM

**To:** Mike Pendergrass <[MPendergrass@citadelehs.com](mailto:MPendergrass@citadelehs.com)>; Megan Roughan <[mroughan@citadelehs.com](mailto:mroughan@citadelehs.com)>

**Subject:** Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vincente Blvd Phase II

Hello,

Attached please find the report and EDD files for job 570-2098-1; 333 S. San Vincente Blvd Phase II

Please feel free to contact me if you have any questions.

Thank you.

**Don Burley**

Project Manager

Eurofins Calscience LLC

Phone: 714-895-5494

E-mail: [donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

[www.EurofinsUS.com](http://www.EurofinsUS.com)





Calscier



570-2098 Chain of Custody

2098 CHAIN OF CUSTODY RECORD

DATE: 7/17/19

PAGE: 1 OF 2

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 1  
For courier service / sample drop off information, contact us26

LABORATORY CLIENT: <b>Citadel EHS</b>		CLIENT PROJECT NAME / NUMBER: <b>333 S. San Vicente Blvd Phase II</b>		P.O. NO.: <b>1234.1003</b>
ADDRESS: <b>1725 Victory Blvd</b>		PROJECT CONTACT: <b>Mike Pendergrass</b>		SAMPLER(S): (PRINT) <b>Megan Roughan</b>
CITY: <b>Glendale</b>	STATE: <b>CA</b>	ZIP: <b>91201</b>	E-MAIL: <b>mpendergrass@citadelehs.com</b>	
TEL: <b>818-246-2707</b>	REQUESTED ANALYSES			

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF

GLOBAL ID: \_\_\_\_\_ LOG CODE: \_\_\_\_\_

SPECIAL INSTRUCTIONS:

**Please hold all samples except B3-30 and B3-60**

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon <input checked="" type="checkbox"/> EPA <input checked="" type="checkbox"/> B15M	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
1	B3-5	7/17/19	0810	Soil	1	X						X									X	
2	B3-10		0815			X						X									X	
3	B3-15		0825			X						X									X	HOLD
4	B3-20		0830			X						X									X	
5	B3-25		0835			X						X									X	
6	B3-30		0845			X						X									X	
7	B3-35		0855			X						X									X	
8	B3-40		0900			X						X									X	HOLD
9	B3-45		0910			X						X									X	
10	B3-50		0920			X						X									X	

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/17/19	Time: 11:05
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] EC</i>	Date: 7/17/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:



Calscience

2098  
CHAIN OF CUSTODY RECORD

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For courier service / sample drop off information, contact us 26 sales@eurofinsus.com or call us.

WO# / LAB USE ONLY

DATE: 7/17/19  
PAGE: 2 OF 2

LABORATORY CLIENT: Citadel EHS  
ADDRESS: 1725 Victory Blvd  
CITY: Glendale STATE: CA ZIP: 91201  
TEL: 818-246-2707 E-MAIL: mpendergross@citadelehs.com

CLIENT PROJECT NAME / NUMBER: 1234.1003 333 S. San Vicente Blvd Phase II  
P.O. NO.: 1234.1003  
PROJECT CONTACT: Mike Pendergrass mpendergross@citadelehs.com  
SAMPLER(S): (PRINT) Megan Roughan

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:  
Please hold all samples except B3-30 and B3-60

Please check box or fill in blank as needed.

TPH(g) <input type="checkbox"/> GRO	TPH(g) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain <input type="checkbox"/> 8015-M	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6			
			X									X				HOLD
			X									X				
				X			X									HOLD

Relinquished by: (Signature) [Signature]  
Relinquished by: (Signature) [Signature]  
Relinquished by: (Signature) [Signature]

Received by: (Signature/Affiliation) [Signature] Date: 7/17/19 Time: 11:05  
Received by: (Signature/Affiliation) [Signature] Date: 7/17/19 Time: 1730  
Received by: (Signature/Affiliation) [Signature] Date: Time:

3.0 / 3.2 sec



# Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2098-3

**Login Number: 2098**

**List Source: Eurofins Calscience**

**List Number: 1**

**Creator: Castro, Joy**

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.	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.	False	No date or time on COC, logged in per container labels.
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	





## ANALYTICAL REPORT

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

Laboratory Job ID: 570-2099-1

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



---

Authorized for release by:  
7/29/2019 5:13:07 PM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
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.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2099-1

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**Job ID: 570-2099-1**

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**Laboratory: Eurofins Calscience LLC**

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## Narrative

### Job Narrative 570-2099-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/17/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

#### 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.

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# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

## Client Sample ID: B1-20

## Lab Sample ID: 570-2099-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25.0		0.735	mg/Kg	1		6010B	Total/NA
Barium	69.0	F1	0.490	mg/Kg	1		6010B	Total/NA
Beryllium	0.579		0.245	mg/Kg	1		6010B	Total/NA
Cadmium	1.45		0.490	mg/Kg	1		6010B	Total/NA
Chromium	19.9		0.245	mg/Kg	1		6010B	Total/NA
Cobalt	6.36		0.245	mg/Kg	1		6010B	Total/NA
Copper	13.9		0.490	mg/Kg	1		6010B	Total/NA
Lead	1.45		0.490	mg/Kg	1		6010B	Total/NA
Nickel	15.3		0.245	mg/Kg	1		6010B	Total/NA
Vanadium	37.7		0.245	mg/Kg	1		6010B	Total/NA
Zinc	31.3		0.980	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B1-40

## Lab Sample ID: 570-2099-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	28.9		0.758	mg/Kg	1		6010B	Total/NA
Barium	110		0.505	mg/Kg	1		6010B	Total/NA
Beryllium	1.05		0.253	mg/Kg	1		6010B	Total/NA
Cadmium	0.579		0.505	mg/Kg	1		6010B	Total/NA
Chromium	35.9		0.253	mg/Kg	1		6010B	Total/NA
Cobalt	10.8		0.253	mg/Kg	1		6010B	Total/NA
Copper	19.2		0.505	mg/Kg	1		6010B	Total/NA
Lead	1.69		0.505	mg/Kg	1		6010B	Total/NA
Nickel	22.3		0.253	mg/Kg	1		6010B	Total/NA
Vanadium	86.4		0.253	mg/Kg	1		6010B	Total/NA
Zinc	58.8		1.01	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B2-35

## Lab Sample ID: 570-2099-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.60		0.761	mg/Kg	1		6010B	Total/NA
Barium	70.9		0.508	mg/Kg	1		6010B	Total/NA
Beryllium	0.546		0.254	mg/Kg	1		6010B	Total/NA
Chromium	26.3		0.254	mg/Kg	1		6010B	Total/NA
Cobalt	5.54		0.254	mg/Kg	1		6010B	Total/NA
Copper	13.5		0.508	mg/Kg	1		6010B	Total/NA
Lead	0.999		0.508	mg/Kg	1		6010B	Total/NA
Nickel	14.5		0.254	mg/Kg	1		6010B	Total/NA
Vanadium	36.5		0.254	mg/Kg	1		6010B	Total/NA
Zinc	36.3		1.02	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B2-45

## Lab Sample ID: 570-2099-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.66		0.746	mg/Kg	1		6010B	Total/NA
Barium	38.7		0.498	mg/Kg	1		6010B	Total/NA
Beryllium	0.320		0.249	mg/Kg	1		6010B	Total/NA
Chromium	16.3		0.249	mg/Kg	1		6010B	Total/NA
Cobalt	2.76		0.249	mg/Kg	1		6010B	Total/NA
Copper	7.83		0.498	mg/Kg	1		6010B	Total/NA
Lead	1.03		0.498	mg/Kg	1		6010B	Total/NA
Nickel	8.32		0.249	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

**Client Sample ID: B2-45 (Continued)**

**Lab Sample ID: 570-2099-20**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	20.4		0.249	mg/Kg	1		6010B	Total/NA
Zinc	18.7		0.995	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

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

**Client Sample ID: B1-20**  
**Date Collected: 07/16/19 09:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C7 as C7	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C8 as C8	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C9-C10	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C11-C12	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C13-C14	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C15-C16	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C17-C18	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C19-C20	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C21-C22	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C23-C24	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C25-C28	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C29-C32	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C33-C36	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C37-C40	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C41-C44	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
C6-C44	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 18:44	1
<b>Surrogate</b>								
<i>n</i> -Octacosane (Surr)	85		61 - 145			07/25/19 17:20	07/26/19 18:44	1

**Client Sample ID: B1-40**  
**Date Collected: 07/16/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C7 as C7	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C8 as C8	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C9-C10	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C11-C12	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C13-C14	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C15-C16	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C17-C18	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C19-C20	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C21-C22	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C23-C24	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C25-C28	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C29-C32	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C33-C36	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C37-C40	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C41-C44	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
C6-C44	ND		5.0	mg/Kg	-	07/25/19 17:20	07/26/19 19:05	1
<b>Surrogate</b>								
<i>n</i> -Octacosane (Surr)	80		61 - 145			07/25/19 17:20	07/26/19 19:05	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

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

**Client Sample ID: B2-35**  
**Date Collected: 07/16/19 12:50**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-19**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C7 as C7	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C8 as C8	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C9-C10	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C11-C12	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C13-C14	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C15-C16	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C17-C18	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C19-C20	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C21-C22	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C23-C24	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C25-C28	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C29-C32	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C33-C36	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C37-C40	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C41-C44	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1
C6-C44	ND		4.9	mg/Kg		07/25/19 17:20	07/26/19 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	81		61 - 145	07/25/19 17:20	07/26/19 19:28	1

**Client Sample ID: B2-45**  
**Date Collected: 07/16/19 13:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-20**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C7 as C7	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C8 as C8	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C9-C10	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C11-C12	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C13-C14	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C15-C16	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C17-C18	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C19-C20	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C21-C22	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C23-C24	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C25-C28	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C29-C32	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C33-C36	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C37-C40	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C41-C44	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1
C6-C44	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	79		61 - 145	07/25/19 17:20	07/26/19 19:49	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: B1-20**  
**Date Collected: 07/16/19 09:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1 L	0.735	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Arsenic</b>	<b>25.0</b>		0.735	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Barium</b>	<b>69.0</b>	<b>F1</b>	0.490	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Beryllium</b>	<b>0.579</b>		0.245	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Cadmium</b>	<b>1.45</b>		0.490	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Chromium</b>	<b>19.9</b>		0.245	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Cobalt</b>	<b>6.36</b>		0.245	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Copper</b>	<b>13.9</b>		0.490	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Lead</b>	<b>1.45</b>		0.490	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
Molybdenum	ND		0.245	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Nickel</b>	<b>15.3</b>		0.245	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
Selenium	ND		0.735	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
Silver	ND		0.245	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
Thallium	ND		0.735	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Vanadium</b>	<b>37.7</b>		0.245	mg/Kg		07/22/19 16:11	07/25/19 16:26	1
<b>Zinc</b>	<b>31.3</b>		0.980	mg/Kg		07/22/19 16:11	07/25/19 16:26	1

**Client Sample ID: B1-40**  
**Date Collected: 07/16/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.758	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Arsenic</b>	<b>28.9</b>		0.758	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Barium</b>	<b>110</b>		0.505	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Beryllium</b>	<b>1.05</b>		0.253	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Cadmium</b>	<b>0.579</b>		0.505	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Chromium</b>	<b>35.9</b>		0.253	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Cobalt</b>	<b>10.8</b>		0.253	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Copper</b>	<b>19.2</b>		0.505	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Lead</b>	<b>1.69</b>		0.505	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
Molybdenum	ND		0.253	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Nickel</b>	<b>22.3</b>		0.253	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
Selenium	ND	L	0.758	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
Silver	ND		0.253	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
Thallium	ND		0.758	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Vanadium</b>	<b>86.4</b>		0.253	mg/Kg		07/22/19 16:11	07/25/19 16:32	1
<b>Zinc</b>	<b>58.8</b>		1.01	mg/Kg		07/22/19 16:11	07/25/19 16:32	1

**Client Sample ID: B2-35**  
**Date Collected: 07/16/19 12:50**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-19**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.761	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Arsenic</b>	<b>7.60</b>		0.761	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Barium</b>	<b>70.9</b>		0.508	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Beryllium</b>	<b>0.546</b>		0.254	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
Cadmium	ND		0.508	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Chromium</b>	<b>26.3</b>		0.254	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Cobalt</b>	<b>5.54</b>		0.254	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Copper</b>	<b>13.5</b>		0.508	mg/Kg		07/22/19 16:11	07/25/19 16:34	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2099-1

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

**Client Sample ID: B2-35**  
**Date Collected: 07/16/19 12:50**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-19**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>0.999</b>		0.508	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
Molybdenum	ND		0.254	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Nickel</b>	<b>14.5</b>		0.254	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
Selenium	ND		0.761	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
Silver	ND		0.254	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
Thallium	ND		0.761	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Vanadium</b>	<b>36.5</b>		0.254	mg/Kg		07/22/19 16:11	07/25/19 16:34	1
<b>Zinc</b>	<b>36.3</b>		1.02	mg/Kg		07/22/19 16:11	07/25/19 16:34	1

**Client Sample ID: B2-45**  
**Date Collected: 07/16/19 13:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-20**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Arsenic</b>	<b>8.66</b>		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Barium</b>	<b>38.7</b>		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Beryllium</b>	<b>0.320</b>		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
Cadmium	ND		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Chromium</b>	<b>16.3</b>		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Cobalt</b>	<b>2.76</b>		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Copper</b>	<b>7.83</b>		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Lead</b>	<b>1.03</b>		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
Molybdenum	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Nickel</b>	<b>8.32</b>		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
Selenium	ND		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
Silver	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
Thallium	ND		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Vanadium</b>	<b>20.4</b>		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:36	1
<b>Zinc</b>	<b>18.7</b>		0.995	mg/Kg		07/22/19 16:11	07/25/19 16:36	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2099-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: B1-20**  
**Date Collected: 07/16/19 09:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-4**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0806	mg/Kg		07/23/19 16:15	07/23/19 19:35	1

**Client Sample ID: B1-40**  
**Date Collected: 07/16/19 09:30**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0862	mg/Kg		07/23/19 16:15	07/23/19 19:42	1

**Client Sample ID: B2-35**  
**Date Collected: 07/16/19 12:50**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-19**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0862	mg/Kg		07/23/19 16:15	07/23/19 19:44	1

**Client Sample ID: B2-45**  
**Date Collected: 07/16/19 13:00**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-20**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0820	mg/Kg		07/23/19 16:15	07/23/19 19:51	1

# Surrogate Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

**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)
570-2099-4	B1-20	85
570-2099-4 MS	B1-20	84
570-2099-4 MSD	B1-20	81
570-2099-8	B1-40	80
570-2099-19	B2-35	81
570-2099-20	B2-45	79
LCS 570-7857/2-A	Lab Control Sample	80
MB 570-7857/1-A	Method Blank	79

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2099-1

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

**Lab Sample ID: MB 570-7857/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8044**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 7857**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C7 as C7	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C8 as C8	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C9-C10	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C11-C12	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C13-C14	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C15-C16	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C17-C18	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C19-C20	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C21-C22	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C23-C24	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C25-C28	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C29-C32	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C33-C36	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C37-C40	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C41-C44	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1
C6-C44	ND		5.0	mg/Kg		07/25/19 17:20	07/26/19 16:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	79		61 - 145	07/25/19 17:20	07/26/19 16:10	1

**Lab Sample ID: LCS 570-7857/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8044**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 7857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	400	357.5		mg/Kg		89	67 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	80		61 - 145

**Lab Sample ID: 570-2099-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 8044**

**Client Sample ID: B1-20**  
**Prep Type: Total/NA**  
**Prep Batch: 7857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		402	392.8		mg/Kg		98	33 - 153

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	84		61 - 145



# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

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

**Lab Sample ID: 570-2099-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 8044**

**Client Sample ID: B1-20**  
**Prep Type: Total/NA**  
**Prep Batch: 7857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		400	386.8		mg/Kg		97	33 - 153	2	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	81		61 - 145								

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-6869/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7910**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6869**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Arsenic	ND		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Barium	ND		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Beryllium	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Cadmium	ND		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Chromium	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Cobalt	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Copper	ND		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Lead	ND		0.498	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Molybdenum	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Nickel	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Selenium	0.7792		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Silver	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Thallium	ND		0.746	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Vanadium	ND		0.249	mg/Kg		07/22/19 16:11	07/25/19 16:19	1
Zinc	ND		0.995	mg/Kg		07/22/19 16:11	07/25/19 16:19	1

**Lab Sample ID: LCS 570-6869/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7910**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6869**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	24.6	23.91		mg/Kg		97	80 - 120
Arsenic	24.6	23.79		mg/Kg		97	80 - 120
Barium	24.6	27.70		mg/Kg		112	80 - 120
Beryllium	24.6	24.00		mg/Kg		97	80 - 120
Cadmium	24.6	25.64		mg/Kg		104	80 - 120
Chromium	24.6	24.95		mg/Kg		101	80 - 120
Cobalt	24.6	26.58		mg/Kg		108	80 - 120
Copper	24.6	25.25		mg/Kg		103	80 - 120
Lead	24.6	25.66		mg/Kg		104	80 - 120
Molybdenum	24.6	23.96		mg/Kg		97	80 - 120
Nickel	24.6	26.47		mg/Kg		107	80 - 120
Selenium	24.6	23.67		mg/Kg		96	80 - 120
Silver	12.3	11.89		mg/Kg		97	80 - 120
Thallium	24.6	25.48		mg/Kg		103	80 - 120

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

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

**Lab Sample ID: LCS 570-6869/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7910**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6869**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	24.6	24.27		mg/Kg		99	80 - 120
Zinc	24.6	25.11		mg/Kg		102	80 - 120

**Lab Sample ID: 570-2099-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 7910**

**Client Sample ID: B1-20**  
**Prep Type: Total/NA**  
**Prep Batch: 6869**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1 L	25.4	10.86	F1	mg/Kg		43	50 - 115
Arsenic	25.0		25.4	53.21		mg/Kg		111	75 - 125
Barium	69.0	F1	25.4	102.0	F1	mg/Kg		130	75 - 125
Beryllium	0.579		25.4	27.96		mg/Kg		108	75 - 125
Cadmium	1.45		25.4	27.00		mg/Kg		101	75 - 125
Chromium	19.9		25.4	47.56		mg/Kg		109	75 - 125
Cobalt	6.36		25.4	31.44		mg/Kg		99	75 - 125
Copper	13.9		25.4	42.52		mg/Kg		113	75 - 125
Lead	1.45		25.4	26.91		mg/Kg		100	75 - 125
Molybdenum	ND		25.4	23.66		mg/Kg		93	75 - 125
Nickel	15.3		25.4	41.94		mg/Kg		105	75 - 125
Selenium	ND		25.4	24.95		mg/Kg		98	75 - 125
Silver	ND		12.7	13.68		mg/Kg		108	75 - 125
Thallium	ND		25.4	23.51		mg/Kg		93	75 - 125
Vanadium	37.7		25.4	66.68		mg/Kg		114	75 - 125
Zinc	31.3		25.4	57.01		mg/Kg		101	75 - 125

**Lab Sample ID: 570-2099-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 7910**

**Client Sample ID: B1-20**  
**Prep Type: Total/NA**  
**Prep Batch: 6869**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1 L	24.9	9.279	F1	mg/Kg		37	50 - 115	16	20
Arsenic	25.0		24.9	52.89		mg/Kg		112	75 - 125	1	20
Barium	69.0	F1	24.9	100.6	F1	mg/Kg		127	75 - 125	1	20
Beryllium	0.579		24.9	27.65		mg/Kg		109	75 - 125	1	20
Cadmium	1.45		24.9	26.52		mg/Kg		101	75 - 125	2	20
Chromium	19.9		24.9	46.86		mg/Kg		108	75 - 125	2	20
Cobalt	6.36		24.9	30.96		mg/Kg		99	75 - 125	2	20
Copper	13.9		24.9	41.64		mg/Kg		111	75 - 125	2	20
Lead	1.45		24.9	26.34		mg/Kg		100	75 - 125	2	20
Molybdenum	ND		24.9	22.95		mg/Kg		92	75 - 125	3	20
Nickel	15.3		24.9	41.47		mg/Kg		105	75 - 125	1	20
Selenium	ND		24.9	24.27		mg/Kg		98	75 - 125	3	20
Silver	ND		12.4	13.40		mg/Kg		108	75 - 125	2	20
Thallium	ND		24.9	23.18		mg/Kg		93	75 - 125	1	20
Vanadium	37.7		24.9	65.78		mg/Kg		113	75 - 125	1	20
Zinc	31.3		24.9	56.74		mg/Kg		102	75 - 125	0	20

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2099-1

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-6875/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 6875**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0806	mg/Kg		07/23/19 16:15	07/23/19 19:28	1

**Lab Sample ID: LCS 570-6875/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 6875**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.847	0.8297		mg/Kg		98	85 - 121

**Lab Sample ID: LCSD 570-6875/3-A**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 6875**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.847	0.8632		mg/Kg		102	85 - 121	4	10

**Lab Sample ID: 570-2099-4 MS**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: B1-20**  
**Prep Type: Total/NA**  
**Prep Batch: 6875**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.833	0.8106		mg/Kg		92	71 - 137

**Lab Sample ID: 570-2099-4 MSD**  
**Matrix: Solid**  
**Analysis Batch: 7383**

**Client Sample ID: B1-20**  
**Prep Type: Total/NA**  
**Prep Batch: 6875**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.833	0.8810		mg/Kg		101	71 - 137	8	14

# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

## GC Semi VOA

### Prep Batch: 7857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-4	B1-20	Total/NA	Solid	3550C	
570-2099-8	B1-40	Total/NA	Solid	3550C	
570-2099-19	B2-35	Total/NA	Solid	3550C	
570-2099-20	B2-45	Total/NA	Solid	3550C	
MB 570-7857/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-7857/2-A	Lab Control Sample	Total/NA	Solid	3550C	
570-2099-4 MS	B1-20	Total/NA	Solid	3550C	
570-2099-4 MSD	B1-20	Total/NA	Solid	3550C	

### Analysis Batch: 8044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-4	B1-20	Total/NA	Solid	8015B	7857
570-2099-8	B1-40	Total/NA	Solid	8015B	7857
570-2099-19	B2-35	Total/NA	Solid	8015B	7857
570-2099-20	B2-45	Total/NA	Solid	8015B	7857
MB 570-7857/1-A	Method Blank	Total/NA	Solid	8015B	7857
LCS 570-7857/2-A	Lab Control Sample	Total/NA	Solid	8015B	7857
570-2099-4 MS	B1-20	Total/NA	Solid	8015B	7857
570-2099-4 MSD	B1-20	Total/NA	Solid	8015B	7857

## Metals

### Prep Batch: 6869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-4	B1-20	Total/NA	Solid	3050B	
570-2099-8	B1-40	Total/NA	Solid	3050B	
570-2099-19	B2-35	Total/NA	Solid	3050B	
570-2099-20	B2-45	Total/NA	Solid	3050B	
MB 570-6869/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-6869/2-A	Lab Control Sample	Total/NA	Solid	3050B	
570-2099-4 MS	B1-20	Total/NA	Solid	3050B	
570-2099-4 MSD	B1-20	Total/NA	Solid	3050B	

### Prep Batch: 6875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-4	B1-20	Total/NA	Solid	7471A	
570-2099-8	B1-40	Total/NA	Solid	7471A	
570-2099-19	B2-35	Total/NA	Solid	7471A	
570-2099-20	B2-45	Total/NA	Solid	7471A	
MB 570-6875/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-6875/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-6875/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-2099-4 MS	B1-20	Total/NA	Solid	7471A	
570-2099-4 MSD	B1-20	Total/NA	Solid	7471A	

### Analysis Batch: 7383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-4	B1-20	Total/NA	Solid	7471A	6875
570-2099-8	B1-40	Total/NA	Solid	7471A	6875
570-2099-19	B2-35	Total/NA	Solid	7471A	6875
570-2099-20	B2-45	Total/NA	Solid	7471A	6875

Eurofins Calscience LLC

# QC Association Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

## Metals (Continued)

### Analysis Batch: 7383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-6875/1-A	Method Blank	Total/NA	Solid	7471A	6875
LCS 570-6875/2-A	Lab Control Sample	Total/NA	Solid	7471A	6875
LCSD 570-6875/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	6875
570-2099-4 MS	B1-20	Total/NA	Solid	7471A	6875
570-2099-4 MSD	B1-20	Total/NA	Solid	7471A	6875

### Analysis Batch: 7910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-4	B1-20	Total/NA	Solid	6010B	6869
570-2099-8	B1-40	Total/NA	Solid	6010B	6869
570-2099-19	B2-35	Total/NA	Solid	6010B	6869
570-2099-20	B2-45	Total/NA	Solid	6010B	6869
MB 570-6869/1-A	Method Blank	Total/NA	Solid	6010B	6869
LCS 570-6869/2-A	Lab Control Sample	Total/NA	Solid	6010B	6869
570-2099-4 MS	B1-20	Total/NA	Solid	6010B	6869
570-2099-4 MSD	B1-20	Total/NA	Solid	6010B	6869

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

## Client Sample ID: B1-20

Date Collected: 07/16/19 09:00

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-4

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	3550C			9.98 g	10 mL	7857	07/25/19 17:20	UFLU	ECL 1
Total/NA	Analysis	8015B		1			8044	07/26/19 18:44	N5Y3	ECL 1
Instrument ID: GC48										
Total/NA	Prep	3050B			2.04 g	100 mL	6869	07/22/19 16:11	TA	ECL 1
Total/NA	Analysis	6010B		1			7910	07/25/19 16:26	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.62 g	100 mL	6875	07/23/19 16:15	TA	ECL 1
Total/NA	Analysis	7471A		1			7383	07/23/19 19:35	I3IN	ECL 1
Instrument ID: HG8										

## Client Sample ID: B1-40

Date Collected: 07/16/19 09:30

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-8

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	3550C			9.94 g	10 mL	7857	07/25/19 17:20	UFLU	ECL 1
Total/NA	Analysis	8015B		1			8044	07/26/19 19:05	N5Y3	ECL 1
Instrument ID: GC48										
Total/NA	Prep	3050B			1.98 g	100 mL	6869	07/22/19 16:11	TA	ECL 1
Total/NA	Analysis	6010B		1			7910	07/25/19 16:32	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.58 g	100 mL	6875	07/23/19 16:15	TA	ECL 1
Total/NA	Analysis	7471A		1			7383	07/23/19 19:42	I3IN	ECL 1
Instrument ID: HG8										

## Client Sample ID: B2-35

Date Collected: 07/16/19 12:50

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-19

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	3550C			10.2 g	10 mL	7857	07/25/19 17:20	UFLU	ECL 1
Total/NA	Analysis	8015B		1			8044	07/26/19 19:28	N5Y3	ECL 1
Instrument ID: GC48										
Total/NA	Prep	3050B			1.97 g	100 mL	6869	07/22/19 16:11	TA	ECL 1
Total/NA	Analysis	6010B		1			7910	07/25/19 16:34	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.58 g	100 mL	6875	07/23/19 16:15	TA	ECL 1
Total/NA	Analysis	7471A		1			7383	07/23/19 19:44	I3IN	ECL 1
Instrument ID: HG8										

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

**Client Sample ID: B2-45**

**Lab Sample ID: 570-2099-20**

**Date Collected: 07/16/19 13:00**

**Matrix: Solid**

**Date Received: 07/17/19 17:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.1 g	10 mL	7857	07/25/19 17:20	UFLU	ECL 1
Total/NA	Analysis	8015B		1			8044	07/26/19 19:49	N5Y3	ECL 1
Instrument ID: GC48										
Total/NA	Prep	3050B			2.01 g	100 mL	6869	07/22/19 16:11	TA	ECL 1
Total/NA	Analysis	6010B		1			7910	07/25/19 16:36	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.61 g	100 mL	6875	07/23/19 16:15	TA	ECL 1
Total/NA	Analysis	7471A		1			7383	07/23/19 19:51	I3IN	ECL 1
Instrument ID: HG8										

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494





# Accreditation/Certification Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2099-1

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3550C	Ultrasonic Extraction	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



# Sample Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2099-4	B1-20	Solid	07/16/19 09:00	07/17/19 17:30	
570-2099-8	B1-40	Solid	07/16/19 09:30	07/17/19 17:30	
570-2099-19	B2-35	Solid	07/16/19 12:50	07/17/19 17:30	
570-2099-20	B2-45	Solid	07/16/19 13:00	07/17/19 17:30	

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570-2099 Chain of Custody

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CHAIN OF CUSTODY RECORD

2099

DATE: 7/16/2019

PAGE: 1 OF 3

WO # / LAB USE ONLY

LABORATORY CLIENT: **Citadel EHS**

ADDRESS: **1725 Victory Blvd**

CITY: **Glendale** STATE: **CA** ZIP: **91201**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**  
**1234.1003**

P.O. NO.: **1234.1003**

PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**

SAMPLER(S): (PRINT)  
**Megan Rouhan**

TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

Please check box or fill in blank as needed.

SPECIAL INSTRUCTIONS:  
Please hold all samples except for B1-20, B1-40, B2-35, and B2-45

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH <input checked="" type="checkbox"/> Full Carbon Chain <sup>EPA</sup> <sub>8015M</sub>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X <sub>1A</sub>	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
1	B1-5	7/16/19	0845	Soil	1	X						X										X	
2	B1-10		0850			X						X										X	
3	B1-15		0855			X						X										X	
4	B1-20		0900			X						X										X	
5	B1-25		0905			X						X										X	
6	B1-30		0915			X						X										X	
7	B1-35		0925			X						X										X	
8	B1-40		0930			X						X										X	
9	B1-45		0940			X						X										X	
10	B1-50		0945			X						X										X	

Relinquished by: (Signature) <i>Megan Rouhan</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/17/2019	Time: 11:05
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] EC</i>	Date: 7/17/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

3-0/3.2 SC6





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WO # / LAB USE ONLY

DATE: 7/16/2019  
PAGE: 2 OF 3

LABORATORY CLIENT: Citadel EHS  
ADDRESS: 1725 Victory Blvd  
CITY: Glendale STATE: CA ZIP: 91201  
TEL: 818-246-2707 E-MAIL: mpendergrass@citadelehs.com

CLIENT PROJECT NAME / NUMBER: 333 S. San Vicente Blvd Phase II  
P.O. NO.: 1234.1003  
PROJECT CONTACT: Mike Pendergrass  
mpendergrass@citadelehs.com  
SAMPLER(S): (PRINT) Megan Roughan

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:  
Please hold all samples except for B1-20, B1-40, B2-35, and B2-45

Please check box or fill in blank as needed.

TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain EPA BotSH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010747X <input type="checkbox"/> 6020747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	
			x									x	

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
	B1-55	7/16/19	0950	Soil	1	x		
	B1-60		0955			x		
	B2-5		1210			x		
	B2-10		1215			x		
	B2-15		1220			x		
	B2-20		1225			x		
	B2-25		1235			x		
	B2-30		1240			x		
	B2-35		1250			x		
	B2-45		1300			x		

HOLD

Relinquished by: (Signature) <i>Megan Roughan</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/17/2019	Time: 11:05
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] EC</i>	Date: 7/17/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

3.0/3.2 SGC



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2099  
CHAIN OF CUSTODY RECORD

DATE: 7/16/2019  
PAGE: 3 OF 3

WO # / LAB USE ONLY

LABORATORY CLIENT: Citadel EHS  
ADDRESS: 1725 Victory Blvd  
CITY: Glendale STATE: CA ZIP: 91201  
TEL: 818-246-2707 E-MAIL: mpendergrass@citadelehs.com

CLIENT PROJECT NAME / NUMBER: 333 S. San Vicente Blvd Phase II  
1234-1003  
PROJECT CONTACT: Mike Pendergrass  
mpendergrass@citadelehs.com  
P.O. NO.: 1234.1003  
SAMPLER(S): (PRINT) Megan Roughan

REQUESTED ANALYSES

Please check box or fill in blank as needed.

Unpreserved	Preserved (HCl)	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain EPA 8015M	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>								
	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>								

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:  
Please hold all samples except for B1-20, B1-40, B2-35, and B2-45

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
21	B2-50	7/16/19	1305	Soil	1
22	B2-55		1310		
23	B2-60		1325		
24	B1-GW	7/16/19	0915	water	3
25	B2-GW		1230		

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 7/17/2019	Time: 11:05
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 7/17/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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7/29/2019

3-d/3.2 sec



# Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2099-1

**Login Number: 2099**

**List Number: 1**

**Creator: Castro, Joy**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with acppt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## ANALYTICAL REPORT

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

Laboratory Job ID: 570-2099-2

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



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Authorized for release by:  
7/31/2019 7:51:33 PM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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**Job ID: 570-2099-2**

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**Laboratory: Eurofins Calscience LLC**

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**Narrative**

**Job Narrative  
570-2099-2**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/17/2019 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

**GC/MS VOA**

Method(s) 8260B: The laboratory control sample (LCS) for 570-8675 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

**VOA Prep**

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

- 1
- 2
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- 13
- 14
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# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

<b>Client Sample ID: B1-5</b>	<b>Lab Sample ID: 570-2099-1</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B1-15</b>	<b>Lab Sample ID: 570-2099-3</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B1-25</b>	<b>Lab Sample ID: 570-2099-5</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B1-35</b>	<b>Lab Sample ID: 570-2099-7</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B1-45</b>	<b>Lab Sample ID: 570-2099-9</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B1-55</b>	<b>Lab Sample ID: 570-2099-11</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B2-5</b>	<b>Lab Sample ID: 570-2099-13</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B2-10</b>	<b>Lab Sample ID: 570-2099-14</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B2-20</b>	<b>Lab Sample ID: 570-2099-16</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B2-30</b>	<b>Lab Sample ID: 570-2099-18</b>
<input type="checkbox"/> No Detections.	
<b>Client Sample ID: B2-55</b>	<b>Lab Sample ID: 570-2099-22</b>
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-5**  
**Date Collected: 07/16/19 08:45**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Benzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Bromobenzene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Bromochloromethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Bromodichloromethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Bromoform	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Bromomethane	ND		24	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
2-Butanone	ND	F1	49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Carbon disulfide	ND		49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Chlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Chloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Chloroform	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Chloromethane	ND		24	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
2-Chlorotoluene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
4-Chlorotoluene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
cis-1,3-Dichloropropene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Dibromochloromethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2-Dibromo-3-Chloropropane	ND	F1	9.8	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2-Dibromoethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Dibromomethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,3-Dichlorobenzene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,4-Dichlorobenzene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Dichlorodifluoromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1-Dichloroethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2-Dichloroethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2-Dichloropropane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,3-Dichloropropane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1-Dichloropropene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Di-isopropyl ether (DIPE)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Ethanol	ND	F1	240	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Ethylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Ethyl-t-butyl ether (ETBE)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
2-Hexanone	ND	F2 F1	49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Isopropylbenzene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Methylene Chloride	ND	F1	49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
4-Methyl-2-pentanone	ND	F1	49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Methyl-t-Butyl Ether (MTBE)	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
m,p-Xylene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Naphthalene	ND	F1	49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
n-Butylbenzene	ND	F2 F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
N-Propylbenzene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
o-Xylene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
p-Isopropyltoluene	ND	F2 F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
sec-Butylbenzene	ND	F2 F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-5**  
**Date Collected: 07/16/19 08:45**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Tert-amyl-methyl ether (TAME)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
tert-Butyl alcohol (TBA)	ND		49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
tert-Butylbenzene	ND	F2 F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1,1,2-Tetrachloroethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1,1,2,2-Tetrachloroethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Tetrachloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Toluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
trans-1,2-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
trans-1,3-Dichloropropene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2,3-Trichlorobenzene	ND	F2 F1	9.8	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2,4-Trichlorobenzene	ND	F2 F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1,2-Trichloroethane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Trichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Trichlorofluoromethane	ND		49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2,3-Trichloropropane	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,2,4-Trimethylbenzene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
1,3,5-Trimethylbenzene	ND	F1	4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Vinyl acetate	ND	F1	49	ug/Kg		07/29/19 20:56	07/30/19 06:23	1
Vinyl chloride	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 06:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120	07/29/19 20:56	07/30/19 06:23	1
Dibromofluoromethane	101		79 - 133	07/29/19 20:56	07/30/19 06:23	1
1,2-Dichloroethane-d4 (Surr)	106		71 - 155	07/29/19 20:56	07/30/19 06:23	1
Toluene-d8 (Surr)	101		80 - 120	07/29/19 20:56	07/30/19 06:23	1

**Client Sample ID: B1-15**  
**Date Collected: 07/16/19 08:55**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Benzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Bromobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Bromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Bromodichloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Bromoform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
2-Butanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Carbon disulfide	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Chlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Chloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Chloroform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1

Eurofins Calscience LLC



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-15**  
**Date Collected: 07/16/19 08:55**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Dibromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Dibromomethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Ethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
2-Hexanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Isopropylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Methylene Chloride	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
m,p-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Naphthalene	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
n-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
N-Propylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
o-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Styrene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Tetrachloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Toluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Trichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Trichlorofluoromethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-15**  
**Date Collected: 07/16/19 08:55**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Vinyl acetate	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Vinyl chloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120			07/29/19 20:56	07/30/19 08:08	1
Dibromofluoromethane	102		79 - 133			07/29/19 20:56	07/30/19 08:08	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 155			07/29/19 20:56	07/30/19 08:08	1
Toluene-d8 (Surr)	100		80 - 120			07/29/19 20:56	07/30/19 08:08	1

**Client Sample ID: B1-25**  
**Date Collected: 07/16/19 09:05**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Benzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Bromobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Bromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Bromodichloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Bromoform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
2-Butanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Carbon disulfide	ND		51	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Chlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Chloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Chloroform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Dibromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Dibromomethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 08:34	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 08:34	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-25**  
**Date Collected: 07/16/19 09:05**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		250	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Ethylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
2-Hexanone	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Isopropylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Methylene Chloride	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
4-Methyl-2-pentanone	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
m,p-Xylene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Naphthalene	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
n-Butylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
N-Propylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
o-Xylene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
p-Isopropyltoluene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
sec-Butylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Styrene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
tert-Butylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Tetrachloroethene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Toluene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Trichloroethene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Trichlorofluoromethane	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Vinyl acetate	ND		51	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1
Vinyl chloride	ND		5.1	ug/Kg	-	07/29/19 20:56	07/30/19 08:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120	07/29/19 20:56	07/30/19 08:34	1
Dibromofluoromethane	103		79 - 133	07/29/19 20:56	07/30/19 08:34	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 155	07/29/19 20:56	07/30/19 08:34	1
Toluene-d8 (Surr)	103		80 - 120	07/29/19 20:56	07/30/19 08:34	1

**Client Sample ID: B1-35**  
**Date Collected: 07/16/19 09:25**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg	-	07/29/19 20:56	07/30/19 09:00	1
Benzene	ND		4.9	ug/Kg	-	07/29/19 20:56	07/30/19 09:00	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-35**  
**Date Collected: 07/16/19 09:25**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Bromochloromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Bromodichloromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Bromoform	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
2-Butanone	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Carbon disulfide	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Chlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Chloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Chloroform	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
2-Chlorotoluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
4-Chlorotoluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
cis-1,3-Dichloropropene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Dibromochloromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2-Dibromo-3-Chloropropane	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2-Dibromoethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Dibromomethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,3-Dichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,4-Dichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Dichlorodifluoromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1-Dichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2-Dichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2-Dichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,3-Dichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1-Dichloropropene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Di-isopropyl ether (DIPE)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Ethylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Ethyl-t-butyl ether (ETBE)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
2-Hexanone	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Isopropylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Methylene Chloride	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
4-Methyl-2-pentanone	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
m,p-Xylene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Naphthalene	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
n-Butylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
N-Propylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
o-Xylene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
p-Isopropyltoluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
sec-Butylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Styrene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Tert-amyl-methyl ether (TAME)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 09:00	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-35**  
**Date Collected: 07/16/19 09:25**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
tert-Butylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1,1,2-Tetrachloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1,2,2-Tetrachloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Tetrachloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Toluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
trans-1,2-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
trans-1,3-Dichloropropene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2,3-Trichlorobenzene	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2,4-Trichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1,2-Trichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Trichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Trichlorofluoromethane	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2,3-Trichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,2,4-Trimethylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
1,3,5-Trimethylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Vinyl acetate	ND		49	ug/Kg		07/29/19 20:56	07/30/19 09:00	1
Vinyl chloride	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 09:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120	07/29/19 20:56	07/30/19 09:00	1
Dibromofluoromethane	103		79 - 133	07/29/19 20:56	07/30/19 09:00	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 155	07/29/19 20:56	07/30/19 09:00	1
Toluene-d8 (Surr)	100		80 - 120	07/29/19 20:56	07/30/19 09:00	1

**Client Sample ID: B1-45**  
**Date Collected: 07/16/19 09:40**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Benzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Bromobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Bromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Bromodichloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Bromoform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
2-Butanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Carbon disulfide	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Chlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Chloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Chloroform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Dibromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-45**  
**Date Collected: 07/16/19 09:40**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		9.9	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Dibromomethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Di-isopropyl ether (DIPE)	ND		9.9	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Ethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Ethyl-t-butyl ether (ETBE)	ND		9.9	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
2-Hexanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Isopropylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Methylene Chloride	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
m,p-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Naphthalene	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
n-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
N-Propylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
o-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Styrene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Tert-amyl-methyl ether (TAME)	ND		9.9	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Tetrachloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Toluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2,3-Trichlorobenzene	ND		9.9	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Trichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Trichlorofluoromethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-45**  
**Date Collected: 07/16/19 09:40**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-9**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Vinyl acetate	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Vinyl chloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120			07/29/19 20:56	07/30/19 09:27	1
Dibromofluoromethane	101		79 - 133			07/29/19 20:56	07/30/19 09:27	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 155			07/29/19 20:56	07/30/19 09:27	1
Toluene-d8 (Surr)	99		80 - 120			07/29/19 20:56	07/30/19 09:27	1

**Client Sample ID: B1-55**  
**Date Collected: 07/16/19 09:50**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-11**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Benzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Bromobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Bromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Bromodichloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Bromoform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
2-Butanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Carbon disulfide	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Chlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Chloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Chloroform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Dibromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Dibromomethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Ethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1

Eurofins Calscience LLC



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B1-55**  
**Date Collected: 07/16/19 09:50**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-11**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
2-Hexanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Isopropylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Methylene Chloride	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
m,p-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Naphthalene	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
n-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
N-Propylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
o-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Styrene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Tetrachloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Toluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Trichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Trichlorofluoromethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Vinyl acetate	ND		50	ug/Kg		07/29/19 20:56	07/30/19 09:54	1
Vinyl chloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120	07/29/19 20:56	07/30/19 09:54	1
Dibromofluoromethane	102		79 - 133	07/29/19 20:56	07/30/19 09:54	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 155	07/29/19 20:56	07/30/19 09:54	1
Toluene-d8 (Surr)	102		80 - 120	07/29/19 20:56	07/30/19 09:54	1

**Client Sample ID: B2-5**  
**Date Collected: 07/16/19 12:10**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-13**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Benzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Bromobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Bromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-5**  
**Date Collected: 07/16/19 12:10**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-13**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Bromoform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
2-Butanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Carbon disulfide	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Chlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Chloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Chloroform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Dibromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Dibromomethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Ethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
2-Hexanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Isopropylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Methylene Chloride	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
m,p-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Naphthalene	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
n-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
N-Propylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
o-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Styrene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-5**  
**Date Collected: 07/16/19 12:10**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-13**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Tetrachloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Toluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Trichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Trichlorofluoromethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Vinyl acetate	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:20	1
Vinyl chloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		80 - 120	07/29/19 20:56	07/30/19 10:20	1
Dibromofluoromethane	102		79 - 133	07/29/19 20:56	07/30/19 10:20	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 155	07/29/19 20:56	07/30/19 10:20	1
Toluene-d8 (Surr)	101		80 - 120	07/29/19 20:56	07/30/19 10:20	1

**Client Sample ID: B2-10**  
**Date Collected: 07/16/19 12:15**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-14**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Benzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Bromobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Bromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Bromodichloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Bromoform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
2-Butanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Carbon disulfide	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Chlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Chloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Chloroform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Dibromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-10**  
**Date Collected: 07/16/19 12:15**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-14**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Ethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
2-Hexanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Isopropylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Methylene Chloride	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
m,p-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Naphthalene	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
n-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
N-Propylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
o-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Styrene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Tetrachloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Toluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Trichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Trichlorofluoromethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	1
Vinyl acetate	ND		51	ug/Kg		07/29/19 20:56	07/30/19 10:47	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-10**  
**Date Collected: 07/16/19 12:15**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-14**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 10:47	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)	96		80 - 120			07/29/19 20:56	07/30/19 10:47	1
Dibromofluoromethane	102		79 - 133			07/29/19 20:56	07/30/19 10:47	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 155			07/29/19 20:56	07/30/19 10:47	1
Toluene-d8 (Surr)	101		80 - 120			07/29/19 20:56	07/30/19 10:47	1

**Client Sample ID: B2-20**  
**Date Collected: 07/16/19 12:25**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-16**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Benzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Bromobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Bromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Bromodichloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Bromoform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
2-Butanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Carbon disulfide	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Chlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Chloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Chloroform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Dibromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Dibromomethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Ethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
2-Hexanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-20**  
**Date Collected: 07/16/19 12:25**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-16**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Methylene Chloride	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
m,p-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Naphthalene	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
n-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
N-Propylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
o-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Styrene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Tetrachloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Toluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Trichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Trichlorofluoromethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Vinyl acetate	ND		50	ug/Kg		07/29/19 20:56	07/30/19 11:14	1
Vinyl chloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120	07/29/19 20:56	07/30/19 11:14	1
Dibromofluoromethane	102		79 - 133	07/29/19 20:56	07/30/19 11:14	1
1,2-Dichloroethane-d4 (Surr)	101		71 - 155	07/29/19 20:56	07/30/19 11:14	1
Toluene-d8 (Surr)	97		80 - 120	07/29/19 20:56	07/30/19 11:14	1

**Client Sample ID: B2-30**  
**Date Collected: 07/16/19 12:40**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-18**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Benzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Bromobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Bromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Bromodichloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Bromoform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-30**  
**Date Collected: 07/16/19 12:40**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-18**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
2-Butanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Carbon disulfide	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Chlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Chloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Chloroform	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Dibromochloromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Dibromomethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Ethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
2-Hexanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Isopropylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Methylene Chloride	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
m,p-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Naphthalene	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
n-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
N-Propylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
o-Xylene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Styrene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-30**  
**Date Collected: 07/16/19 12:40**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-18**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Toluene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Trichloroethene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Trichlorofluoromethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Vinyl acetate	ND		51	ug/Kg		07/29/19 20:56	07/30/19 11:41	1
Vinyl chloride	ND		5.1	ug/Kg		07/29/19 20:56	07/30/19 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	97		80 - 120	07/29/19 20:56	07/30/19 11:41	1
<i>Dibromofluoromethane</i>	99		79 - 133	07/29/19 20:56	07/30/19 11:41	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		71 - 155	07/29/19 20:56	07/30/19 11:41	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120	07/29/19 20:56	07/30/19 11:41	1

**Client Sample ID: B2-55**  
**Date Collected: 07/16/19 13:10**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-22**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Benzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Bromobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Bromochloromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Bromodichloromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Bromoform	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Bromomethane	ND		24	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
2-Butanone	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Carbon disulfide	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Chlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Chloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Chloroform	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Chloromethane	ND		24	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
2-Chlorotoluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
4-Chlorotoluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
cis-1,3-Dichloropropene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Dibromochloromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2-Dibromo-3-Chloropropane	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2-Dibromoethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Dibromomethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Client Sample ID: B2-55**  
**Date Collected: 07/16/19 13:10**  
**Date Received: 07/17/19 17:30**

**Lab Sample ID: 570-2099-22**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,4-Dichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Dichlorodifluoromethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1-Dichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2-Dichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2-Dichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,3-Dichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1-Dichloropropene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Di-isopropyl ether (DIPE)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Ethanol	ND		240	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Ethylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Ethyl-t-butyl ether (ETBE)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
2-Hexanone	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Isopropylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Methylene Chloride	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
4-Methyl-2-pentanone	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
m,p-Xylene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Naphthalene	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
n-Butylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
N-Propylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
o-Xylene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
p-Isopropyltoluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
sec-Butylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Styrene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Tert-amyl-methyl ether (TAME)	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
tert-Butyl alcohol (TBA)	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
tert-Butylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1,1,2-Tetrachloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1,2,2-Tetrachloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Tetrachloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Toluene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
trans-1,2-Dichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
trans-1,3-Dichloropropene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2,3-Trichlorobenzene	ND		9.8	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2,4-Trichlorobenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1,2-Trichloroethane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Trichloroethene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Trichlorofluoromethane	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2,3-Trichloropropane	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,2,4-Trimethylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
1,3,5-Trimethylbenzene	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Vinyl acetate	ND		49	ug/Kg		07/29/19 20:56	07/30/19 12:07	1
Vinyl chloride	ND		4.9	ug/Kg		07/29/19 20:56	07/30/19 12:07	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>4-Bromofluorobenzene (Surr)</i>	95		80 - 120	07/29/19 20:56	07/30/19 12:07	1
<i>Dibromofluoromethane</i>	102		79 - 133	07/29/19 20:56	07/30/19 12:07	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		71 - 155	07/29/19 20:56	07/30/19 12:07	1
<i>Toluene-d8 (Surr)</i>	99		80 - 120	07/29/19 20:56	07/30/19 12:07	1

# Surrogate Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Matrix: Solid**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(80-120)	(79-133)	(71-155)	(80-120)
570-2099-1	B1-5	100	101	106	101
570-2099-1 MS	B1-5	100	106	111	99
570-2099-1 MSD	B1-5	101	105	108	100
570-2099-3	B1-15	100	102	103	100
570-2099-5	B1-25	96	103	101	103
570-2099-7	B1-35	97	103	103	100
570-2099-9	B1-45	98	101	103	99
570-2099-11	B1-55	98	102	100	102
570-2099-13	B2-5	93	102	104	101
570-2099-14	B2-10	96	102	104	101
570-2099-16	B2-20	98	102	101	97
570-2099-18	B2-30	97	99	100	100
570-2099-22	B2-55	95	102	102	99
LCS 570-8675/1-A	Lab Control Sample	102	103	102	101
MB 570-8675/2-A	Method Blank	102	101	102	103

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Lab Sample ID: MB 570-8675/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8678**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8675**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Acetone	ND		120	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Benzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Bromobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Bromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Bromodichloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Bromoform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Bromomethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
2-Butanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Carbon disulfide	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Chlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Chloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Chloroform	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Chloromethane	ND		25	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Dibromochloromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Dibromomethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Ethanol	ND		250	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Ethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
2-Hexanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Isopropylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Methylene Chloride	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
m,p-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Naphthalene	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
n-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
N-Propylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
o-Xylene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Lab Sample ID: MB 570-8675/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8678**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8675**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Styrene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Tetrachloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Toluene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Trichloroethene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Trichlorofluoromethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Vinyl acetate	ND		50	ug/Kg		07/29/19 20:56	07/30/19 05:57	1
Vinyl chloride	ND		5.0	ug/Kg		07/29/19 20:56	07/30/19 05:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	07/29/19 20:56	07/30/19 05:57	1
Dibromofluoromethane	101		79 - 133	07/29/19 20:56	07/30/19 05:57	1
1,2-Dichloroethane-d4 (Surr)	102		71 - 155	07/29/19 20:56	07/30/19 05:57	1
Toluene-d8 (Surr)	103		80 - 120	07/29/19 20:56	07/30/19 05:57	1

**Lab Sample ID: LCS 570-8675/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8678**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8675**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.6	48.11		ug/Kg		95	78 - 120
Carbon tetrachloride	50.6	48.38		ug/Kg		96	49 - 139
Chlorobenzene	50.6	48.35		ug/Kg		96	79 - 120
1,2-Dibromoethane	50.6	52.68		ug/Kg		104	70 - 130
1,2-Dichlorobenzene	50.6	48.52		ug/Kg		96	75 - 120
1,2-Dichloroethane	50.6	48.68		ug/Kg		96	70 - 130
1,1-Dichloroethene	50.6	44.58		ug/Kg		88	74 - 122
Di-isopropyl ether (DIPE)	50.6	49.12		ug/Kg		97	78 - 120
Ethanol	506	531.2		ug/Kg		105	56 - 140
Ethylbenzene	50.6	49.19		ug/Kg		97	76 - 120
Ethyl-t-butyl ether (ETBE)	50.6	47.44		ug/Kg		94	70 - 124
Methyl-t-Butyl Ether (MTBE)	50.6	44.01		ug/Kg		87	70 - 124
m,p-Xylene	101	98.68		ug/Kg		97	70 - 130

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Lab Sample ID: LCS 570-8675/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8678**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8675**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	50.6	50.16		ug/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane	103		79 - 133
1,2-Dichloroethane-d4 (Surr)	102		71 - 155
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: 570-2099-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 8678**

**Client Sample ID: B1-5**  
**Prep Type: Total/NA**  
**Prep Batch: 8675**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		48.6	33.31		ug/Kg		68	61 - 127
Carbon tetrachloride	ND		48.6	36.11		ug/Kg		74	51 - 135
Chlorobenzene	ND		48.6	28.47		ug/Kg		59	57 - 123
1,2-Dibromoethane	ND	F1	48.6	27.97		ug/Kg		58	64 - 124
1,2-Dichlorobenzene	ND		48.6	20.54		ug/Kg		42	35 - 131
1,2-Dichloroethane	ND	F1	48.6	29.74		ug/Kg		61	70 - 130
1,1-Dichloroethene	ND		48.6	35.91		ug/Kg		74	47 - 143
Di-isopropyl ether (DIPE)	ND		48.6	33.20		ug/Kg		68	57 - 129
Ethanol	ND	F1	486	ND		ug/Kg		0	17 - 167
Ethylbenzene	ND		48.6	30.54		ug/Kg		63	57 - 129
Ethyl-t-butyl ether (ETBE)	ND		48.6	31.16		ug/Kg		64	55 - 127
Methyl-t-Butyl Ether (MTBE)	ND	F1	48.6	27.88		ug/Kg		57	57 - 123
m,p-Xylene	ND	F1	97.3	59.99		ug/Kg		62	70 - 130
o-Xylene	ND	F1	48.6	28.94		ug/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane	106		79 - 133
1,2-Dichloroethane-d4 (Surr)	111		71 - 155
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: 570-2099-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 8678**

**Client Sample ID: B1-5**  
**Prep Type: Total/NA**  
**Prep Batch: 8675**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		49.9	33.83		ug/Kg		68	61 - 127	2	20
Carbon tetrachloride	ND		49.9	38.13		ug/Kg		76	51 - 135	5	29
Chlorobenzene	ND		49.9	30.75		ug/Kg		62	57 - 123	8	20
1,2-Dibromoethane	ND	F1	49.9	29.58		ug/Kg		59	64 - 124	6	20
1,2-Dichlorobenzene	ND		49.9	24.41		ug/Kg		49	35 - 131	17	25
1,2-Dichloroethane	ND	F1	49.9	29.78		ug/Kg		60	70 - 130	0	20
1,1-Dichloroethene	ND		49.9	35.68		ug/Kg		72	47 - 143	1	25
Di-isopropyl ether (DIPE)	ND		49.9	33.14		ug/Kg		66	57 - 129	0	20
Ethanol	ND	F1	499	ND		ug/Kg		0	17 - 167	NC	47

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

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

**Lab Sample ID: 570-2099-1 MSD**

**Matrix: Solid**

**Analysis Batch: 8678**

**Client Sample ID: B1-5**

**Prep Type: Total/NA**

**Prep Batch: 8675**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND		49.9	33.59		ug/Kg		67	57 - 129	10	22
Ethyl-t-butyl ether (ETBE)	ND		49.9	30.75		ug/Kg		62	55 - 127	1	20
Methyl-t-Butyl Ether (MTBE)	ND	F1	49.9	27.25		ug/Kg		55	57 - 123	2	21
m,p-Xylene	ND	F1	99.8	66.95		ug/Kg		67	70 - 130	11	20
o-Xylene	ND	F1	49.9	32.26		ug/Kg		65	70 - 130	11	20
<b>MSD MSD</b>											
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		80 - 120								
Dibromofluoromethane	105		79 - 133								
1,2-Dichloroethane-d4 (Surr)	108		71 - 155								
Toluene-d8 (Surr)	100		80 - 120								

# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

## GC/MS VOA

### Prep Batch: 8675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-1	B1-5	Total/NA	Solid	5030C	
570-2099-3	B1-15	Total/NA	Solid	5030C	
570-2099-5	B1-25	Total/NA	Solid	5030C	
570-2099-7	B1-35	Total/NA	Solid	5030C	
570-2099-9	B1-45	Total/NA	Solid	5030C	
570-2099-11	B1-55	Total/NA	Solid	5030C	
570-2099-13	B2-5	Total/NA	Solid	5030C	
570-2099-14	B2-10	Total/NA	Solid	5030C	
570-2099-16	B2-20	Total/NA	Solid	5030C	
570-2099-18	B2-30	Total/NA	Solid	5030C	
570-2099-22	B2-55	Total/NA	Solid	5030C	
MB 570-8675/2-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-8675/1-A	Lab Control Sample	Total/NA	Solid	5030C	
570-2099-1 MS	B1-5	Total/NA	Solid	5030C	
570-2099-1 MSD	B1-5	Total/NA	Solid	5030C	

### Analysis Batch: 8678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2099-1	B1-5	Total/NA	Solid	8260B	8675
570-2099-3	B1-15	Total/NA	Solid	8260B	8675
570-2099-5	B1-25	Total/NA	Solid	8260B	8675
570-2099-7	B1-35	Total/NA	Solid	8260B	8675
570-2099-9	B1-45	Total/NA	Solid	8260B	8675
570-2099-11	B1-55	Total/NA	Solid	8260B	8675
570-2099-13	B2-5	Total/NA	Solid	8260B	8675
570-2099-14	B2-10	Total/NA	Solid	8260B	8675
570-2099-16	B2-20	Total/NA	Solid	8260B	8675
570-2099-18	B2-30	Total/NA	Solid	8260B	8675
570-2099-22	B2-55	Total/NA	Solid	8260B	8675
MB 570-8675/2-A	Method Blank	Total/NA	Solid	8260B	8675
LCS 570-8675/1-A	Lab Control Sample	Total/NA	Solid	8260B	8675
570-2099-1 MS	B1-5	Total/NA	Solid	8260B	8675
570-2099-1 MSD	B1-5	Total/NA	Solid	8260B	8675

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

## Client Sample ID: B1-5

Date Collected: 07/16/19 08:45

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-1

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			5.11 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 06:23	NET3	ECL 2

Instrument ID: GCMSQ

## Client Sample ID: B1-15

Date Collected: 07/16/19 08:55

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-3

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			4.93 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 08:08	NET3	ECL 2

Instrument ID: GCMSQ

## Client Sample ID: B1-25

Date Collected: 07/16/19 09:05

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-5

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			4.95 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 08:34	NET3	ECL 2

Instrument ID: GCMSQ

## Client Sample ID: B1-35

Date Collected: 07/16/19 09:25

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-7

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			5.10 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 09:00	NET3	ECL 2

Instrument ID: GCMSQ

## Client Sample ID: B1-45

Date Collected: 07/16/19 09:40

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-9

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			5.05 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 09:27	NET3	ECL 2

Instrument ID: GCMSQ

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

## Client Sample ID: B1-55

Date Collected: 07/16/19 09:50

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-11

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			4.97 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 09:54	NET3	ECL 2
Instrument ID: GCMSQ										

## Client Sample ID: B2-5

Date Collected: 07/16/19 12:10

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-13

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			4.94 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 10:20	NET3	ECL 2
Instrument ID: GCMSQ										

## Client Sample ID: B2-10

Date Collected: 07/16/19 12:15

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-14

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			4.95 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 10:47	NET3	ECL 2
Instrument ID: GCMSQ										

## Client Sample ID: B2-20

Date Collected: 07/16/19 12:25

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-16

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			5.00 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 11:14	NET3	ECL 2
Instrument ID: GCMSQ										

## Client Sample ID: B2-30

Date Collected: 07/16/19 12:40

Date Received: 07/17/19 17:30

## Lab Sample ID: 570-2099-18

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			4.94 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 11:41	NET3	ECL 2
Instrument ID: GCMSQ										

# Lab Chronicle

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

**Client Sample ID: B2-55**

**Lab Sample ID: 570-2099-22**

**Date Collected: 07/16/19 13:10**

**Matrix: Solid**

**Date Received: 07/17/19 17:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.11 g	5 mL	8675	07/29/19 20:56	MGX6	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8678	07/30/19 12:07	NET3	ECL 2

Instrument ID: GCMSQ

## Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2099-2

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
5030C	Purge and Trap	SW846	ECL 2

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494





# Sample Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2099-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2099-1	B1-5	Solid	07/16/19 08:45	07/17/19 17:30	
570-2099-3	B1-15	Solid	07/16/19 08:55	07/17/19 17:30	
570-2099-5	B1-25	Solid	07/16/19 09:05	07/17/19 17:30	
570-2099-7	B1-35	Solid	07/16/19 09:25	07/17/19 17:30	
570-2099-9	B1-45	Solid	07/16/19 09:40	07/17/19 17:30	
570-2099-11	B1-55	Solid	07/16/19 09:50	07/17/19 17:30	
570-2099-13	B2-5	Solid	07/16/19 12:10	07/17/19 17:30	
570-2099-14	B2-10	Solid	07/16/19 12:15	07/17/19 17:30	
570-2099-16	B2-20	Solid	07/16/19 12:25	07/17/19 17:30	
570-2099-18	B2-30	Solid	07/16/19 12:40	07/17/19 17:30	
570-2099-22	B2-55	Solid	07/16/19 13:10	07/17/19 17:30	

## Donald Burley

---

**From:** Megan Roughan <mroughan@citadelehs.com>  
**Sent:** Monday, July 29, 2019 5:41 PM  
**To:** Donald Burley; Mike Pendergrass  
**Subject:** RE: Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vicente Blvd Phase II

EXTERNAL EMAIL\*

Hi Don,

Thank you for the lab reports.

I would like to request the additional analysis be run:

VOCs by EPA Method 8260B for these samples from the following borings.

### Boring 1

- B1-5
- B1-15
- B1-25
- B1-35
- B1-45
- B1-55

### Boring 2

- B2-5
- B2-10
- B2-20
- B2-30
- B2-45
- B2-55

### Boring 3

- B3-10
- B3-20
- B3-30
- B3-40
- B3-50
- B3-60

### Boring 4

- B4-5
- B4-15
- B4-25
- B4-30
- B4-40
- B4-50

### Boring 5

- B5-10
- B5-20
- B5-30

- B5-40
- B5-50
- B5-60

Boring 6

- B6-5
- B6-15
- B6-25
- B6-35
- B6-40
- B6-50

These samples can be analyzed at standard turnaround time. Please let me know if there's any issue.

Thank you,  
Meg

**Megan Roughan**

Staff Engineer, Engineering and Environmental Sciences



Los Angeles – Corporate Office

1725 Victory Blvd. **GSA Advantage!**

Glendale, CA 91201

O: 818.246.2707

[www.citadelehs.com](http://www.citadelehs.com)

Glendale | Costa Mesa | Valencia

**From:** Don Burley <[noreply@eurofinslimsservices.com](mailto:noreply@eurofinslimsservices.com)>

**Sent:** Monday, July 29, 2019 5:11 PM

**To:** Mike Pendergrass <[MPendergrass@citadelehs.com](mailto:MPendergrass@citadelehs.com)>; Megan Roughan <[mroughan@citadelehs.com](mailto:mroughan@citadelehs.com)>

**Subject:** Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vincente Blvd Phase II

Hello,

Attached please find the report and EDD files for job 570-2098-1; 333 S. San Vincente Blvd Phase II

Please feel free to contact me if you have any questions.

Thank you.

**Don Burley**

Project Manager

Eurofins Calscience LLC

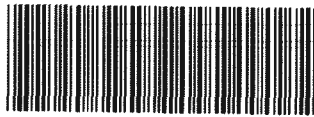
Phone: 714-895-5494

E-mail: [donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

[www.EurofinsUS.com](http://www.EurofinsUS.com)



Calsciel



570-2099 Chain of Custody

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CHAIN OF CUSTODY RECORD

2099

DATE: 7/16/2019

PAGE: 1 OF 3

WO # / LAB USE ONLY

LABORATORY CLIENT: **Citadel EHS**

ADDRESS: **1725 Victory Blvd**

CITY: **Glendale** STATE: **CA** ZIP: **91201**

TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**  
**1234.1003**

P.O. NO.: **1234.1003**

PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**

SAMPLER(S): (PRINT)  
**Megan Roughan**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH <input checked="" type="checkbox"/> Full Carbon Chain <b>8015M</b>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	[ HOLD
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<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	[ HOLD

SPECIAL INSTRUCTIONS:  
**Please hold all samples except for B1-20, B1-40, B2-35, and B2-45**

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
1	B1-5	7/16/19	0845	Soil	1	<input checked="" type="checkbox"/>		
2	B1-10		0850			<input checked="" type="checkbox"/>		
3	B1-15		0855			<input checked="" type="checkbox"/>		
4	B1-20		0900			<input checked="" type="checkbox"/>		
5	B1-25		0905			<input checked="" type="checkbox"/>		
6	B1-30		0915			<input checked="" type="checkbox"/>		
7	B1-35		0925			<input checked="" type="checkbox"/>		
8	B1-40		0930			<input checked="" type="checkbox"/>		
9	B1-45		0940			<input checked="" type="checkbox"/>		
10	B1-50		0945			<input checked="" type="checkbox"/>		

Relinquished by: (Signature) <i>Megan Roughan</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/17/2019	Time: 11:05
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] EC</i>	Date: 7/17/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

3-0/3.2 SC6





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CHAIN OF CUSTODY RECORD <sup>2099</sup>

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WO # / LAB USE ONLY

DATE: 7/16/2019  
PAGE: 2 OF 3

LABORATORY CLIENT: **Citadel EHS**

ADDRESS: **1725 Victory Blvd**

CITY: **Glendale** STATE: **CA** ZIP: **91201**

TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**

P.O. NO.: **1234.1003**

PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**

SAMPLER(S): (PRINT) **Megan Roughan**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

**Please hold all samples except for B1-20, B1-40, B2-35, and B2-45**

REQUESTED ANALYSES

Please check box or fill in blank as needed.

Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain EPA BotSH	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010747X <input type="checkbox"/> 6020747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
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<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered
		DATE	TIME					
11	B1-55	7/16/19	0950	Soil	1	<input checked="" type="checkbox"/>		
12	B1-60		0955			<input checked="" type="checkbox"/>		
13	B2-5		1210			<input checked="" type="checkbox"/>		
14	B2-10		1215			<input checked="" type="checkbox"/>		
15	B2-15		1220			<input checked="" type="checkbox"/>		
16	B2-20		1225			<input checked="" type="checkbox"/>		
17	B2-25		1235			<input checked="" type="checkbox"/>		
18	B2-30		1240			<input checked="" type="checkbox"/>		
19	B2-35		1250			<input checked="" type="checkbox"/>		
20	B2-45		1300			<input checked="" type="checkbox"/>		

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/17/2019	Time: 11:05
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature] EC</i>	Date: 7/17/19	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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7/31/2019



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WO # / LAB USE ONLY

DATE: 7/16/2019  
PAGE: 3 OF 3

LABORATORY CLIENT: Citadel EHS  
ADDRESS: 1725 Victory Blvd  
CITY: Glendale STATE: CA ZIP: 91201  
TEL: 818-246-2707 E-MAIL: mpendergrass@citadelehs.com

CLIENT PROJECT NAME / NUMBER: 333 S. San Vicente Blvd Phase II  
1234-1003  
PROJECT CONTACT: Mike Pendergrass  
mpendergrass@citadelehs.com  
P.O. NO.: 1234.1003  
SAMPLER(S): (PRINT) Megan Roughan

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:  
Please hold all samples except for B1-20, B1-40, B2-35, and B2-45

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH <input checked="" type="checkbox"/> Full Carbon Chain <sup>EPA</sup> <u>B015M</u>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X <sup>B1</sup>	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6										
		DATE	TIME																													
21	B2-50	7/16/19	1305	Soil	1	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>										
22	B2-55		1310			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>										
23	B2-60		1325			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>										
24	B1-GW	7/16/19	0915	water	3		<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>																		
25	B2-GW		1230				<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>																		

Relinquished by: (Signature) [Signature]

Received by: (Signature/Affiliation) [Signature]

Date: 7/17/2019 Time: 11:05  
Date: 7/17/19 Time: 1730

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7/31/2019



# Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2099-2

**Login Number: 2099**

**List Source: Eurofins Calscience**

**List Number: 1**

**Creator: Castro, Joy**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with acppt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

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

Laboratory Job ID: 570-2262-1

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



---

Authorized for release by:  
8/2/2019 11:04:29 AM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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.
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

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**Job ID: 570-2262-1**

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**Laboratory: Eurofins Calscience LLC**

## Narrative

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### Job Narrative 570-2262-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/18/2019 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

#### Receipt Exceptions

The following volatile sample was analyzed with significant headspace in the sample container(s): B5-GW (570-2262-25). Significant headspace is defined as a bubble greater than 6 mm in diameter. 3 of 3 vials received with headspace.

#### GC Semi VOA

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

#### Metals

Method(s) 6010B: The absolute response for Antimony, Chromium, Molybdenum, Selenium, Silver and Thallium was greater than the method reporting limit (RL). The instrument raw data has been manually reviewed and the result can be reported as ND.

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-8080 and analytical batch 570-8442 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.

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.

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-1

## Client Sample ID: B4-5

## Lab Sample ID: 570-2262-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.48		0.735	mg/Kg	1		6010B	Total/NA
Barium	114		0.490	mg/Kg	1		6010B	Total/NA
Beryllium	0.742		0.245	mg/Kg	1		6010B	Total/NA
Cadmium	2.05		0.490	mg/Kg	1		6010B	Total/NA
Chromium	22.4		0.245	mg/Kg	1		6010B	Total/NA
Cobalt	6.98		0.245	mg/Kg	1		6010B	Total/NA
Copper	12.5		0.490	mg/Kg	1		6010B	Total/NA
Lead	1.50		0.490	mg/Kg	1		6010B	Total/NA
Nickel	13.0		0.245	mg/Kg	1		6010B	Total/NA
Vanadium	34.4		0.245	mg/Kg	1		6010B	Total/NA
Zinc	28.2		0.980	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B4-25

## Lab Sample ID: 570-2262-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.60		0.728	mg/Kg	1		6010B	Total/NA
Barium	125		0.485	mg/Kg	1		6010B	Total/NA
Beryllium	1.14		0.243	mg/Kg	1		6010B	Total/NA
Cadmium	3.57		0.485	mg/Kg	1		6010B	Total/NA
Chromium	39.9		0.243	mg/Kg	1		6010B	Total/NA
Cobalt	12.0		0.243	mg/Kg	1		6010B	Total/NA
Copper	32.1		0.485	mg/Kg	1		6010B	Total/NA
Lead	3.27		0.485	mg/Kg	1		6010B	Total/NA
Molybdenum	0.702		0.243	mg/Kg	1		6010B	Total/NA
Nickel	32.3		0.243	mg/Kg	1		6010B	Total/NA
Selenium	1.14		0.728	mg/Kg	1		6010B	Total/NA
Vanadium	66.8		0.243	mg/Kg	1		6010B	Total/NA
Zinc	72.1		0.971	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B5-15

## Lab Sample ID: 570-2262-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.7		0.769	mg/Kg	1		6010B	Total/NA
Barium	104		0.513	mg/Kg	1		6010B	Total/NA
Beryllium	1.15		0.256	mg/Kg	1		6010B	Total/NA
Cadmium	3.16		0.513	mg/Kg	1		6010B	Total/NA
Chromium	39.0		0.256	mg/Kg	1		6010B	Total/NA
Cobalt	9.16		0.256	mg/Kg	1		6010B	Total/NA
Copper	24.7		0.513	mg/Kg	1		6010B	Total/NA
Lead	1.74		0.513	mg/Kg	1		6010B	Total/NA
Nickel	25.4		0.256	mg/Kg	1		6010B	Total/NA
Vanadium	60.1		0.256	mg/Kg	1		6010B	Total/NA
Zinc	55.3		1.03	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B5-55

## Lab Sample ID: 570-2262-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.91		0.725	mg/Kg	1		6010B	Total/NA
Barium	124		0.483	mg/Kg	1		6010B	Total/NA
Beryllium	0.928		0.242	mg/Kg	1		6010B	Total/NA
Cadmium	2.84		0.483	mg/Kg	1		6010B	Total/NA
Chromium	34.6		0.242	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

**Client Sample ID: B5-55 (Continued)**

**Lab Sample ID: 570-2262-23**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	9.55		0.242	mg/Kg	1		6010B	Total/NA
Copper	15.3		0.483	mg/Kg	1		6010B	Total/NA
Lead	1.13		0.483	mg/Kg	1		6010B	Total/NA
Nickel	16.5		0.242	mg/Kg	1		6010B	Total/NA
Vanadium	58.1		0.242	mg/Kg	1		6010B	Total/NA
Zinc	42.9		0.966	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

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

**Client Sample ID: B4-5**  
**Date Collected: 07/17/19 11:30**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C7 as C7	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C8 as C8	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C9-C10	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C11-C12	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C13-C14	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C15-C16	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C17-C18	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C19-C20	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C21-C22	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C23-C24	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C25-C28	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C29-C32	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C33-C36	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C37-C40	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C41-C44	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1
C6-C44	ND		5.0	mg/Kg	-	07/24/19 13:35	07/25/19 09:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	76		61 - 145	07/24/19 13:35	07/25/19 09:09	1

**Client Sample ID: B4-25**  
**Date Collected: 07/17/19 12:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C7 as C7	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C8 as C8	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C9-C10	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C11-C12	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C13-C14	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C15-C16	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C17-C18	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C19-C20	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C21-C22	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C23-C24	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C25-C28	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C29-C32	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C33-C36	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C37-C40	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C41-C44	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1
C6-C44	ND		4.9	mg/Kg	-	07/24/19 15:29	07/25/19 09:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	71		61 - 145	07/24/19 15:29	07/25/19 09:30	1



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

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

**Client Sample ID: B5-15**  
**Date Collected: 07/18/19 08:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-16**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C7 as C7	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C8 as C8	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C9-C10	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C11-C12	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C13-C14	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C15-C16	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C17-C18	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C19-C20	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C21-C22	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C23-C24	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C25-C28	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C29-C32	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C33-C36	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C37-C40	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C41-C44	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	1
C6-C44	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 09:50	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>	80		61 - 145			07/24/19 15:29	07/25/19 09:50	1

**Client Sample ID: B5-55**  
**Date Collected: 07/18/19 09:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-23**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C7 as C7	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C8 as C8	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C9-C10	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C11-C12	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C13-C14	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C15-C16	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C17-C18	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C19-C20	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C21-C22	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C23-C24	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C25-C28	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C29-C32	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C33-C36	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C37-C40	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C41-C44	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	1
C6-C44	ND		5.0	mg/Kg	-	07/24/19 15:29	07/25/19 10:10	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>	76		61 - 145			07/24/19 15:29	07/25/19 10:10	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: B4-5**  
**Date Collected: 07/17/19 11:30**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.735	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Arsenic</b>	<b>5.48</b>		0.735	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Barium</b>	<b>114</b>		0.490	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Beryllium</b>	<b>0.742</b>		0.245	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Cadmium</b>	<b>2.05</b>		0.490	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Chromium</b>	<b>22.4</b>		0.245	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Cobalt</b>	<b>6.98</b>		0.245	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Copper</b>	<b>12.5</b>		0.490	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Lead</b>	<b>1.50</b>		0.490	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
Molybdenum	ND	L	0.245	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Nickel</b>	<b>13.0</b>		0.245	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
Selenium	ND	L	0.735	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
Silver	ND	L	0.245	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
Thallium	ND		0.735	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Vanadium</b>	<b>34.4</b>		0.245	mg/Kg		07/24/19 14:00	07/28/19 17:38	1
<b>Zinc</b>	<b>28.2</b>		0.980	mg/Kg		07/24/19 14:00	07/28/19 17:38	1

**Client Sample ID: B4-25**  
**Date Collected: 07/17/19 12:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.728	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Arsenic</b>	<b>4.60</b>		0.728	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Barium</b>	<b>125</b>		0.485	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Beryllium</b>	<b>1.14</b>		0.243	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Cadmium</b>	<b>3.57</b>		0.485	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Chromium</b>	<b>39.9</b>		0.243	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Cobalt</b>	<b>12.0</b>		0.243	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Copper</b>	<b>32.1</b>		0.485	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Lead</b>	<b>3.27</b>		0.485	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Molybdenum</b>	<b>0.702</b>		0.243	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Nickel</b>	<b>32.3</b>		0.243	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Selenium</b>	<b>1.14</b>		0.728	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
Silver	ND	L	0.243	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
Thallium	ND	L	0.728	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Vanadium</b>	<b>66.8</b>		0.243	mg/Kg		07/24/19 14:00	07/28/19 16:57	1
<b>Zinc</b>	<b>72.1</b>		0.971	mg/Kg		07/24/19 14:00	07/28/19 16:57	1

**Client Sample ID: B5-15**  
**Date Collected: 07/18/19 08:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-16**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.769	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Arsenic</b>	<b>10.7</b>		0.769	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Barium</b>	<b>104</b>		0.513	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Beryllium</b>	<b>1.15</b>		0.256	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Cadmium</b>	<b>3.16</b>		0.513	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Chromium</b>	<b>39.0</b>		0.256	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Cobalt</b>	<b>9.16</b>		0.256	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Copper</b>	<b>24.7</b>		0.513	mg/Kg		07/24/19 14:00	07/28/19 16:59	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-1

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

**Client Sample ID: B5-15**  
**Date Collected: 07/18/19 08:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-16**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>1.74</b>		0.513	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
Molybdenum	ND	L	0.256	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Nickel</b>	<b>25.4</b>		0.256	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
Selenium	ND	L	0.769	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
Silver	ND	L	0.256	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
Thallium	ND		0.769	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Vanadium</b>	<b>60.1</b>		0.256	mg/Kg		07/24/19 14:00	07/28/19 16:59	1
<b>Zinc</b>	<b>55.3</b>		1.03	mg/Kg		07/24/19 14:00	07/28/19 16:59	1

**Client Sample ID: B5-55**  
**Date Collected: 07/18/19 09:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-23**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.725	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Arsenic</b>	<b>3.91</b>		0.725	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Barium</b>	<b>124</b>		0.483	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Beryllium</b>	<b>0.928</b>		0.242	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Cadmium</b>	<b>2.84</b>		0.483	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Chromium</b>	<b>34.6</b>		0.242	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Cobalt</b>	<b>9.55</b>		0.242	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Copper</b>	<b>15.3</b>		0.483	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Lead</b>	<b>1.13</b>		0.483	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
Molybdenum	ND	L	0.242	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Nickel</b>	<b>16.5</b>		0.242	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
Selenium	ND	L	0.725	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
Silver	ND	L	0.242	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
Thallium	ND		0.725	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Vanadium</b>	<b>58.1</b>		0.242	mg/Kg		07/24/19 14:00	07/28/19 17:01	1
<b>Zinc</b>	<b>42.9</b>		0.966	mg/Kg		07/24/19 14:00	07/28/19 17:01	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: B4-5**  
**Date Collected: 07/17/19 11:30**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	F2	0.0794	mg/Kg	-	07/26/19 17:00	07/28/19 10:21	1

**Client Sample ID: B4-25**  
**Date Collected: 07/17/19 12:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	mg/Kg	-	07/26/19 17:00	07/28/19 10:28	1

**Client Sample ID: B5-15**  
**Date Collected: 07/18/19 08:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-16**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	mg/Kg	-	07/26/19 17:00	07/28/19 10:30	1

**Client Sample ID: B5-55**  
**Date Collected: 07/18/19 09:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-23**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0806	mg/Kg	-	07/26/19 17:00	07/28/19 10:33	1

# Surrogate Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

**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)
570-2262-1	B4-5	76
570-2262-5	B4-25	71
570-2262-16	B5-15	80
570-2262-23	B5-55	76
570-2582-A-1-E MS	Matrix Spike	85
570-2582-A-1-F MSD	Matrix Spike Duplicate	87
LCS 570-7410/2-A	Lab Control Sample	86
MB 570-7410/1-A	Method Blank	86

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-1

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

**Lab Sample ID: MB 570-7410/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 7410**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C7 as C7	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C8 as C8	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C9-C10	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C11-C12	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C13-C14	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C15-C16	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C17-C18	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C19-C20	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C21-C22	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C23-C24	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C25-C28	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C29-C32	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C33-C36	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C37-C40	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C41-C44	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1
C6-C44	ND		5.0	mg/Kg		07/24/19 13:35	07/25/19 02:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	86		61 - 145	07/24/19 13:35	07/25/19 02:24	1

**Lab Sample ID: LCS 570-7410/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 7410**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	396	363.9		mg/Kg		92	67 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	86		61 - 145

**Lab Sample ID: 570-2582-A-1-E MS**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 7410**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		396	410.2		mg/Kg		104	33 - 153

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	85		61 - 145

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

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

**Lab Sample ID: 570-2582-A-1-F MSD**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 7410**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		392	414.8		mg/Kg		106	33 - 153	1	32
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n</i> -Octacosane (Surr)	87		61 - 145								

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-7445/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8461**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 7445**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.739	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Arsenic	ND		0.739	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Barium	ND		0.493	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Beryllium	ND		0.246	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Cadmium	ND		0.493	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Chromium	ND	L	0.246	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Cobalt	ND		0.246	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Copper	ND		0.493	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Lead	ND		0.493	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Molybdenum	ND		0.246	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Nickel	ND		0.246	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Selenium	ND		0.739	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Silver	ND		0.246	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Thallium	ND		0.739	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Vanadium	ND		0.246	mg/Kg		07/24/19 14:00	07/28/19 16:38	1
Zinc	ND		0.985	mg/Kg		07/24/19 14:00	07/28/19 16:38	1

**Lab Sample ID: LCS 570-7445/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8461**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 7445**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	25.1	22.89		mg/Kg		91	80 - 120
Arsenic	25.1	22.71		mg/Kg		90	80 - 120
Barium	25.1	26.74		mg/Kg		106	80 - 120
Beryllium	25.1	23.49		mg/Kg		93	80 - 120
Cadmium	25.1	25.30		mg/Kg		101	80 - 120
Chromium	25.1	23.85		mg/Kg		95	80 - 120
Cobalt	25.1	24.48		mg/Kg		97	80 - 120
Copper	25.1	23.39		mg/Kg		93	80 - 120
Lead	25.1	24.66		mg/Kg		98	80 - 120
Molybdenum	25.1	23.84		mg/Kg		95	80 - 120
Nickel	25.1	25.58		mg/Kg		102	80 - 120
Selenium	25.1	21.73		mg/Kg		86	80 - 120
Silver	12.6	11.30		mg/Kg		90	80 - 120
Thallium	25.1	25.30		mg/Kg		101	80 - 120

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

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

**Lab Sample ID: LCS 570-7445/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8461**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 7445**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	25.1	24.10		mg/Kg		96	80 - 120
Zinc	25.1	24.38		mg/Kg		97	80 - 120

**Lab Sample ID: LCSD 570-7445/3-A**  
**Matrix: Solid**  
**Analysis Batch: 8461**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 7445**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	24.9	23.00		mg/Kg		92	80 - 120	0	20
Arsenic	24.9	22.96		mg/Kg		92	80 - 120	1	20
Barium	24.9	26.65		mg/Kg		107	80 - 120	0	20
Beryllium	24.9	23.38		mg/Kg		94	80 - 120	0	20
Cadmium	24.9	25.21		mg/Kg		101	80 - 120	0	20
Chromium	24.9	23.82		mg/Kg		96	80 - 120	0	20
Cobalt	24.9	24.44		mg/Kg		98	80 - 120	0	20
Copper	24.9	23.30		mg/Kg		94	80 - 120	0	20
Lead	24.9	24.63		mg/Kg		99	80 - 120	0	20
Molybdenum	24.9	23.98		mg/Kg		96	80 - 120	1	20
Nickel	24.9	25.56		mg/Kg		103	80 - 120	0	20
Selenium	24.9	22.97		mg/Kg		92	80 - 120	6	20
Silver	12.4	11.18		mg/Kg		90	80 - 120	1	20
Thallium	24.9	25.58		mg/Kg		103	80 - 120	1	20
Vanadium	24.9	24.02		mg/Kg		97	80 - 120	0	20
Zinc	24.9	24.33		mg/Kg		98	80 - 120	0	20

**Lab Sample ID: 570-2268-A-2-L MS**  
**Matrix: Solid**  
**Analysis Batch: 8461**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 7445**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	24.9	11.63	F1	mg/Kg		47	50 - 115
Arsenic	4.23		24.9	30.86		mg/Kg		107	75 - 125
Barium	22.7		24.9	52.39		mg/Kg		119	75 - 125
Beryllium	ND		24.9	25.78		mg/Kg		103	75 - 125
Cadmium	1.03		24.9	27.01		mg/Kg		104	75 - 125
Chromium	2.96		24.9	29.98		mg/Kg		109	75 - 125
Cobalt	10.5		24.9	36.80		mg/Kg		106	75 - 125
Copper	91.6		24.9	121.3		mg/Kg		119	75 - 125
Lead	4.89		24.9	30.46		mg/Kg		103	75 - 125
Molybdenum	0.454		24.9	25.69		mg/Kg		101	75 - 125
Nickel	5.26		24.9	31.80		mg/Kg		107	75 - 125
Selenium	ND		24.9	24.24		mg/Kg		97	75 - 125
Silver	ND		12.4	12.55		mg/Kg		101	75 - 125
Thallium	ND		24.9	23.88		mg/Kg		96	75 - 125
Vanadium	25.2		24.9	55.04		mg/Kg		120	75 - 125
Zinc	561		24.9	683.6	4	mg/Kg		493	75 - 125

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-1

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

**Lab Sample ID: 570-2268-A-2-M MSD**  
**Matrix: Solid**  
**Analysis Batch: 8461**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 7445**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	ND	F1	24.3	11.24	F1	mg/Kg		46	50 - 115	3	20
Arsenic	4.23		24.3	29.26		mg/Kg		103	75 - 125	5	20
Barium	22.7		24.3	51.17		mg/Kg		117	75 - 125	2	20
Beryllium	ND		24.3	25.54		mg/Kg		104	75 - 125	1	20
Cadmium	1.03		24.3	26.61		mg/Kg		105	75 - 125	1	20
Chromium	2.96		24.3	29.21		mg/Kg		108	75 - 125	3	20
Cobalt	10.5		24.3	35.97		mg/Kg		105	75 - 125	2	20
Copper	91.6		24.3	119.7		mg/Kg		116	75 - 125	1	20
Lead	4.89		24.3	29.78		mg/Kg		103	75 - 125	2	20
Molybdenum	0.454		24.3	25.42		mg/Kg		103	75 - 125	1	20
Nickel	5.26		24.3	31.34		mg/Kg		107	75 - 125	1	20
Selenium	ND		24.3	24.56		mg/Kg		101	75 - 125	1	20
Silver	ND		12.1	12.30		mg/Kg		101	75 - 125	2	20
Thallium	ND		24.3	23.53		mg/Kg		97	75 - 125	1	20
Vanadium	25.2		24.3	53.71		mg/Kg		118	75 - 125	2	20
Zinc	561		24.3	664.2	4	mg/Kg		425	75 - 125	3	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-8080/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Mercury	ND		0.0833	mg/Kg		07/26/19 17:00	07/28/19 10:14	1

**Lab Sample ID: LCS 570-8080/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result				Qualifier
Mercury	0.833	0.7803		mg/Kg		94	85 - 121

**Lab Sample ID: LCSD 570-8080/3-A**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
		Added	Result				Qualifier		
Mercury	0.833	0.7799		mg/Kg		94	85 - 121	0	10

**Lab Sample ID: 570-2262-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: B4-5**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Mercury	ND	F2	0.820	0.7763		mg/Kg		95	71 - 137

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-1

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: 570-2262-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: B4-5**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND	F2	0.820	0.6188	F2	mg/Kg		75	71 - 137	23	14

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# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

## GC Semi VOA

### Prep Batch: 7410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	3550C	
570-2262-5	B4-25	Total/NA	Solid	3550C	
570-2262-16	B5-15	Total/NA	Solid	3550C	
570-2262-23	B5-55	Total/NA	Solid	3550C	
MB 570-7410/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-7410/2-A	Lab Control Sample	Total/NA	Solid	3550C	
570-2582-A-1-E MS	Matrix Spike	Total/NA	Solid	3550C	
570-2582-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

### Analysis Batch: 7484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	8015B	7410
570-2262-5	B4-25	Total/NA	Solid	8015B	7410
570-2262-16	B5-15	Total/NA	Solid	8015B	7410
570-2262-23	B5-55	Total/NA	Solid	8015B	7410
MB 570-7410/1-A	Method Blank	Total/NA	Solid	8015B	7410
LCS 570-7410/2-A	Lab Control Sample	Total/NA	Solid	8015B	7410
570-2582-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B	7410
570-2582-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	7410

## Metals

### Prep Batch: 7445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	3050B	
570-2262-5	B4-25	Total/NA	Solid	3050B	
570-2262-16	B5-15	Total/NA	Solid	3050B	
570-2262-23	B5-55	Total/NA	Solid	3050B	
MB 570-7445/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-7445/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-7445/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-2268-A-2-L MS	Matrix Spike	Total/NA	Solid	3050B	
570-2268-A-2-M MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

### Prep Batch: 8080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	7471A	
570-2262-5	B4-25	Total/NA	Solid	7471A	
570-2262-16	B5-15	Total/NA	Solid	7471A	
570-2262-23	B5-55	Total/NA	Solid	7471A	
MB 570-8080/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-8080/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-8080/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-2262-1 MS	B4-5	Total/NA	Solid	7471A	
570-2262-1 MSD	B4-5	Total/NA	Solid	7471A	

### Analysis Batch: 8442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	7471A	8080
570-2262-5	B4-25	Total/NA	Solid	7471A	8080
570-2262-16	B5-15	Total/NA	Solid	7471A	8080

Eurofins Calscience LLC

# QC Association Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

## Metals (Continued)

### Analysis Batch: 8442 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-23	B5-55	Total/NA	Solid	7471A	8080
MB 570-8080/1-A	Method Blank	Total/NA	Solid	7471A	8080
LCS 570-8080/2-A	Lab Control Sample	Total/NA	Solid	7471A	8080
LCSD 570-8080/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	8080
570-2262-1 MS	B4-5	Total/NA	Solid	7471A	8080
570-2262-1 MSD	B4-5	Total/NA	Solid	7471A	8080

### Analysis Batch: 8461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	6010B	7445
570-2262-5	B4-25	Total/NA	Solid	6010B	7445
570-2262-16	B5-15	Total/NA	Solid	6010B	7445
570-2262-23	B5-55	Total/NA	Solid	6010B	7445
MB 570-7445/1-A	Method Blank	Total/NA	Solid	6010B	7445
LCS 570-7445/2-A	Lab Control Sample	Total/NA	Solid	6010B	7445
LCSD 570-7445/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	7445
570-2268-A-2-L MS	Matrix Spike	Total/NA	Solid	6010B	7445
570-2268-A-2-M MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	7445

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

## Client Sample ID: B4-5

Date Collected: 07/17/19 11:30

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-1

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	3550C			10.1 g	10 mL	7410	07/24/19 13:35	CL	ECL 1
Total/NA	Analysis	8015B		1			7484	07/25/19 09:09	I9H5	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3050B			2.04 g	100 mL	7445	07/24/19 14:00	TA	ECL 1
Total/NA	Analysis	6010B		1			8461	07/28/19 17:38	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.63 g	100 mL	8080	07/26/19 17:00	TA	ECL 1
Total/NA	Analysis	7471A		1			8442	07/28/19 10:21	I3IN	ECL 1
Instrument ID: HG8										

## Client Sample ID: B4-25

Date Collected: 07/17/19 12:10

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-5

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	3550C			10.2 g	10 mL	7410	07/24/19 15:29	CL	ECL 1
Total/NA	Analysis	8015B		1			7484	07/25/19 09:30	I9H5	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3050B			2.06 g	100 mL	7445	07/24/19 14:00	TA	ECL 1
Total/NA	Analysis	6010B		1			8461	07/28/19 16:57	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.60 g	100 mL	8080	07/26/19 17:00	TA	ECL 1
Total/NA	Analysis	7471A		1			8442	07/28/19 10:28	I3IN	ECL 1
Instrument ID: HG8										

## Client Sample ID: B5-15

Date Collected: 07/18/19 08:15

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-16

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	3550C			10.0 g	10 mL	7410	07/24/19 15:29	CL	ECL 1
Total/NA	Analysis	8015B		1			7484	07/25/19 09:50	I9H5	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3050B			1.95 g	100 mL	7445	07/24/19 14:00	TA	ECL 1
Total/NA	Analysis	6010B		1			8461	07/28/19 16:59	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.60 g	100 mL	8080	07/26/19 17:00	TA	ECL 1
Total/NA	Analysis	7471A		1			8442	07/28/19 10:30	I3IN	ECL 1
Instrument ID: HG8										

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

**Client Sample ID: B5-55**

**Lab Sample ID: 570-2262-23**

**Date Collected: 07/18/19 09:15**

**Matrix: Solid**

**Date Received: 07/18/19 13:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			10.1 g	10 mL	7410	07/24/19 15:29	CL	ECL 1
Total/NA	Analysis	8015B		1			7484	07/25/19 10:10	I9H5	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3050B			2.07 g	100 mL	7445	07/24/19 14:00	TA	ECL 1
Total/NA	Analysis	6010B		1			8461	07/28/19 17:01	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.62 g	100 mL	8080	07/26/19 17:00	TA	ECL 1
Total/NA	Analysis	7471A		1			8442	07/28/19 10:33	I3IN	ECL 1
Instrument ID: HG8										

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494





# Accreditation/Certification Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-1

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3550C	Ultrasonic Extraction	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



# Sample Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2262-1	B4-5	Solid	07/17/19 11:30	07/18/19 13:30	
570-2262-5	B4-25	Solid	07/17/19 12:10	07/18/19 13:30	
570-2262-16	B5-15	Solid	07/18/19 08:15	07/18/19 13:30	
570-2262-23	B5-55	Solid	07/18/19 09:15	07/18/19 13:30	

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570-2262 Chain of Custody

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For courier service / sample drop off information, contact us26

DATE: 7/18/2019

PAGE: 1 OF 3

WO # / LAB USE ONLY

LABORATORY CLIENT: **Citadel EHS**  
 ADDRESS: **1725 Victory Blvd**  
 CITY: **Glendale** STATE: **CA** ZIP: **91201**  
 TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II** P.O. NO.: **1234.1003**  
**1234.1003**  
 PROJECT CONTACT: **Mike Pendergrass** SAMPLER(S): (PRINT) **Megan Roughan**  
**mpendergrass@citadelehs.com**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain <sup>EPA 8015M</sup>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
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SPECIAL INSTRUCTIONS:  
 Please hold all samples except for B4-5, B4-25, B5-15, and B5-55

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain <sup>EPA 8015M</sup>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6				
		DATE	TIME																							
1	B4-5	7/17/19	1130	Soil	1	X						X										X			Do not hold	
2	B4-10		1140			X						X										X				
3	B4-15		1150			X						X										X				HOLD
4	B4-20		1200			X						X										X				
5	B4-25		1210			X						X										X				Do not hold
6	B4-30		1215			X						X										X				
7	B4-35		1220			X						X										X				
8	B4-40		1225			X						X										X				HOLD
9	B4-45		1235			X						X										X				
10	B4-50		1245			X						X										X				

Relinquished by: (Signature) *M. Ryle*  
 Relinquished by: (Signature) *Santos, Luter*  
 Relinquished by: (Signature)

Received by: (Signature/Affiliation) *Santos, Luter*  
 Received by: (Signature/Affiliation) *[Signature]*  
 Received by: (Signature/Affiliation)

Date: 7/18/19 Time: 11:55  
 Date: 07/18/19 Time: 13:30  
 Date: Time:

5.7°C/5.9°C ; SCG



Calscience

CHAIN OF CUSTODY RECORD 2262

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For courier service / sample drop off information, contact us26\_sales@eurofinsus.com or call us.

WO # / LAB USE ONLY

DATE: 7/18/2019  
PAGE: 2 OF 3

LABORATORY CLIENT: **Citadel EHS**  
ADDRESS: **1725 Victory Blvd**  
CITY: **Glendale** STATE: **CA** ZIP: **91201**  
TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**  
**1234-1003**  
PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**  
P.O. NO.: **1234.1003**  
SAMPLER(S): (PRINT)  
**Megan Roughan**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:  
**Please hold all samples except for B4-5, B4-25, B5-15, and B5-55**

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input checked="" type="checkbox"/> <b>TPH Full Carbon Chain EPA 8015M</b>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260) <input type="checkbox"/>	Oxygenates (8260) <input type="checkbox"/>	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270) <input type="checkbox"/>	Pesticides (8081) <input type="checkbox"/>	PCBs (8082) <input type="checkbox"/>	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
--	--	---	--	--	--------------------------------------	--	--	---------------------------------------	--	--------------------------------------	--	---	---

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input checked="" type="checkbox"/> <b>TPH Full Carbon Chain EPA 8015M</b>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260) <input type="checkbox"/>	Oxygenates (8260) <input type="checkbox"/>	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270) <input type="checkbox"/>	Pesticides (8081) <input type="checkbox"/>	PCBs (8082) <input type="checkbox"/>	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6						
		DATE	TIME																									
11	B4-55	7/17/19	1250	Soil	1	X						X										X						
12	B4-60		1255			X						X										X						
13	B4-GW	7/17/19	1230	Water	3		X							X														
14	B5-5	7/18/19	0800	Soil	1	X						X										X						
15	B5-10		0810			X						X										X						
16	B5-15		0815			X						X										X						
17	B5-20		0820			X						X										X						
18	B5-25		0825			X						X										X						
19	B5-30		0830			X						X										X						
20	B5- <del>30</del> 40 MR		0850			X						X										X						

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>Santos Lopez</i>	Date: <u>7/18/19</u>	Time: <u>11:55</u>
Relinquished by: (Signature) <i>Santos Lopez</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: <u>07/18/19</u>	Time: <u>13:30</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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8/2/2019



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494  
For courier service / sample drop off information, contact us 26 sales@eurofins.com or call us.

WO # / LAB USE ONLY

DATE: 7/18/2019  
PAGE: 3 OF 3

LABORATORY CLIENT: Citadel EHS  
ADDRESS: 1725 Victory Blvd  
CITY: Glendale STATE: CA ZIP: 91201  
TEL: 818-246-2707 E-MAIL: mpendergrass@citadelehs.com

CLIENT PROJECT NAME / NUMBER: 333 S. San Vicente Blvd Phase II  
PROJECT CONTACT: Mike Pendergrass  
mpendergrass@citadelehs.com

P.O. NO.: 1234.1003  
SAMPLER(S): (PRINT) Megan Roughan

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES  
Please check box or fill in blank as needed.

SPECIAL INSTRUCTIONS:  
Please hold all samples except for B4-5, B4-25, B5-15, and B5-55

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain EPA 8015	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6							
		DATE	TIME																										
21	B5-45	7/18/19	0900	soil	1	X						X									X								
22	B5-50		0910			X						X									X								
23	B5-55		0915			X						X									X								
24	B5-60		0920			X						X									X								
25	B5-GW	7/18/19	0840	water	3		X							X															

Relinquished by: (Signature) <i>Mary Ryle</i>	Received by: (Signature/Affiliation) <i>Sandy West</i>	Date: 7/18/19	Time: 11:55
Relinquished by: (Signature) <i>Sandy West</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 07/10/19	Time: 13:30
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:





# Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2262-1

**Login Number: 2262**

**List Number: 1**

**Creator: Castro, Joy**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## ANALYTICAL REPORT

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

Laboratory Job ID: 570-2262-2

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



---

Authorized for release by:  
8/2/2019 1:54:54 PM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

**Job ID: 570-2262-2**

**Laboratory: Eurofins Calscience LLC**

## Narrative

### Job Narrative 570-2262-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/18/2019 1:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.9° C.

#### Receipt Exceptions

The following volatile sample was analyzed with significant headspace in the sample container(s): B5-GW (570-2262-25). Significant headspace is defined as a bubble greater than 6 mm in diameter. 3 of 3 vials received with headspace.

#### GC/MS VOA

Method(s) 8260B: Matrix spike / matrix spike duplicate (MS/MSD) recoveries were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The laboratory control sample (LCS) for preparation batch 570-8999 and analytical batch 570-9004 recovered outside control limits for the following analyte: Dichlorodifluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

#### VOA Prep

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

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

## Client Sample ID: B4-5

Lab Sample ID: 570-2262-1

No Detections.

## Client Sample ID: B4-15

Lab Sample ID: 570-2262-3

No Detections.

## Client Sample ID: B4-25

Lab Sample ID: 570-2262-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	64		4.9	ug/Kg	1		8260B	Total/NA
Trichloroethene	18		4.9	ug/Kg	1		8260B	Total/NA

## Client Sample ID: B4-30

Lab Sample ID: 570-2262-6

No Detections.

## Client Sample ID: B4-40

Lab Sample ID: 570-2262-8

No Detections.

## Client Sample ID: B4-50

Lab Sample ID: 570-2262-10

No Detections.

## Client Sample ID: B5-10

Lab Sample ID: 570-2262-15

No Detections.

## Client Sample ID: B5-20

Lab Sample ID: 570-2262-17

No Detections.

## Client Sample ID: B5-30

Lab Sample ID: 570-2262-19

No Detections.

## Client Sample ID: B5-40

Lab Sample ID: 570-2262-20

No Detections.

## Client Sample ID: B5-50

Lab Sample ID: 570-2262-22

No Detections.

## Client Sample ID: B5-60

Lab Sample ID: 570-2262-24

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-5**  
**Date Collected: 07/17/19 11:30**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Benzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Bromobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Bromochloromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Bromodichloromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Bromoform	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Bromomethane	ND		24	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
2-Butanone	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Carbon disulfide	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Chlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Chloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Chloroform	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Chloromethane	ND		24	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
2-Chlorotoluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
4-Chlorotoluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
cis-1,3-Dichloropropene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Dibromochloromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2-Dibromo-3-Chloropropane	ND		9.8	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2-Dibromoethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Dibromomethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,3-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,4-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Dichlorodifluoromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1-Dichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2-Dichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2-Dichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,3-Dichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1-Dichloropropene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Di-isopropyl ether (DIPE)	ND		9.8	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Ethanol	ND		240	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Ethylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Ethyl-t-butyl ether (ETBE)	ND		9.8	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
2-Hexanone	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Isopropylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Methylene Chloride	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
4-Methyl-2-pentanone	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
m,p-Xylene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Naphthalene	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
n-Butylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
N-Propylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
o-Xylene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
p-Isopropyltoluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
sec-Butylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-5**  
**Date Collected: 07/17/19 11:30**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Tert-amyl-methyl ether (TAME)	ND		9.8	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
tert-Butyl alcohol (TBA)	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
tert-Butylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1,1,2-Tetrachloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1,1,2,2-Tetrachloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Tetrachloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Toluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
trans-1,2-Dichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
trans-1,3-Dichloropropene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2,3-Trichlorobenzene	ND		9.8	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2,4-Trichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1,2-Trichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Trichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Trichlorofluoromethane	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2,3-Trichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,2,4-Trimethylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
1,3,5-Trimethylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Vinyl acetate	ND		49	ug/Kg		07/30/19 15:10	07/30/19 16:42	1
Vinyl chloride	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	93		80 - 120	07/30/19 15:10	07/30/19 16:42	1
<i>Dibromofluoromethane</i>	107		79 - 133	07/30/19 15:10	07/30/19 16:42	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	115		71 - 155	07/30/19 15:10	07/30/19 16:42	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120	07/30/19 15:10	07/30/19 16:42	1

**Client Sample ID: B4-15**  
**Date Collected: 07/17/19 11:50**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-15**  
**Date Collected: 07/17/19 11:50**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Toluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-15**  
**Date Collected: 07/17/19 11:50**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120			07/30/19 15:10	07/30/19 17:08	1
Dibromofluoromethane	108		79 - 133			07/30/19 15:10	07/30/19 17:08	1
1,2-Dichloroethane-d4 (Surr)	117		71 - 155			07/30/19 15:10	07/30/19 17:08	1
Toluene-d8 (Surr)	101		80 - 120			07/30/19 15:10	07/30/19 17:08	1

**Client Sample ID: B4-25**  
**Date Collected: 07/17/19 12:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Benzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Bromobenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Bromochloromethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Bromodichloromethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Bromoform	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Bromomethane	ND		24	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
2-Butanone	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Carbon disulfide	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Chlorobenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Chloroethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Chloroform	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Chloromethane	ND		24	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
2-Chlorotoluene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
4-Chlorotoluene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
cis-1,3-Dichloropropene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Dibromochloromethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2-Dibromo-3-Chloropropane	ND		9.8	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2-Dibromoethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Dibromomethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,3-Dichlorobenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,4-Dichlorobenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Dichlorodifluoromethane	ND *		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1-Dichloroethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2-Dichloroethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2-Dichloropropane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,3-Dichloropropane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1-Dichloropropene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Di-isopropyl ether (DIPE)	ND		9.8	ug/Kg		07/31/19 12:05	07/31/19 15:44	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-25**  
**Date Collected: 07/17/19 12:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		240	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Ethylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Ethyl-t-butyl ether (ETBE)	ND		9.8	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
2-Hexanone	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Isopropylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Methylene Chloride	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
4-Methyl-2-pentanone	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
m,p-Xylene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Naphthalene	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
n-Butylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
N-Propylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
o-Xylene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
p-Isopropyltoluene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
sec-Butylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Styrene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Tert-amyl-methyl ether (TAME)	ND		9.8	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
tert-Butyl alcohol (TBA)	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
tert-Butylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1,1,2-Tetrachloroethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1,2,2-Tetrachloroethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
<b>Tetrachloroethene</b>	<b>64</b>		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Toluene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
trans-1,2-Dichloroethene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
trans-1,3-Dichloropropene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2,3-Trichlorobenzene	ND		9.8	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2,4-Trichlorobenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1,2-Trichloroethane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
<b>Trichloroethene</b>	<b>18</b>		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Trichlorofluoromethane	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2,3-Trichloropropane	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,2,4-Trimethylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
1,3,5-Trimethylbenzene	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Vinyl acetate	ND		49	ug/Kg		07/31/19 12:05	07/31/19 15:44	1
Vinyl chloride	ND		4.9	ug/Kg		07/31/19 12:05	07/31/19 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120	07/31/19 12:05	07/31/19 15:44	1
Dibromofluoromethane	102		79 - 133	07/31/19 12:05	07/31/19 15:44	1
1,2-Dichloroethane-d4 (Surr)	98		71 - 155	07/31/19 12:05	07/31/19 15:44	1
Toluene-d8 (Surr)	99		80 - 120	07/31/19 12:05	07/31/19 15:44	1

**Client Sample ID: B4-30**  
**Date Collected: 07/17/19 12:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-30**  
**Date Collected: 07/17/19 12:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:00	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:00	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-30**  
**Date Collected: 07/17/19 12:15**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-6**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		50	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
tert-Butylbenzene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
Tetrachloroethene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
Toluene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
Trichloroethene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
Trichlorofluoromethane	ND		50	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
Vinyl acetate	ND		50	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1
Vinyl chloride	ND		5.0	ug/Kg	-	07/30/19 15:10	07/30/19 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120	07/30/19 15:10	07/30/19 18:00	1
Dibromofluoromethane	109		79 - 133	07/30/19 15:10	07/30/19 18:00	1
1,2-Dichloroethane-d4 (Surr)	122		71 - 155	07/30/19 15:10	07/30/19 18:00	1
Toluene-d8 (Surr)	100		80 - 120	07/30/19 15:10	07/30/19 18:00	1

**Client Sample ID: B4-40**  
**Date Collected: 07/17/19 12:25**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Benzene	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Bromobenzene	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Bromochloromethane	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Bromodichloromethane	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Bromoform	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Bromomethane	ND		25	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
2-Butanone	ND		51	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Carbon disulfide	ND		51	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Carbon tetrachloride	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Chlorobenzene	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Chloroethane	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Chloroform	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Chloromethane	ND		25	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
2-Chlorotoluene	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
4-Chlorotoluene	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1
Dibromochloromethane	ND		5.1	ug/Kg	-	07/30/19 15:10	07/30/19 18:26	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-40**  
**Date Collected: 07/17/19 12:25**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Dibromomethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Ethylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
2-Hexanone	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Isopropylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Methylene Chloride	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
m,p-Xylene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Naphthalene	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
n-Butylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
N-Propylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
o-Xylene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Styrene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Tetrachloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Toluene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Trichloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Trichlorofluoromethane	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-40**  
**Date Collected: 07/17/19 12:25**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Vinyl acetate	ND		51	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Vinyl chloride	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 18:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120			07/30/19 15:10	07/30/19 18:26	1
Dibromofluoromethane	109		79 - 133			07/30/19 15:10	07/30/19 18:26	1
1,2-Dichloroethane-d4 (Surr)	121		71 - 155			07/30/19 15:10	07/30/19 18:26	1
Toluene-d8 (Surr)	101		80 - 120			07/30/19 15:10	07/30/19 18:26	1

**Client Sample ID: B4-50**  
**Date Collected: 07/17/19 12:45**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2-Dibromo-3-Chloropropane	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Di-isopropyl ether (DIPE)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B4-50**  
**Date Collected: 07/17/19 12:45**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Tert-amyl-methyl ether (TAME)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Toluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2,3-Trichlorobenzene	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 15:10	07/30/19 18:52	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	07/30/19 15:10	07/30/19 18:52	1
Dibromofluoromethane	108		79 - 133	07/30/19 15:10	07/30/19 18:52	1
1,2-Dichloroethane-d4 (Surr)	121		71 - 155	07/30/19 15:10	07/30/19 18:52	1
Toluene-d8 (Surr)	101		80 - 120	07/30/19 15:10	07/30/19 18:52	1

**Client Sample ID: B5-10**  
**Date Collected: 07/18/19 08:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-15**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Benzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Bromobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Bromochloromethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-10**  
**Date Collected: 07/18/19 08:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-15**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Bromoform	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
2-Butanone	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Carbon disulfide	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Carbon tetrachloride	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Chlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Chloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Chloroform	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
2-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
4-Chlorotoluene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
cis-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
cis-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Dibromochloromethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2-Dibromoethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Dibromomethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,3-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,4-Dichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Dichlorodifluoromethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,1-Dichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2-Dichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,1-Dichloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,3-Dichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
2,2-Dichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,1-Dichloropropene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Ethylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
2-Hexanone	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Isopropylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Methylene Chloride	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
4-Methyl-2-pentanone	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
m,p-Xylene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Naphthalene	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
n-Butylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
N-Propylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
o-Xylene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
p-Isopropyltoluene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
sec-Butylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Styrene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
tert-Butyl alcohol (TBA)	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
tert-Butylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-10**  
**Date Collected: 07/18/19 08:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-15**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,1,2,2-Tetrachloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Tetrachloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Toluene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
trans-1,2-Dichloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
trans-1,3-Dichloropropene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2,4-Trichlorobenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,1,1-Trichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,1,2-Trichloroethane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Trichloroethene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Trichlorofluoromethane	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2,3-Trichloropropane	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,2,4-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
1,3,5-Trimethylbenzene	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Vinyl acetate	ND		51	ug/Kg		07/30/19 15:10	07/30/19 19:19	1
Vinyl chloride	ND		5.1	ug/Kg		07/30/19 15:10	07/30/19 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	07/30/19 15:10	07/30/19 19:19	1
Dibromofluoromethane	106		79 - 133	07/30/19 15:10	07/30/19 19:19	1
1,2-Dichloroethane-d4 (Surr)	114		71 - 155	07/30/19 15:10	07/30/19 19:19	1
Toluene-d8 (Surr)	100		80 - 120	07/30/19 15:10	07/30/19 19:19	1

**Client Sample ID: B5-20**  
**Date Collected: 07/18/19 08:20**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-17**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-20**  
**Date Collected: 07/18/19 08:20**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-17**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Toluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 15:10	07/30/19 19:45	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-20**  
**Date Collected: 07/18/19 08:20**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-17**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 19:45	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)	94		80 - 120			07/30/19 15:10	07/30/19 19:45	1
Dibromofluoromethane	106		79 - 133			07/30/19 15:10	07/30/19 19:45	1
1,2-Dichloroethane-d4 (Surr)	113		71 - 155			07/30/19 15:10	07/30/19 19:45	1
Toluene-d8 (Surr)	100		80 - 120			07/30/19 15:10	07/30/19 19:45	1

**Client Sample ID: B5-30**  
**Date Collected: 07/18/19 08:30**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-19**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2-Dibromo-3-Chloropropane	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Di-isopropyl ether (DIPE)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Ethyl-t-butyl ether (ETBE)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-30**  
**Date Collected: 07/18/19 08:30**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-19**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Tert-amyl-methyl ether (TAME)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Toluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2,3-Trichlorobenzene	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:12	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	07/30/19 15:10	07/30/19 20:12	1
Dibromofluoromethane	107		79 - 133	07/30/19 15:10	07/30/19 20:12	1
1,2-Dichloroethane-d4 (Surr)	116		71 - 155	07/30/19 15:10	07/30/19 20:12	1
Toluene-d8 (Surr)	102		80 - 120	07/30/19 15:10	07/30/19 20:12	1

**Client Sample ID: B5-40**  
**Date Collected: 07/18/19 08:50**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-20**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-40**  
**Date Collected: 07/18/19 08:50**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-20**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-40**  
**Date Collected: 07/18/19 08:50**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-20**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Toluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 15:10	07/30/19 20:38	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	07/30/19 15:10	07/30/19 20:38	1
Dibromofluoromethane	107		79 - 133	07/30/19 15:10	07/30/19 20:38	1
1,2-Dichloroethane-d4 (Surr)	120		71 - 155	07/30/19 15:10	07/30/19 20:38	1
Toluene-d8 (Surr)	100		80 - 120	07/30/19 15:10	07/30/19 20:38	1

**Client Sample ID: B5-50**  
**Date Collected: 07/18/19 09:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-22**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2-Dibromo-3-Chloropropane	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-50**  
**Date Collected: 07/18/19 09:10**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-22**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Di-isopropyl ether (DIPE)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Ethanol	ND		250	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Ethyl-t-butyl ether (ETBE)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Tert-amyl-methyl ether (TAME)	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Toluene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2,3-Trichlorobenzene	ND		9.9	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 15:10	07/30/19 21:04	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 15:10	07/30/19 21:04	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120	07/30/19 15:10	07/30/19 21:04	1
Dibromofluoromethane	107		79 - 133	07/30/19 15:10	07/30/19 21:04	1
1,2-Dichloroethane-d4 (Surr)	117		71 - 155	07/30/19 15:10	07/30/19 21:04	1
Toluene-d8 (Surr)	99		80 - 120	07/30/19 15:10	07/30/19 21:04	1

**Client Sample ID: B5-60**  
**Date Collected: 07/18/19 09:20**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-24**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Benzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Bromobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Bromochloromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Bromodichloromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Bromoform	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Bromomethane	ND		24	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
2-Butanone	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Carbon disulfide	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Chlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Chloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Chloroform	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Chloromethane	ND		24	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
2-Chlorotoluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
4-Chlorotoluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
cis-1,3-Dichloropropene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Dibromochloromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2-Dibromo-3-Chloropropane	ND		9.7	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2-Dibromoethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Dibromomethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,3-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,4-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Dichlorodifluoromethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1-Dichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2-Dichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2-Dichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,3-Dichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1-Dichloropropene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Di-isopropyl ether (DIPE)	ND		9.7	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Ethanol	ND		240	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Ethylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Ethyl-t-butyl ether (ETBE)	ND		9.7	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
2-Hexanone	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Isopropylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Methylene Chloride	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
4-Methyl-2-pentanone	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
m,p-Xylene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Client Sample ID: B5-60**  
**Date Collected: 07/18/19 09:20**  
**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-24**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
n-Butylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
N-Propylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
o-Xylene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
p-Isopropyltoluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
sec-Butylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Styrene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Tert-amyl-methyl ether (TAME)	ND		9.7	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
tert-Butyl alcohol (TBA)	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
tert-Butylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1,1,2-Tetrachloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1,1,2,2-Tetrachloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Tetrachloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Toluene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
trans-1,2-Dichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
trans-1,3-Dichloropropene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2,3-Trichlorobenzene	ND		9.7	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2,4-Trichlorobenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1,2-Trichloroethane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Trichloroethene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Trichlorofluoromethane	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2,3-Trichloropropane	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,2,4-Trimethylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
1,3,5-Trimethylbenzene	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Vinyl acetate	ND		49	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Vinyl chloride	ND		4.9	ug/Kg		07/30/19 15:10	07/30/19 21:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120			07/30/19 15:10	07/30/19 21:29	1
Dibromofluoromethane	102		79 - 133			07/30/19 15:10	07/30/19 21:29	1
1,2-Dichloroethane-d4 (Surr)	114		71 - 155			07/30/19 15:10	07/30/19 21:29	1
Toluene-d8 (Surr)	100		80 - 120			07/30/19 15:10	07/30/19 21:29	1

# Surrogate Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(80-120)	(79-133)	(71-155)	(80-120)
570-2262-1	B4-5	93	107	115	100
570-2262-3	B4-15	96	108	117	101
570-2262-5	B4-25	91	102	98	99
570-2262-6	B4-30	95	109	122	100
570-2262-8	B4-40	95	109	121	101
570-2262-10	B4-50	94	108	121	101
570-2262-15	B5-10	94	106	114	100
570-2262-17	B5-20	94	106	113	100
570-2262-19	B5-30	94	107	116	102
570-2262-20	B5-40	94	107	120	100
570-2262-22	B5-50	96	107	117	99
570-2262-24	B5-60	96	102	114	100
570-2442-A-1-G MS	Matrix Spike	102	107	104	102
570-2442-A-1-H MSD	Matrix Spike Duplicate	102	103	102	99
570-2842-A-1-N MS	Matrix Spike	103	109	111	101
570-2842-A-1-O MSD	Matrix Spike Duplicate	103	109	108	102
LCS 570-8687/2-A	Lab Control Sample	99	105	97	102
LCS 570-8999/2-A	Lab Control Sample	103	106	103	102
MB 570-8687/1-A	Method Blank	94	107	113	101
MB 570-8999/1-A	Method Blank	98	105	105	99

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane  
DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Lab Sample ID: MB 570-8687/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8688**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8687**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Benzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Bromoform	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Bromomethane	ND		25	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
2-Butanone	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Chloroform	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Chloromethane	ND		25	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Ethanol	ND		250	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
2-Hexanone	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Naphthalene	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1



# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Lab Sample ID: MB 570-8687/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8688**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8687**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Styrene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Toluene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 08:30	07/30/19 12:38	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 08:30	07/30/19 12:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	07/30/19 08:30	07/30/19 12:38	1
Dibromofluoromethane	107		79 - 133	07/30/19 08:30	07/30/19 12:38	1
1,2-Dichloroethane-d4 (Surr)	113		71 - 155	07/30/19 08:30	07/30/19 12:38	1
Toluene-d8 (Surr)	101		80 - 120	07/30/19 08:30	07/30/19 12:38	1

**Lab Sample ID: LCS 570-8687/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8688**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8687**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	51.0	49.55		ug/Kg		97	78 - 120
Carbon tetrachloride	51.0	50.04		ug/Kg		98	49 - 139
Chlorobenzene	51.0	48.09		ug/Kg		94	79 - 120
1,2-Dibromoethane	51.0	49.30		ug/Kg		97	70 - 130
1,2-Dichlorobenzene	51.0	50.59		ug/Kg		99	75 - 120
1,2-Dichloroethane	51.0	46.84		ug/Kg		92	70 - 130
1,1-Dichloroethene	51.0	48.54		ug/Kg		95	74 - 122
Di-isopropyl ether (DIPE)	51.0	53.74		ug/Kg		105	78 - 120
Ethanol	510	511.1		ug/Kg		100	56 - 140
Ethylbenzene	51.0	48.33		ug/Kg		95	76 - 120
Ethyl-t-butyl ether (ETBE)	51.0	49.08		ug/Kg		96	70 - 124
Methyl-t-Butyl Ether (MTBE)	51.0	46.43		ug/Kg		91	70 - 124
m,p-Xylene	102	101.8		ug/Kg		100	70 - 130



# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-2

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

**Lab Sample ID: LCS 570-8687/2-A**

**Matrix: Solid**

**Analysis Batch: 8688**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 8687**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	51.0	49.98		ug/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane	105		79 - 133
1,2-Dichloroethane-d4 (Surr)	97		71 - 155
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: 570-2842-A-1-N MS**

**Matrix: Solid**

**Analysis Batch: 8688**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 8687**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.5	36.23		ug/Kg		72	61 - 127
Carbon tetrachloride	ND		50.5	35.91		ug/Kg		71	51 - 135
Chlorobenzene	ND		50.5	35.57		ug/Kg		70	57 - 123
1,2-Dibromoethane	ND		50.5	45.82		ug/Kg		91	64 - 124
1,2-Dichlorobenzene	ND		50.5	38.19		ug/Kg		76	35 - 131
1,2-Dichloroethane	ND		50.5	41.43		ug/Kg		82	70 - 130
1,1-Dichloroethene	ND		50.5	35.25		ug/Kg		70	47 - 143
Di-isopropyl ether (DIPE)	ND		50.5	41.44		ug/Kg		82	57 - 129
Ethanol	ND		50.5	453.7		ug/Kg		90	17 - 167
Ethylbenzene	ND	F2	50.5	33.84		ug/Kg		67	57 - 129
Ethyl-t-butyl ether (ETBE)	ND		50.5	38.52		ug/Kg		76	55 - 127
Methyl-t-Butyl Ether (MTBE)	ND		50.5	39.74		ug/Kg		79	57 - 123
m,p-Xylene	ND	F2	101	72.62		ug/Kg		72	70 - 130
o-Xylene	ND	F2	50.5	35.15		ug/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane	109		79 - 133
1,2-Dichloroethane-d4 (Surr)	111		71 - 155
Toluene-d8 (Surr)	101		80 - 120

**Lab Sample ID: 570-2842-A-1-O MSD**

**Matrix: Solid**

**Analysis Batch: 8688**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 8687**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		50.4	44.06		ug/Kg		87	61 - 127	19	20
Carbon tetrachloride	ND		50.4	47.59		ug/Kg		94	51 - 135	28	29
Chlorobenzene	ND		50.4	43.47		ug/Kg		86	57 - 123	20	20
1,2-Dibromoethane	ND		50.4	46.89		ug/Kg		93	64 - 124	2	20
1,2-Dichlorobenzene	ND		50.4	45.35		ug/Kg		90	35 - 131	17	25
1,2-Dichloroethane	ND		50.4	44.82		ug/Kg		89	70 - 130	8	20
1,1-Dichloroethene	ND		50.4	44.86		ug/Kg		89	47 - 143	24	25
Di-isopropyl ether (DIPE)	ND		50.4	48.66		ug/Kg		97	57 - 129	16	20
Ethanol	ND		50.4	431.9		ug/Kg		86	17 - 167	5	47

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Lab Sample ID: 570-2842-A-1-O MSD**

**Matrix: Solid**  
**Analysis Batch: 8688**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**  
**Prep Batch: 8687**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND	F2	50.4	44.61	F2	ug/Kg		88	57 - 129	27	22
Ethyl-t-butyl ether (ETBE)	ND		50.4	45.76		ug/Kg		91	55 - 127	17	20
Methyl-t-Butyl Ether (MTBE)	ND		50.4	43.71		ug/Kg		87	57 - 123	10	21
m,p-Xylene	ND	F2	101	93.36	F2	ug/Kg		93	70 - 130	25	20
o-Xylene	ND	F2	50.4	45.39	F2	ug/Kg		90	70 - 130	25	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane	109		79 - 133
1,2-Dichloroethane-d4 (Surr)	108		71 - 155
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: MB 570-8999/1-A**

**Matrix: Solid**  
**Analysis Batch: 9004**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**  
**Prep Batch: 8999**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Benzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Bromobenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Bromochloromethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Bromodichloromethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Bromoform	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Bromomethane	ND		25	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
2-Butanone	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Carbon disulfide	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Chlorobenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Chloroethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Chloroform	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Chloromethane	ND		25	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Dibromochloromethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Dibromomethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1

Eurofins Calscience LLC

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Lab Sample ID: MB 570-8999/1-A**  
**Matrix: Solid**  
**Analysis Batch: 9004**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8999**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Ethanol	ND		250	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Ethylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
2-Hexanone	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Isopropylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Methylene Chloride	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
m,p-Xylene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Naphthalene	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
n-Butylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
N-Propylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
o-Xylene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Styrene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Tetrachloroethene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Toluene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Trichloroethene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Trichlorofluoromethane	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Vinyl acetate	ND		50	ug/Kg		07/31/19 08:55	07/31/19 12:04	1
Vinyl chloride	ND		5.0	ug/Kg		07/31/19 08:55	07/31/19 12:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120	07/31/19 08:55	07/31/19 12:04	1
Dibromofluoromethane	105		79 - 133	07/31/19 08:55	07/31/19 12:04	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 155	07/31/19 08:55	07/31/19 12:04	1
Toluene-d8 (Surr)	99		80 - 120	07/31/19 08:55	07/31/19 12:04	1

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

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

**Lab Sample ID: LCS 570-8999/2-A**  
**Matrix: Solid**  
**Analysis Batch: 9004**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8999**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.1	54.22		ug/Kg		108	78 - 120
Carbon tetrachloride	50.1	54.29		ug/Kg		108	49 - 139
Chlorobenzene	50.1	49.61		ug/Kg		99	79 - 120
1,2-Dibromoethane	50.1	49.82		ug/Kg		99	70 - 130
1,2-Dichlorobenzene	50.1	53.23		ug/Kg		106	75 - 120
1,2-Dichloroethane	50.1	56.35		ug/Kg		112	70 - 130
1,1-Dichloroethene	50.1	51.42		ug/Kg		103	74 - 122
Di-isopropyl ether (DIPE)	50.1	51.26		ug/Kg		102	78 - 120
Ethanol	50.1	462.2		ug/Kg		92	56 - 140
Ethylbenzene	50.1	51.49		ug/Kg		103	76 - 120
Ethyl-t-butyl ether (ETBE)	50.1	50.06		ug/Kg		100	70 - 124
Methyl-t-Butyl Ether (MTBE)	50.1	44.91		ug/Kg		90	70 - 124
m,p-Xylene	100	100.1		ug/Kg		100	70 - 130
o-Xylene	50.1	50.38		ug/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane	106		79 - 133
1,2-Dichloroethane-d4 (Surr)	103		71 - 155
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: 570-2442-A-1-G MS**  
**Matrix: Solid**  
**Analysis Batch: 9004**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 8999**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND	F2	50.5	36.56		ug/Kg		72	61 - 127
Carbon tetrachloride	ND	F2	50.5	35.29		ug/Kg		70	51 - 135
Chlorobenzene	ND	F2	50.5	36.32		ug/Kg		72	57 - 123
1,2-Dibromoethane	ND		50.5	41.37		ug/Kg		82	64 - 124
1,2-Dichlorobenzene	ND	F2	50.5	40.40		ug/Kg		80	35 - 131
1,2-Dichloroethane	ND	F2	50.5	45.54		ug/Kg		90	70 - 130
1,1-Dichloroethene	ND	F2	50.5	33.45		ug/Kg		66	47 - 143
Di-isopropyl ether (DIPE)	ND	F2	50.5	39.06		ug/Kg		77	57 - 129
Ethanol	ND		50.5	511.5		ug/Kg		101	17 - 167
Ethylbenzene	ND	F2	50.5	35.48		ug/Kg		70	57 - 129
Ethyl-t-butyl ether (ETBE)	ND	F2	50.5	39.37		ug/Kg		78	55 - 127
Methyl-t-Butyl Ether (MTBE)	ND		50.5	38.70		ug/Kg		75	57 - 123
m,p-Xylene	ND	F1 F2	101	68.24	F1	ug/Kg		68	70 - 130
o-Xylene	ND	F1 F2	50.5	34.60	F1	ug/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane	107		79 - 133
1,2-Dichloroethane-d4 (Surr)	104		71 - 155
Toluene-d8 (Surr)	102		80 - 120

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-2

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

**Lab Sample ID: 570-2442-A-1-H MSD**

**Matrix: Solid**

**Analysis Batch: 9004**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 8999**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	ND	F2	51.3	48.70	F2	ug/Kg		95	61 - 127	28	20
Carbon tetrachloride	ND	F2	51.3	47.95	F2	ug/Kg		93	51 - 135	30	29
Chlorobenzene	ND	F2	51.3	47.70	F2	ug/Kg		93	57 - 123	27	20
1,2-Dibromoethane	ND		51.3	50.20		ug/Kg		98	64 - 124	19	20
1,2-Dichlorobenzene	ND	F2	51.3	53.26	F2	ug/Kg		104	35 - 131	27	25
1,2-Dichloroethane	ND	F2	51.3	56.26	F2	ug/Kg		110	70 - 130	21	20
1,1-Dichloroethene	ND	F2	51.3	45.62	F2	ug/Kg		89	47 - 143	31	25
Di-isopropyl ether (DIPE)	ND	F2	51.3	49.94	F2	ug/Kg		97	57 - 129	24	20
Ethanol	ND		51.3	597.2		ug/Kg		116	17 - 167	15	47
Ethylbenzene	ND	F2	51.3	46.86	F2	ug/Kg		91	57 - 129	28	22
Ethyl-t-butyl ether (ETBE)	ND	F2	51.3	48.89	F2	ug/Kg		95	55 - 127	22	20
Methyl-t-Butyl Ether (MTBE)	ND		51.3	47.47		ug/Kg		91	57 - 123	20	21
m,p-Xylene	ND	F1 F2	103	92.11	F2	ug/Kg		90	70 - 130	30	20
o-Xylene	ND	F1 F2	51.3	47.46	F2	ug/Kg		92	70 - 130	31	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane	103		79 - 133
1,2-Dichloroethane-d4 (Surr)	102		71 - 155
Toluene-d8 (Surr)	99		80 - 120

# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-2

## GC/MS VOA

### Prep Batch: 8687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	5030C	
570-2262-3	B4-15	Total/NA	Solid	5030C	
570-2262-6	B4-30	Total/NA	Solid	5030C	
570-2262-8	B4-40	Total/NA	Solid	5030C	
570-2262-10	B4-50	Total/NA	Solid	5030C	
570-2262-15	B5-10	Total/NA	Solid	5030C	
570-2262-17	B5-20	Total/NA	Solid	5030C	
570-2262-19	B5-30	Total/NA	Solid	5030C	
570-2262-20	B5-40	Total/NA	Solid	5030C	
570-2262-22	B5-50	Total/NA	Solid	5030C	
570-2262-24	B5-60	Total/NA	Solid	5030C	
MB 570-8687/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-8687/2-A	Lab Control Sample	Total/NA	Solid	5030C	
570-2842-A-1-N MS	Matrix Spike	Total/NA	Solid	5030C	
570-2842-A-1-O MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

### Analysis Batch: 8688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-1	B4-5	Total/NA	Solid	8260B	8687
570-2262-3	B4-15	Total/NA	Solid	8260B	8687
570-2262-6	B4-30	Total/NA	Solid	8260B	8687
570-2262-8	B4-40	Total/NA	Solid	8260B	8687
570-2262-10	B4-50	Total/NA	Solid	8260B	8687
570-2262-15	B5-10	Total/NA	Solid	8260B	8687
570-2262-17	B5-20	Total/NA	Solid	8260B	8687
570-2262-19	B5-30	Total/NA	Solid	8260B	8687
570-2262-20	B5-40	Total/NA	Solid	8260B	8687
570-2262-22	B5-50	Total/NA	Solid	8260B	8687
570-2262-24	B5-60	Total/NA	Solid	8260B	8687
MB 570-8687/1-A	Method Blank	Total/NA	Solid	8260B	8687
LCS 570-8687/2-A	Lab Control Sample	Total/NA	Solid	8260B	8687
570-2842-A-1-N MS	Matrix Spike	Total/NA	Solid	8260B	8687
570-2842-A-1-O MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	8687

### Prep Batch: 8999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-5	B4-25	Total/NA	Solid	5030C	
MB 570-8999/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-8999/2-A	Lab Control Sample	Total/NA	Solid	5030C	
570-2442-A-1-G MS	Matrix Spike	Total/NA	Solid	5030C	
570-2442-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

### Analysis Batch: 9004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2262-5	B4-25	Total/NA	Solid	8260B	8999
MB 570-8999/1-A	Method Blank	Total/NA	Solid	8260B	8999
LCS 570-8999/2-A	Lab Control Sample	Total/NA	Solid	8260B	8999
570-2442-A-1-G MS	Matrix Spike	Total/NA	Solid	8260B	8999
570-2442-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	8999

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

## Client Sample ID: B4-5

Date Collected: 07/17/19 11:30

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-1

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			5.11 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 16:42	BE5H	ECL 2
Instrument ID: GCMSGGG										

## Client Sample ID: B4-15

Date Collected: 07/17/19 11:50

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-3

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			5.01 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 17:08	BE5H	ECL 2
Instrument ID: GCMSGGG										

## Client Sample ID: B4-25

Date Collected: 07/17/19 12:10

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-5

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			5.12 g	5 mL	8999	07/31/19 12:05	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	9004	07/31/19 15:44	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B4-30

Date Collected: 07/17/19 12:15

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-6

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			4.97 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 18:00	BE5H	ECL 2
Instrument ID: GCMSGGG										

## Client Sample ID: B4-40

Date Collected: 07/17/19 12:25

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-8

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			4.92 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 18:26	BE5H	ECL 2
Instrument ID: GCMSGGG										



# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

## Client Sample ID: B4-50

Date Collected: 07/17/19 12:45

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-10

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			5.05 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 18:52	BE5H	ECL 2
Instrument ID: GCMSGGG										

## Client Sample ID: B5-10

Date Collected: 07/18/19 08:10

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-15

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			4.92 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 19:19	BE5H	ECL 2
Instrument ID: GCMSGGG										

## Client Sample ID: B5-20

Date Collected: 07/18/19 08:20

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-17

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			5.02 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 19:45	BE5H	ECL 2
Instrument ID: GCMSGGG										

## Client Sample ID: B5-30

Date Collected: 07/18/19 08:30

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-19

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			5.04 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 20:12	BE5H	ECL 2
Instrument ID: GCMSGGG										

## Client Sample ID: B5-40

Date Collected: 07/18/19 08:50

Date Received: 07/18/19 13:30

## Lab Sample ID: 570-2262-20

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			4.96 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 20:38	BE5H	ECL 2
Instrument ID: GCMSGGG										

# Lab Chronicle

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

**Client Sample ID: B5-50**

**Date Collected: 07/18/19 09:10**

**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-22**

**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			5.05 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 21:04	BE5H	ECL 2
Instrument ID: GCMSGGG										

**Client Sample ID: B5-60**

**Date Collected: 07/18/19 09:20**

**Date Received: 07/18/19 13:30**

**Lab Sample ID: 570-2262-24**

**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			5.15 g	5 mL	8687	07/30/19 15:10	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8688	07/30/19 21:29	BE5H	ECL 2
Instrument ID: GCMSGGG										

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2262-2

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
5030C	Purge and Trap	SW846	ECL 2

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494



# Sample Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2262-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2262-1	B4-5	Solid	07/17/19 11:30	07/18/19 13:30	
570-2262-3	B4-15	Solid	07/17/19 11:50	07/18/19 13:30	
570-2262-5	B4-25	Solid	07/17/19 12:10	07/18/19 13:30	
570-2262-6	B4-30	Solid	07/17/19 12:15	07/18/19 13:30	
570-2262-8	B4-40	Solid	07/17/19 12:25	07/18/19 13:30	
570-2262-10	B4-50	Solid	07/17/19 12:45	07/18/19 13:30	
570-2262-15	B5-10	Solid	07/18/19 08:10	07/18/19 13:30	
570-2262-17	B5-20	Solid	07/18/19 08:20	07/18/19 13:30	
570-2262-19	B5-30	Solid	07/18/19 08:30	07/18/19 13:30	
570-2262-20	B5-40	Solid	07/18/19 08:50	07/18/19 13:30	
570-2262-22	B5-50	Solid	07/18/19 09:10	07/18/19 13:30	
570-2262-24	B5-60	Solid	07/18/19 09:20	07/18/19 13:30	

## Donald Burley

---

**From:** Megan Roughan <mroughan@citadelehs.com>  
**Sent:** Monday, July 29, 2019 5:41 PM  
**To:** Donald Burley; Mike Pendergrass  
**Subject:** RE: Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vincente Blvd Phase II

EXTERNAL EMAIL\*

Hi Don,

Thank you for the lab reports.

I would like to request the additional analysis be run:

VOCs by EPA Method 8260B for these samples from the following borings.

### Boring 1

- B1-5
- B1-15
- B1-25
- B1-35
- B1-45
- B1-55

### Boring 2

- B2-5
- B2-10
- B2-20
- B2-30
- B2-45
- B2-55

### Boring 3

- B3-10
- B3-20
- B3-30
- B3-40
- B3-50
- B3-60

### Boring 4

- B4-5
- B4-15
- B4-25
- B4-30
- B4-40
- B4-50

### Boring 5

- B5-10
- B5-20
- B5-30

- B5-40
- B5-50
- B5-60

Boring 6

- B6-5
- B6-15
- B6-25
- B6-35
- B6-40
- B6-50

These samples can be analyzed at standard turnaround time. Please let me know if there's any issue.

Thank you,  
Meg

**Megan Roughan**

Staff Engineer, Engineering and Environmental Sciences



Los Angeles – Corporate Office

1725 Victory Blvd. GSA Advantage

Glendale, CA 91201

O: 818.246.2707

[www.citadelehs.com](http://www.citadelehs.com)

Glendale | Costa Mesa | Valencia

**From:** Don Burley <[noreply@eurofinslimsservices.com](mailto:noreply@eurofinslimsservices.com)>

**Sent:** Monday, July 29, 2019 5:11 PM

**To:** Mike Pendergrass <[MPendergrass@citadelehs.com](mailto:MPendergrass@citadelehs.com)>; Megan Roughan <[mroughan@citadelehs.com](mailto:mroughan@citadelehs.com)>

**Subject:** Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vincente Blvd Phase II

Hello,

Attached please find the report and EDD files for job 570-2098-1; 333 S. San Vincente Blvd Phase II

Please feel free to contact me if you have any questions.

Thank you.

**Don Burley**

Project Manager

Eurofins Calscience LLC

Phone: 714-895-5494

E-mail: [donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

[www.EurofinsUS.com](http://www.EurofinsUS.com)





WO # / LAB USE ONLY

LABORATORY CLIENT: **Citadel EHS**  
ADDRESS: **1725 Victory Blvd**  
CITY: **Glendale** STATE: **CA** ZIP: **91201**  
TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**  
**1234-1003**  
P.O. NO.: **1234.1003**  
PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**  
SAMPLER(S): (PRINT)  
**Megan Roughan**

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain <input type="checkbox"/> EPA 8015M	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6								
		DATE	TIME																											
1	B4-5	7/17/19	1130	Soil	1	X						X										X							Do not hold	
2	B4-10		1140			X						X										X								
3	B4-15		1150			X						X										X								HOLD
4	B4-20		1200			X						X										X								
5	B4-25		1210			X						X										X								
6	B4-30		1215			X						X										X								
7	B4-35		1220			X						X										X								
8	B4-40		1225			X						X										X								
9	B4-45		1235			X						X										X								
10	B4-50		1245			X						X										X								

Relinquished by: (Signature) *M. Ryle*  
Relinquished by: (Signature) *Santos, Lester*  
Relinquished by: (Signature)

Received by: (Signature/Affiliation) *Santos, Lester*  
Received by: (Signature/Affiliation) *[Signature]*  
Received by: (Signature/Affiliation)

Date: 7/18/19 Time: 11:55  
Date: 07/18/19 Time: 13:30  
Date: Time:

5.7°C/5.9°C ; SSC



Calscience

CHAIN OF CUSTODY RECORD 2262

DATE: 7/18/2019  
PAGE: 2 OF 3

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WO # / LAB USE ONLY

LABORATORY CLIENT: **Citadel EHS**  
ADDRESS: **1725 Victory Blvd**  
CITY: **Glendale** STATE: **CA** ZIP: **91201**  
TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**  
**1234-1003**  
PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**  
P.O. NO.: **1234.1003**  
SAMPLER(S): (PRINT)  
**Megan Roughan**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

REQUESTED ANALYSES

SPECIAL INSTRUCTIONS:  
**Please hold all samples except for B4-5, B4-25, B5-15, and B5-55**

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<b>EPA Full Carbon Chain 8015M</b>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260) <input type="checkbox"/>	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
--	--	---	------------------------------------	--	--------------------------------------	-------------------	--	--------------	-------------------	-------------	--	---	---

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<b>EPA Full Carbon Chain 8015M</b>	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260) <input type="checkbox"/>	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6				
		DATE	TIME																							
11	B4-55	7/17/19	1250	Soil	1	X						X									X					
12	B4-60		1255			X						X									X					HOLD
13	B4-GW	7/17/19	1230	Water	3		X							X												
14	B5-5	7/18/19	0800	Soil	1	X						X									X					HOLD
15	B5-10		0810			X						X									X					HOLD
16	B5-15		0815			X						X									X					HOLD
17	B5-20		0820			X						X									X					HOLD
18	B5-25		0825			X						X									X					HOLD
19	B5-30		0830			X						X									X					HOLD
20	B5-40 MR		0850			X						X									X					HOLD

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: <b>7/18/19</b>	Time: <b>11:55</b>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: <b>07/18/19</b>	Time: <b>13:30</b>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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WO # / LAB USE ONLY

DATE: 7/18/2019  
PAGE: 3 OF 3

LABORATORY CLIENT: Citadel EHS  
ADDRESS: 1725 Victory Blvd  
CITY: Glendale STATE: CA ZIP: 91201  
TEL: 818-246-2707 E-MAIL: mpendergrass@citadelehs.com

CLIENT PROJECT NAME / NUMBER: 333 S. San Vicente Blvd Phase II  
P.O. NO.: 1234.1003  
PROJECT CONTACT: Mike Pendergrass  
mpendergrass@citadelehs.com  
SAMPLER(S): (PRINT) Megan Roughan

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD  
 COELT EDF GLOBAL ID: LOG CODE:

Please check box or fill in blank as needed.

<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	<input type="checkbox"/> TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input checked="" type="checkbox"/> TPH Full Carbon Chain EPA 801.5	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input checked="" type="checkbox"/> T22 Metals 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
--	--	--	---	--	--------------------------------------	--	---	---------------------------------------	--	--------------------------------------	---	---	--

SPECIAL INSTRUCTIONS:  
Please hold all samples except for B4-5, B4-25, B5-15, and B5-55

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	<input type="checkbox"/> TPH(g) <input type="checkbox"/> GRO	<input type="checkbox"/> TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	<input checked="" type="checkbox"/> TPH Full Carbon Chain EPA 801.5	<input type="checkbox"/> BTEX / MTBE <input type="checkbox"/> 8260	<input type="checkbox"/> VOCs (8260)	<input type="checkbox"/> Oxygenates (8260)	<input type="checkbox"/> Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	<input type="checkbox"/> SVOCs (8270)	<input type="checkbox"/> Pesticides (8081)	<input type="checkbox"/> PCBs (8082)	<input type="checkbox"/> PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	<input checked="" type="checkbox"/> T22 Metals 6010/747X <input type="checkbox"/> 6020/747X	<input type="checkbox"/> Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6			
		DATE	TIME																						
21	B5-45	7/18/19	0900	soil	1	X						X										X			[ HOLD
22	B5-50		0910			X						X										X			[ HOLD
23	B5-55		0915			X						X										X			[ HOLD
24	B5-60		0920			X						X										X			[ HOLD
25	B5-GW	7/18/19	0840	water	3		X							X											[ HOLD

Relinquished by: (Signature) <u>Megan Roughan</u>	Received by: (Signature/Affiliation) <u>Sandy [unclear]</u>	Date: <u>7/18/19</u>	Time: <u>11:55</u>
Relinquished by: (Signature) <u>Sandy [unclear]</u>	Received by: (Signature/Affiliation) <u>[unclear]</u>	Date: <u>07/10/19</u>	Time: <u>13:30</u>
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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8/2/2019



## Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2262-2

**Login Number: 2262**

**List Number: 1**

**Creator: Castro, Joy**

**List Source: Eurofins Calscience**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

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

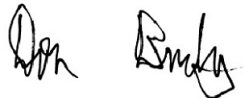
Laboratory Job ID: 570-2384-1

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



---

Authorized for release by:  
8/5/2019 4:30:47 PM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)



# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

**Job ID: 570-2384-1**

**Laboratory: Eurofins Calscience LLC**

## Narrative

### Job Narrative 570-2384-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/19/2019 5:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

#### Receipt Exceptions

The following volatile sample was received with significant headspace in the sample container(s): B6-GW (570-2384-13). Significant headspace is defined as a bubble greater than 6 mm in diameter. 1 of 3 vials received with headspace.

#### GC Semi VOA

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

#### Metals

Method(s) 6010B: The absolute response for Antimony, Molybdenum, Thallium and Zinc were greater than the method reporting limit (RL). The instrument raw data has been manually reviewed and the result can be reported as ND.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-8234 and analytical batch 570-8917 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.

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.

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

## Client Sample ID: B6-10

## Lab Sample ID: 570-2384-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.89		0.777	mg/Kg	1		6010B	Total/NA
Barium	70.6		0.518	mg/Kg	1		6010B	Total/NA
Beryllium	0.578		0.259	mg/Kg	1		6010B	Total/NA
Cadmium	1.59		0.518	mg/Kg	1		6010B	Total/NA
Chromium	24.9		0.259	mg/Kg	1		6010B	Total/NA
Cobalt	7.70		0.259	mg/Kg	1		6010B	Total/NA
Copper	10.1		0.518	mg/Kg	1		6010B	Total/NA
Nickel	12.5		0.259	mg/Kg	1		6010B	Total/NA
Selenium	1.16		0.777	mg/Kg	1		6010B	Total/NA
Vanadium	40.4		0.259	mg/Kg	1		6010B	Total/NA
Zinc	31.1		1.04	mg/Kg	1		6010B	Total/NA

## Client Sample ID: B6-50

## Lab Sample ID: 570-2384-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10.5		0.718	mg/Kg	1		6010B	Total/NA
Barium	125		0.478	mg/Kg	1		6010B	Total/NA
Beryllium	0.987		0.239	mg/Kg	1		6010B	Total/NA
Cadmium	3.13		0.478	mg/Kg	1		6010B	Total/NA
Chromium	36.1		0.239	mg/Kg	1		6010B	Total/NA
Cobalt	8.88		0.239	mg/Kg	1		6010B	Total/NA
Copper	19.7		0.478	mg/Kg	1		6010B	Total/NA
Lead	2.15		0.478	mg/Kg	1		6010B	Total/NA
Nickel	16.9		0.239	mg/Kg	1		6010B	Total/NA
Vanadium	55.0		0.239	mg/Kg	1		6010B	Total/NA
Zinc	39.3		0.957	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

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

**Client Sample ID: B6-10**  
**Date Collected: 07/18/19 11:50**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C7 as C7	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C8 as C8	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C9-C10	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C11-C12	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C13-C14	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C15-C16	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C17-C18	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C19-C20	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C21-C22	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C23-C24	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C25-C28	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C29-C32	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C33-C36	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C37-C40	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C41-C44	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1
C6-C44	ND		4.9	mg/Kg		07/23/19 21:38	07/25/19 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	81		61 - 145	07/23/19 21:38	07/25/19 00:42	1

**Client Sample ID: B6-50**  
**Date Collected: 07/18/19 12:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C7 as C7	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C8 as C8	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C9-C10	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C11-C12	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C13-C14	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C15-C16	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C17-C18	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C19-C20	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C21-C22	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C23-C24	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C25-C28	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C29-C32	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C33-C36	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C37-C40	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C41-C44	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1
C6-C44	ND		5.0	mg/Kg		07/23/19 21:38	07/25/19 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	79		61 - 145	07/23/19 21:38	07/25/19 01:02	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2384-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: B6-10**  
**Date Collected: 07/18/19 11:50**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.777	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Arsenic</b>	<b>3.89</b>		0.777	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Barium</b>	<b>70.6</b>		0.518	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Beryllium</b>	<b>0.578</b>		0.259	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Cadmium</b>	<b>1.59</b>		0.518	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Chromium</b>	<b>24.9</b>		0.259	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Cobalt</b>	<b>7.70</b>		0.259	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Copper</b>	<b>10.1</b>		0.518	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
Lead	ND		0.518	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
Molybdenum	ND	L	0.259	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Nickel</b>	<b>12.5</b>		0.259	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Selenium</b>	<b>1.16</b>		0.777	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
Silver	ND		0.259	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
Thallium	ND		0.777	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Vanadium</b>	<b>40.4</b>		0.259	mg/Kg		07/27/19 08:00	07/30/19 12:40	1
<b>Zinc</b>	<b>31.1</b>		1.04	mg/Kg		07/27/19 08:00	07/30/19 12:40	1

**Client Sample ID: B6-50**  
**Date Collected: 07/18/19 12:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	L	0.718	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Arsenic</b>	<b>10.5</b>		0.718	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Barium</b>	<b>125</b>		0.478	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Beryllium</b>	<b>0.987</b>		0.239	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Cadmium</b>	<b>3.13</b>		0.478	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Chromium</b>	<b>36.1</b>		0.239	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Cobalt</b>	<b>8.88</b>		0.239	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Copper</b>	<b>19.7</b>		0.478	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Lead</b>	<b>2.15</b>		0.478	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
Molybdenum	ND	L	0.239	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Nickel</b>	<b>16.9</b>		0.239	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
Selenium	ND		0.718	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
Silver	ND		0.239	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
Thallium	ND	L	0.718	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Vanadium</b>	<b>55.0</b>		0.239	mg/Kg		07/27/19 08:00	07/30/19 12:42	1
<b>Zinc</b>	<b>39.3</b>		0.957	mg/Kg		07/27/19 08:00	07/30/19 12:42	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2384-1

## Method: 7471A - Mercury (CVAA)

**Client Sample ID: B6-10**  
**Date Collected: 07/18/19 11:50**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-2**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0847	mg/Kg		07/26/19 17:00	07/28/19 11:19	1

**Client Sample ID: B6-50**  
**Date Collected: 07/18/19 12:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0794	mg/Kg		07/26/19 17:00	07/28/19 11:21	1

# Surrogate Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

**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)
570-2355-A-1-H MS	Matrix Spike	87
570-2355-A-1-I MSD	Matrix Spike Duplicate	86
570-2384-2	B6-10	81
570-2384-10	B6-50	79
LCS 570-7282/2-A	Lab Control Sample	84
MB 570-7282/1-A	Method Blank	87

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2384-1

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

**Lab Sample ID: MB 570-7282/1-A**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 7282**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 as C6	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C7 as C7	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C8 as C8	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C9-C10	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C11-C12	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C13-C14	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C15-C16	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C17-C18	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C19-C20	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C21-C22	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C23-C24	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C25-C28	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C29-C32	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C33-C36	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C37-C40	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C41-C44	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1
C6-C44	ND		5.0	mg/Kg		07/23/19 21:38	07/24/19 20:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	87		61 - 145	07/23/19 21:38	07/24/19 20:18	1

**Lab Sample ID: LCS 570-7282/2-A**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 7282**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	400	345.7		mg/Kg		86	67 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	84		61 - 145

**Lab Sample ID: 570-2355-A-1-H MS**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 7282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	ND		383	348.7		mg/Kg		91	33 - 153

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>n</i> -Octacosane (Surr)	87		61 - 145



# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

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

**Lab Sample ID: 570-2355-A-1-I MSD**  
**Matrix: Solid**  
**Analysis Batch: 7484**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 7282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	ND		396	384.6		mg/Kg		97	33 - 153	10	32
<b>Surrogate</b>		<b>MSD %Recovery</b>	<b>MSD Qualifier</b>								<b>Limits</b>
<i>n-Octacosane (Surr)</i>		86									61 - 145

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 570-8234/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8917**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8234**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.750	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Arsenic	ND		0.750	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Barium	ND		0.500	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Beryllium	ND		0.250	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Cadmium	ND		0.500	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Chromium	ND		0.250	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Cobalt	ND		0.250	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Copper	ND		0.500	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Lead	ND		0.500	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Molybdenum	ND		0.250	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Nickel	ND		0.250	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Selenium	ND		0.750	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Silver	ND		0.250	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Thallium	ND		0.750	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Vanadium	ND		0.250	mg/Kg		07/27/19 08:00	07/30/19 12:03	1
Zinc	ND	L	1.00	mg/Kg		07/27/19 08:00	07/30/19 12:03	1

**Lab Sample ID: LCS 570-8234/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8917**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8234**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	24.0	21.80		mg/Kg		91	80 - 120
Arsenic	24.0	22.80		mg/Kg		95	80 - 120
Barium	24.0	25.48		mg/Kg		106	80 - 120
Beryllium	24.0	22.69		mg/Kg		94	80 - 120
Cadmium	24.0	24.53		mg/Kg		102	80 - 120
Chromium	24.0	23.85		mg/Kg		99	80 - 120
Cobalt	24.0	25.41		mg/Kg		106	80 - 120
Copper	24.0	23.67		mg/Kg		98	80 - 120
Lead	24.0	24.46		mg/Kg		102	80 - 120
Molybdenum	24.0	23.29		mg/Kg		97	80 - 120
Nickel	24.0	25.12		mg/Kg		105	80 - 120
Selenium	24.0	21.38		mg/Kg		89	80 - 120
Silver	12.0	10.83		mg/Kg		90	80 - 120
Thallium	24.0	23.46		mg/Kg		98	80 - 120

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

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

**Lab Sample ID: LCS 570-8234/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8917**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8234**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	24.0	23.67		mg/Kg		98	80 - 120
Zinc	24.0	22.28		mg/Kg		93	80 - 120

**Lab Sample ID: LCSD 570-8234/3-A**  
**Matrix: Solid**  
**Analysis Batch: 8917**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 8234**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	24.8	23.04		mg/Kg		93	80 - 120	6	20
Arsenic	24.8	23.84		mg/Kg		96	80 - 120	4	20
Barium	24.8	26.41		mg/Kg		107	80 - 120	4	20
Beryllium	24.8	23.48		mg/Kg		95	80 - 120	3	20
Cadmium	24.8	25.56		mg/Kg		103	80 - 120	4	20
Chromium	24.8	24.72		mg/Kg		100	80 - 120	4	20
Cobalt	24.8	26.49		mg/Kg		107	80 - 120	4	20
Copper	24.8	24.60		mg/Kg		99	80 - 120	4	20
Lead	24.8	25.43		mg/Kg		103	80 - 120	4	20
Molybdenum	24.8	24.49		mg/Kg		99	80 - 120	5	20
Nickel	24.8	26.20		mg/Kg		106	80 - 120	4	20
Selenium	24.8	23.22		mg/Kg		94	80 - 120	8	20
Silver	12.4	11.22		mg/Kg		91	80 - 120	4	20
Thallium	24.8	24.29		mg/Kg		98	80 - 120	3	20
Vanadium	24.8	24.46		mg/Kg		99	80 - 120	3	20
Zinc	24.8	23.12		mg/Kg		93	80 - 120	4	20

**Lab Sample ID: 570-2434-A-2-C MS**  
**Matrix: Solid**  
**Analysis Batch: 8917**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 8234**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1 L	25.8	7.850	F1	mg/Kg		30	50 - 115
Arsenic	4.07		25.8	30.42		mg/Kg		102	75 - 125
Barium	47.8	F1	25.8	82.81	F1	mg/Kg		136	75 - 125
Beryllium	0.593		25.8	25.71		mg/Kg		97	75 - 125
Cadmium	1.60		25.8	27.30		mg/Kg		100	75 - 125
Chromium	19.9		25.8	47.22		mg/Kg		106	75 - 125
Cobalt	7.13		25.8	33.13		mg/Kg		101	75 - 125
Copper	15.7		25.8	44.94		mg/Kg		114	75 - 125
Lead	4.36		25.8	28.41		mg/Kg		93	75 - 125
Molybdenum	ND		25.8	24.37		mg/Kg		95	75 - 125
Nickel	12.1		25.8	39.42		mg/Kg		106	75 - 125
Selenium	ND		25.8	25.59		mg/Kg		99	75 - 125
Silver	ND		12.9	12.90		mg/Kg		100	75 - 125
Thallium	ND		25.8	22.06		mg/Kg		83	75 - 125
Vanadium	27.2		25.8	55.39		mg/Kg		109	75 - 125
Zinc	36.0		25.8	60.43		mg/Kg		95	75 - 125

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

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

**Lab Sample ID: 570-2434-A-2-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 8917**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 8234**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Antimony	ND	F1 L	24.4	6.833	F1	mg/Kg		28	50 - 115	14	20
Arsenic	4.07		24.4	27.53		mg/Kg		96	75 - 125	10	20
Barium	47.8	F1	24.4	78.39	F1	mg/Kg		126	75 - 125	5	20
Beryllium	0.593		24.4	24.63		mg/Kg		99	75 - 125	4	20
Cadmium	1.60		24.4	26.29		mg/Kg		101	75 - 125	4	20
Chromium	19.9		24.4	44.64		mg/Kg		101	75 - 125	6	20
Cobalt	7.13		24.4	31.81		mg/Kg		101	75 - 125	4	20
Copper	15.7		24.4	42.64		mg/Kg		111	75 - 125	5	20
Lead	4.36		24.4	27.51		mg/Kg		95	75 - 125	3	20
Molybdenum	ND		24.4	23.38		mg/Kg		96	75 - 125	4	20
Nickel	12.1		24.4	38.07		mg/Kg		106	75 - 125	3	20
Selenium	ND		24.4	24.32		mg/Kg		100	75 - 125	5	20
Silver	ND		12.2	12.18		mg/Kg		100	75 - 125	6	20
Thallium	ND		24.4	23.30		mg/Kg		93	75 - 125	5	20
Vanadium	27.2		24.4	52.57		mg/Kg		104	75 - 125	5	20
Zinc	36.0		24.4	58.60		mg/Kg		93	75 - 125	3	20

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 570-8080/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Mercury	ND		0.0833	mg/Kg		07/26/19 17:00	07/28/19 10:14	1

**Lab Sample ID: LCS 570-8080/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	0.833	0.7803		mg/Kg		94	85 - 121

**Lab Sample ID: LCSD 570-8080/3-A**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
		Result	Qualifier				Limits		
Mercury	0.833	0.7799		mg/Kg		94	85 - 121	0	10

**Lab Sample ID: 570-2262-A-1-E MS**  
**Matrix: Solid**  
**Analysis Batch: 8442**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 8080**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
Mercury	ND	F2	0.820	0.7763		mg/Kg		95	71 - 137

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2384-1

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: 570-2262-A-1-F MSD**

**Matrix: Solid**

**Analysis Batch: 8442**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 8080**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND	F2	0.820	0.6188	F2	mg/Kg		75	71 - 137	23	14

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

# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

## GC Semi VOA

### Prep Batch: 7282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-2	B6-10	Total/NA	Solid	3550C	
570-2384-10	B6-50	Total/NA	Solid	3550C	
MB 570-7282/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-7282/2-A	Lab Control Sample	Total/NA	Solid	3550C	
570-2355-A-1-H MS	Matrix Spike	Total/NA	Solid	3550C	
570-2355-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

### Analysis Batch: 7484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-2	B6-10	Total/NA	Solid	8015B	7282
570-2384-10	B6-50	Total/NA	Solid	8015B	7282
MB 570-7282/1-A	Method Blank	Total/NA	Solid	8015B	7282
LCS 570-7282/2-A	Lab Control Sample	Total/NA	Solid	8015B	7282
570-2355-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B	7282
570-2355-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	7282

## Metals

### Prep Batch: 8080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-2	B6-10	Total/NA	Solid	7471A	
570-2384-10	B6-50	Total/NA	Solid	7471A	
MB 570-8080/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-8080/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-8080/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-2262-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	
570-2262-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

### Prep Batch: 8234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-2	B6-10	Total/NA	Solid	3050B	
570-2384-10	B6-50	Total/NA	Solid	3050B	
MB 570-8234/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-8234/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-8234/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-2434-A-2-C MS	Matrix Spike	Total/NA	Solid	3050B	
570-2434-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

### Analysis Batch: 8442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-2	B6-10	Total/NA	Solid	7471A	8080
570-2384-10	B6-50	Total/NA	Solid	7471A	8080
MB 570-8080/1-A	Method Blank	Total/NA	Solid	7471A	8080
LCS 570-8080/2-A	Lab Control Sample	Total/NA	Solid	7471A	8080
LCSD 570-8080/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	8080
570-2262-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	8080
570-2262-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	8080

### Analysis Batch: 8917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-2	B6-10	Total/NA	Solid	6010B	8234

Eurofins Calscience LLC

# QC Association Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2384-1

## Metals (Continued)

### Analysis Batch: 8917 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-10	B6-50	Total/NA	Solid	6010B	8234
MB 570-8234/1-A	Method Blank	Total/NA	Solid	6010B	8234
LCS 570-8234/2-A	Lab Control Sample	Total/NA	Solid	6010B	8234
LCSD 570-8234/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	8234
570-2434-A-2-C MS	Matrix Spike	Total/NA	Solid	6010B	8234
570-2434-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	8234

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# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

## Client Sample ID: B6-10

Date Collected: 07/18/19 11:50

Date Received: 07/19/19 17:45

## Lab Sample ID: 570-2384-2

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	3550C			10.25 g	10 mL	7282	07/23/19 21:38	CL	ECL 1
Total/NA	Analysis	8015B		1			7484	07/25/19 00:42	I9H5	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3050B			1.93 g	100 mL	8234	07/27/19 08:00	JG	ECL 1
Total/NA	Analysis	6010B		1			8917	07/30/19 12:40	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.59 g	100 mL	8080	07/26/19 17:00	TA	ECL 1
Total/NA	Analysis	7471A		1			8442	07/28/19 11:19	I3IN	ECL 1
Instrument ID: HG8										

## Client Sample ID: B6-50

Date Collected: 07/18/19 12:55

Date Received: 07/19/19 17:45

## Lab Sample ID: 570-2384-10

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	3550C			10.09 g	10 mL	7282	07/23/19 21:38	CL	ECL 1
Total/NA	Analysis	8015B		1			7484	07/25/19 01:02	I9H5	ECL 1
Instrument ID: GC50										
Total/NA	Prep	3050B			2.09 g	100 mL	8234	07/27/19 08:00	JG	ECL 1
Total/NA	Analysis	6010B		1			8917	07/30/19 12:42	ULPF	ECL 1
Instrument ID: ICP8										
Total/NA	Prep	7471A			0.63 g	100 mL	8080	07/26/19 17:00	TA	ECL 1
Total/NA	Analysis	7471A		1			8442	07/28/19 11:21	I3IN	ECL 1
Instrument ID: HG8										

**Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494



# Accreditation/Certification Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2384-1

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

Method	Method Description	Protocol	Laboratory
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
7471A	Mercury (CVAA)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3550C	Ultrasonic Extraction	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



# Sample Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2384-2	B6-10	Solid	07/18/19 11:50	07/19/19 17:45	
570-2384-10	B6-50	Solid	07/18/19 12:55	07/19/19 17:45	

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Calscien



570-2384 Chain of Custody

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 8...  
For courier service / sample drop off information, contact us 26\_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY

Loc: 570  
2384

DATE: 7/19/2019  
PAGE: 1 OF 2

WO # / LAB USE ONLY

LABORATORY CLIENT: Citadel EHS		CLIENT PROJECT NAME / NUMBER: 333 S. San Vicente Blvd Phase II		P.O. NO.: 1234.1003	
ADDRESS: 1725 Victory Blvd		PROJECT CONTACT: Mike Pendergrass mpendergrass@citadelehs.com		SAMPLER(S): (PRINT) Megan Roughan	
CITY: Glendale STATE: CA ZIP: 91201					
TEL: 818-246-2707		E-MAIL: mpendergrass@citadelehs.com			

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:  
Please hold all samples except for BG-10 and BG-50

Please check box or fill in blank as needed.																
Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain <input type="checkbox"/> EPA <input type="checkbox"/> DOTSM	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
x						x								x		HOLD
x						x								x		
x						x								x		
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x						x								x		
x						x								x		HOLD
x						x								x		
x						x								x		
x						x								x		

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
1	BG-5	7/18/19	1145	Soil	1
2	BG-10		1150		
3	BG-15		1155		
4	BG-20		1200		
5	BG-25		1205		
6	BG-30		1210		
7	BG-35		1230		
8	BG-40		1235		
9	BG-45		1245		
10	BG-50		1255		

Relinquished by: (Signature) <i>Megan Roughan</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/19/19	Time: 13:20
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/19/19	Time: 1745
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

Page 21 of 23

8/5/2019



Calscience

CHAIN OF CUSTODY

Loc: 570  
2384

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WO # / LAB USE ONLY

DATE: 7/19/2019  
PAGE: 2 OF 2

LABORATORY CLIENT: **Citadel EHS**

ADDRESS: **1725 Victory Blvd**

CITY: **Glendale** STATE: **CA** ZIP: **91201**

TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**

P.O. NO.: **1234.1003**

PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**

SAMPLER(S): (PRINT)  
**Megan Roughan**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:  
**Please hold all samples except for BG-10 and BG-50**

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Char <input type="checkbox"/> 8015M	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
	11	7/18/19	1306	Soil	1	x						x									x	
	12		1305		1	x						x									x	
	13	7/18/19	1320	Water	3		x							x								

HOLD

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 7/19/19	Time: 13:20
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date: 7/19/19	Time: 1745
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

217-2.9-SC6



# Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2384-1

**Login Number: 2384**

**List Number: 1**

**Creator: Castro, Joy**

**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.	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	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with acppt. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

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

Laboratory Job ID: 570-2384-2

Client Project/Site: 333 S. San Vicente Blvd Phase II

For:

Citadel Environmental Services Inc  
1725 Victory Blvd  
Glendale, California 91201

Attn: Michael Pendergrass



---

Authorized for release by:  
8/5/2019 4:33:28 PM

Don Burley, Project Manager I  
(714)895-5494  
[donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

*The test results in this report meet all 2003 NELAC and 2009 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: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

## 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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

# Case Narrative

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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**Job ID: 570-2384-2**

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**Laboratory: Eurofins Calscience LLC**

## Narrative

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### Job Narrative 570-2384-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/19/2019 5:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

#### Receipt Exceptions

The following volatile sample was received with significant headspace in the sample container(s): B6-GW (570-2384-13). Significant headspace is defined as a bubble greater than 6 mm in diameter. 1 of 3 vials received with headspace.

#### GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-8878 and analytical batch 570-8891 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

#### VOA Prep

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

# Detection Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

**Client Sample ID: B6-5**

**Lab Sample ID: 570-2384-1**

No Detections.

**Client Sample ID: B6-15**

**Lab Sample ID: 570-2384-3**

No Detections.

**Client Sample ID: B6-25**

**Lab Sample ID: 570-2384-5**

No Detections.

**Client Sample ID: B6-35**

**Lab Sample ID: 570-2384-7**

No Detections.

**Client Sample ID: B6-40**

**Lab Sample ID: 570-2384-8**

No Detections.

**Client Sample ID: B6-50**

**Lab Sample ID: 570-2384-10**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-5**  
**Date Collected: 07/18/19 11:45**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Benzene	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Bromobenzene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Bromochloromethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Bromodichloromethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Bromoform	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Bromomethane	ND	F1	25	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
2-Butanone	ND		49	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Carbon disulfide	ND	F1	49	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Carbon tetrachloride	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Chlorobenzene	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Chloroethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Chloroform	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Chloromethane	ND		25	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
2-Chlorotoluene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
4-Chlorotoluene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
cis-1,2-Dichloroethene	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
cis-1,3-Dichloropropene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Dibromochloromethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,2-Dibromo-3-Chloropropane	ND		9.8	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,2-Dibromoethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Dibromomethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,2-Dichlorobenzene	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,3-Dichlorobenzene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,4-Dichlorobenzene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Dichlorodifluoromethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,1-Dichloroethane	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,2-Dichloroethane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,1-Dichloroethene	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,2-Dichloropropane	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,3-Dichloropropane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
2,2-Dichloropropane	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
1,1-Dichloropropene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Di-isopropyl ether (DIPE)	ND		9.8	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Ethanol	ND		250	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Ethylbenzene	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Ethyl-t-butyl ether (ETBE)	ND		9.8	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
2-Hexanone	ND		49	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Isopropylbenzene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Methylene Chloride	ND		49	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
4-Methyl-2-pentanone	ND		49	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
m,p-Xylene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
Naphthalene	ND		49	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
n-Butylbenzene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
N-Propylbenzene	ND		4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
o-Xylene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
p-Isopropyltoluene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1
sec-Butylbenzene	ND	F1	4.9	ug/Kg		07/30/19 16:32	07/31/19 01:00	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-5**  
**Date Collected: 07/18/19 11:45**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-1**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	F1	4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
Tert-amyl-methyl ether (TAME)	ND		9.8	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
tert-Butyl alcohol (TBA)	ND		49	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
tert-Butylbenzene	ND	F1	4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,1,1,2-Tetrachloroethane	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,1,1,2,2-Tetrachloroethane	ND	F1	4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
Tetrachloroethene	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
Toluene	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
trans-1,2-Dichloroethene	ND	F1	4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
trans-1,3-Dichloropropene	ND	F1	4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,2,3-Trichlorobenzene	ND	F1	9.8	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,2,4-Trichlorobenzene	ND	F1	4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,1,1-Trichloroethane	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,1,2-Trichloroethane	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
Trichloroethene	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
Trichlorofluoromethane	ND		49	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,2,3-Trichloropropane	ND	F1	4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	49	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,2,4-Trimethylbenzene	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
1,3,5-Trimethylbenzene	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
Vinyl acetate	ND	F1	49	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1
Vinyl chloride	ND		4.9	ug/Kg	-	07/30/19 16:32	07/31/19 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120	07/30/19 16:32	07/31/19 01:00	1
Dibromofluoromethane	104		79 - 133	07/30/19 16:32	07/31/19 01:00	1
1,2-Dichloroethane-d4 (Surr)	105		71 - 155	07/30/19 16:32	07/31/19 01:00	1
Toluene-d8 (Surr)	102		80 - 120	07/30/19 16:32	07/31/19 01:00	1

**Client Sample ID: B6-15**  
**Date Collected: 07/18/19 11:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Benzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Bromobenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Bromochloromethane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Bromodichloromethane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Bromoform	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Bromomethane	ND		25	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
2-Butanone	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Carbon disulfide	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Carbon tetrachloride	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Chlorobenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Chloroethane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Chloroform	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
Chloromethane	ND		25	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
2-Chlorotoluene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
4-Chlorotoluene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 02:43	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-15**  
**Date Collected: 07/18/19 11:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Ethanol	ND		250	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
2-Hexanone	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Naphthalene	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Styrene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Toluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-15**  
**Date Collected: 07/18/19 11:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-3**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 02:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120			07/30/19 16:32	07/31/19 02:43	1
Dibromofluoromethane	107		79 - 133			07/30/19 16:32	07/31/19 02:43	1
1,2-Dichloroethane-d4 (Surr)	118		71 - 155			07/30/19 16:32	07/31/19 02:43	1
Toluene-d8 (Surr)	100		80 - 120			07/30/19 16:32	07/31/19 02:43	1

**Client Sample ID: B6-25**  
**Date Collected: 07/18/19 12:05**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Benzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Bromoform	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Bromomethane	ND		25	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
2-Butanone	ND		50	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Chloroform	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Chloromethane	ND		25	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 03:09	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 03:09	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-25**  
**Date Collected: 07/18/19 12:05**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-5**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethanol	ND		250	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Ethylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
2-Hexanone	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Isopropylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Methylene Chloride	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
4-Methyl-2-pentanone	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
m,p-Xylene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Naphthalene	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
n-Butylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
N-Propylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
o-Xylene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
p-Isopropyltoluene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
sec-Butylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Styrene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
tert-Butylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Tetrachloroethene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Toluene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Trichloroethene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Trichlorofluoromethane	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Vinyl acetate	ND		50	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1
Vinyl chloride	ND		5.0	ug/Kg	-	07/30/19 16:32	07/31/19 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120	07/30/19 16:32	07/31/19 03:09	1
Dibromofluoromethane	103		79 - 133	07/30/19 16:32	07/31/19 03:09	1
1,2-Dichloroethane-d4 (Surr)	107		71 - 155	07/30/19 16:32	07/31/19 03:09	1
Toluene-d8 (Surr)	102		80 - 120	07/30/19 16:32	07/31/19 03:09	1

**Client Sample ID: B6-35**  
**Date Collected: 07/18/19 12:30**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg	-	07/30/19 16:32	07/31/19 03:34	1
Benzene	ND		5.2	ug/Kg	-	07/30/19 16:32	07/31/19 03:34	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-35**  
**Date Collected: 07/18/19 12:30**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Bromochloromethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Bromodichloromethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Bromoform	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Bromomethane	ND		26	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
2-Butanone	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Carbon disulfide	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Carbon tetrachloride	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Chlorobenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Chloroethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Chloroform	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Chloromethane	ND		26	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
2-Chlorotoluene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
4-Chlorotoluene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
cis-1,2-Dichloroethene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
cis-1,3-Dichloropropene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Dibromochloromethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2-Dibromoethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Dibromomethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2-Dichlorobenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,3-Dichlorobenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,4-Dichlorobenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Dichlorodifluoromethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1-Dichloroethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2-Dichloroethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1-Dichloroethene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2-Dichloropropane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,3-Dichloropropane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
2,2-Dichloropropane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1-Dichloropropene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Ethanol	ND		260	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Ethylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
2-Hexanone	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Isopropylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Methylene Chloride	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
4-Methyl-2-pentanone	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Methyl-t-Butyl Ether (MTBE)	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
m,p-Xylene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Naphthalene	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
n-Butylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
N-Propylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
o-Xylene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
p-Isopropyltoluene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
sec-Butylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Styrene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 03:34	1

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-35**  
**Date Collected: 07/18/19 12:30**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-7**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
tert-Butylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1,1,2-Tetrachloroethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1,2,2-Tetrachloroethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Tetrachloroethene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Toluene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
trans-1,2-Dichloroethene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
trans-1,3-Dichloropropene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2,4-Trichlorobenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1,1-Trichloroethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1,2-Trichloroethane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Trichloroethene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Trichlorofluoromethane	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2,3-Trichloropropane	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,2,4-Trimethylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
1,3,5-Trimethylbenzene	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Vinyl acetate	ND		52	ug/Kg		07/30/19 16:32	07/31/19 03:34	1
Vinyl chloride	ND		5.2	ug/Kg		07/30/19 16:32	07/31/19 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120	07/30/19 16:32	07/31/19 03:34	1
Dibromofluoromethane	102		79 - 133	07/30/19 16:32	07/31/19 03:34	1
1,2-Dichloroethane-d4 (Surr)	100		71 - 155	07/30/19 16:32	07/31/19 03:34	1
Toluene-d8 (Surr)	101		80 - 120	07/30/19 16:32	07/31/19 03:34	1

**Client Sample ID: B6-40**  
**Date Collected: 07/18/19 12:35**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Benzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Bromoform	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Bromomethane	ND		25	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
2-Butanone	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Chloroform	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Chloromethane	ND		25	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1

Eurofins Calscience LLC

# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-40**  
**Date Collected: 07/18/19 12:35**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Di-isopropyl ether (DIPE)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Ethanol	ND		250	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Ethyl-t-butyl ether (ETBE)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
2-Hexanone	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Naphthalene	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Styrene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Tert-amyl-methyl ether (TAME)	ND		10	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Toluene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2,3-Trichlorobenzene	ND		10	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1



# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-40**  
**Date Collected: 07/18/19 12:35**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-8**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 16:32	07/31/19 04:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>4-Bromofluorobenzene (Surr)</i>	98		80 - 120			07/30/19 16:32	07/31/19 04:00	1
<i>Dibromofluoromethane</i>	102		79 - 133			07/30/19 16:32	07/31/19 04:00	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		71 - 155			07/30/19 16:32	07/31/19 04:00	1
<i>Toluene-d8 (Surr)</i>	100		80 - 120			07/30/19 16:32	07/31/19 04:00	1

**Client Sample ID: B6-50**  
**Date Collected: 07/18/19 12:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Benzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Bromobenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Bromochloromethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Bromodichloromethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Bromoform	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Bromomethane	ND		24	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
2-Butanone	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Carbon disulfide	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Carbon tetrachloride	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Chlorobenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Chloroethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Chloroform	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Chloromethane	ND		24	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
2-Chlorotoluene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
4-Chlorotoluene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
cis-1,2-Dichloroethene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
cis-1,3-Dichloropropene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Dibromochloromethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2-Dibromo-3-Chloropropane	ND		9.7	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2-Dibromoethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Dibromomethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2-Dichlorobenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,3-Dichlorobenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,4-Dichlorobenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Dichlorodifluoromethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1-Dichloroethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2-Dichloroethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1-Dichloroethene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2-Dichloropropane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,3-Dichloropropane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
2,2-Dichloropropane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1-Dichloropropene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Di-isopropyl ether (DIPE)	ND		9.7	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Ethanol	ND		240	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Ethylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1

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# Client Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Client Sample ID: B6-50**  
**Date Collected: 07/18/19 12:55**  
**Date Received: 07/19/19 17:45**

**Lab Sample ID: 570-2384-10**  
**Matrix: Solid**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		9.7	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
2-Hexanone	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Isopropylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Methylene Chloride	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
4-Methyl-2-pentanone	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Methyl-t-Butyl Ether (MTBE)	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
m,p-Xylene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Naphthalene	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
n-Butylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
N-Propylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
o-Xylene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
p-Isopropyltoluene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
sec-Butylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Styrene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Tert-amyl-methyl ether (TAME)	ND		9.7	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
tert-Butyl alcohol (TBA)	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
tert-Butylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1,1,2-Tetrachloroethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1,2,2-Tetrachloroethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Tetrachloroethene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Toluene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
trans-1,2-Dichloroethene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
trans-1,3-Dichloropropene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2,3-Trichlorobenzene	ND		9.7	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2,4-Trichlorobenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1,1-Trichloroethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1,2-Trichloroethane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Trichloroethene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Trichlorofluoromethane	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2,3-Trichloropropane	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,2,4-Trimethylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
1,3,5-Trimethylbenzene	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Vinyl acetate	ND		48	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Vinyl chloride	ND		4.8	ug/Kg		07/30/19 16:32	07/31/19 04:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120			07/30/19 16:32	07/31/19 04:26	1
Dibromofluoromethane	104		79 - 133			07/30/19 16:32	07/31/19 04:26	1
1,2-Dichloroethane-d4 (Surr)	104		71 - 155			07/30/19 16:32	07/31/19 04:26	1
Toluene-d8 (Surr)	100		80 - 120			07/30/19 16:32	07/31/19 04:26	1



# Surrogate Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Matrix: Solid**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	DCA	TOL
		(80-120)	(79-133)	(71-155)	(80-120)
570-2384-1	B6-5	96	104	105	102
570-2384-1 MS	B6-5	103	105	108	99
570-2384-1 MSD	B6-5	101	105	108	100
570-2384-3	B6-15	99	107	118	100
570-2384-5	B6-25	95	103	107	102
570-2384-7	B6-35	97	102	100	101
570-2384-8	B6-40	98	102	105	100
570-2384-10	B6-50	98	104	104	100
LCS 570-8878/2-A	Lab Control Sample	100	102	104	102
MB 570-8878/1-A	Method Blank	98	101	103	102

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Lab Sample ID: MB 570-8878/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8891**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8878**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		120	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Benzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Bromobenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Bromochloromethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Bromodichloromethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Bromoform	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Bromomethane	ND		25	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
2-Butanone	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Carbon disulfide	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Carbon tetrachloride	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Chlorobenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Chloroethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Chloroform	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Chloromethane	ND		25	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
2-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
4-Chlorotoluene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
cis-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
cis-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Dibromochloromethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2-Dibromo-3-Chloropropane	ND		9.9	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2-Dibromoethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Dibromomethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,3-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,4-Dichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Dichlorodifluoromethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2-Dichloroethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,3-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
2,2-Dichloropropane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Di-isopropyl ether (DIPE)	ND		9.9	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Ethanol	ND		250	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Ethylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Ethyl-t-butyl ether (ETBE)	ND		9.9	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
2-Hexanone	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Isopropylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Methylene Chloride	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
4-Methyl-2-pentanone	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
m,p-Xylene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Naphthalene	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
n-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
N-Propylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
o-Xylene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
p-Isopropyltoluene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1

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# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Lab Sample ID: MB 570-8878/1-A**  
**Matrix: Solid**  
**Analysis Batch: 8891**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 8878**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Styrene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Tert-amyl-methyl ether (TAME)	ND		9.9	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
tert-Butyl alcohol (TBA)	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
tert-Butylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Tetrachloroethene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Toluene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
trans-1,2-Dichloroethene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
trans-1,3-Dichloropropene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2,3-Trichlorobenzene	ND		9.9	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1,1-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1,2-Trichloroethane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Trichloroethene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Trichlorofluoromethane	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2,3-Trichloropropane	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Vinyl acetate	ND		50	ug/Kg		07/30/19 15:47	07/30/19 23:42	1
Vinyl chloride	ND		5.0	ug/Kg		07/30/19 15:47	07/30/19 23:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120	07/30/19 15:47	07/30/19 23:42	1
Dibromofluoromethane	101		79 - 133	07/30/19 15:47	07/30/19 23:42	1
1,2-Dichloroethane-d4 (Surr)	103		71 - 155	07/30/19 15:47	07/30/19 23:42	1
Toluene-d8 (Surr)	102		80 - 120	07/30/19 15:47	07/30/19 23:42	1

**Lab Sample ID: LCS 570-8878/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8891**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8878**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	49.0	46.84		ug/Kg		96	78 - 120
Carbon tetrachloride	49.0	44.41		ug/Kg		91	49 - 139
Chlorobenzene	49.0	44.43		ug/Kg		91	79 - 120
1,2-Dibromoethane	49.0	45.20		ug/Kg		92	70 - 130
1,2-Dichlorobenzene	49.0	45.32		ug/Kg		92	75 - 120
1,2-Dichloroethane	49.0	49.56		ug/Kg		101	70 - 130
1,1-Dichloroethene	49.0	41.80		ug/Kg		85	74 - 122
Di-isopropyl ether (DIPE)	49.0	44.36		ug/Kg		91	78 - 120
Ethanol	490	362.6		ug/Kg		74	56 - 140
Ethylbenzene	49.0	44.34		ug/Kg		90	76 - 120
Ethyl-t-butyl ether (ETBE)	49.0	44.70		ug/Kg		91	70 - 124
Methyl-t-Butyl Ether (MTBE)	49.0	40.85		ug/Kg		83	70 - 124
m,p-Xylene	98.0	87.04		ug/Kg		89	70 - 130

Eurofins Calscience LLC

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Lab Sample ID: LCS 570-8878/2-A**  
**Matrix: Solid**  
**Analysis Batch: 8891**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 8878**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	49.0	44.03		ug/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane	102		79 - 133
1,2-Dichloroethane-d4 (Surr)	104		71 - 155
Toluene-d8 (Surr)	102		80 - 120

**Lab Sample ID: 570-2384-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 8891**

**Client Sample ID: B6-5**  
**Prep Type: Total/NA**  
**Prep Batch: 8878**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.4	37.86		ug/Kg		77	61 - 127
Carbon tetrachloride	ND		49.4	39.71		ug/Kg		80	51 - 135
Chlorobenzene	ND		49.4	35.67		ug/Kg		72	57 - 123
1,2-Dibromoethane	ND		49.4	37.29		ug/Kg		75	64 - 124
1,2-Dichlorobenzene	ND		49.4	35.48		ug/Kg		72	35 - 131
1,2-Dichloroethane	ND		49.4	40.32		ug/Kg		82	70 - 130
1,1-Dichloroethene	ND		49.4	37.28		ug/Kg		75	47 - 143
Di-isopropyl ether (DIPE)	ND		49.4	37.99		ug/Kg		77	57 - 129
Ethanol	ND		49.4	378.8		ug/Kg		77	17 - 167
Ethylbenzene	ND		49.4	36.92		ug/Kg		75	57 - 129
Ethyl-t-butyl ether (ETBE)	ND		49.4	36.92		ug/Kg		75	55 - 127
Methyl-t-Butyl Ether (MTBE)	ND		49.4	33.55		ug/Kg		68	57 - 123
m,p-Xylene	ND	F1	98.8	70.77		ug/Kg		72	70 - 130
o-Xylene	ND	F1	49.4	35.31		ug/Kg		71	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane	105		79 - 133
1,2-Dichloroethane-d4 (Surr)	108		71 - 155
Toluene-d8 (Surr)	99		80 - 120

**Lab Sample ID: 570-2384-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 8891**

**Client Sample ID: B6-5**  
**Prep Type: Total/NA**  
**Prep Batch: 8878**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	ND		49.7	34.50		ug/Kg		69	61 - 127	9	20
Carbon tetrachloride	ND		49.7	35.09		ug/Kg		71	51 - 135	12	29
Chlorobenzene	ND		49.7	32.89		ug/Kg		66	57 - 123	8	20
1,2-Dibromoethane	ND		49.7	35.22		ug/Kg		71	64 - 124	6	20
1,2-Dichlorobenzene	ND		49.7	35.16		ug/Kg		71	35 - 131	1	25
1,2-Dichloroethane	ND		49.7	38.94		ug/Kg		78	70 - 130	3	20
1,1-Dichloroethene	ND		49.7	32.91		ug/Kg		66	47 - 143	12	25
Di-isopropyl ether (DIPE)	ND		49.7	34.84		ug/Kg		70	57 - 129	9	20
Ethanol	ND		49.7	362.3		ug/Kg		73	17 - 167	4	47

Eurofins Calscience LLC

# QC Sample Results

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

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

**Lab Sample ID: 570-2384-1 MSD**

**Matrix: Solid**

**Analysis Batch: 8891**

**Client Sample ID: B6-5**

**Prep Type: Total/NA**

**Prep Batch: 8878**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Ethylbenzene	ND		49.7	33.49		ug/Kg		67	57 - 129	10	22	
Ethyl-t-butyl ether (ETBE)	ND		49.7	36.20		ug/Kg		73	55 - 127	2	20	
Methyl-t-Butyl Ether (MTBE)	ND		49.7	32.42		ug/Kg		65	57 - 123	3	21	
m,p-Xylene	ND	F1	99.4	65.07	F1	ug/Kg		65	70 - 130	8	20	
o-Xylene	ND	F1	49.7	32.80	F1	ug/Kg		66	70 - 130	7	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane	105		79 - 133
1,2-Dichloroethane-d4 (Surr)	108		71 - 155
Toluene-d8 (Surr)	100		80 - 120

# QC Association Summary

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

## GC/MS VOA

### Prep Batch: 8878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-1	B6-5	Total/NA	Solid	5030C	
570-2384-3	B6-15	Total/NA	Solid	5030C	
570-2384-5	B6-25	Total/NA	Solid	5030C	
570-2384-7	B6-35	Total/NA	Solid	5030C	
570-2384-8	B6-40	Total/NA	Solid	5030C	
570-2384-10	B6-50	Total/NA	Solid	5030C	
MB 570-8878/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-8878/2-A	Lab Control Sample	Total/NA	Solid	5030C	
570-2384-1 MS	B6-5	Total/NA	Solid	5030C	
570-2384-1 MSD	B6-5	Total/NA	Solid	5030C	

### Analysis Batch: 8891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-2384-1	B6-5	Total/NA	Solid	8260B	8878
570-2384-3	B6-15	Total/NA	Solid	8260B	8878
570-2384-5	B6-25	Total/NA	Solid	8260B	8878
570-2384-7	B6-35	Total/NA	Solid	8260B	8878
570-2384-8	B6-40	Total/NA	Solid	8260B	8878
570-2384-10	B6-50	Total/NA	Solid	8260B	8878
MB 570-8878/1-A	Method Blank	Total/NA	Solid	8260B	8878
LCS 570-8878/2-A	Lab Control Sample	Total/NA	Solid	8260B	8878
570-2384-1 MS	B6-5	Total/NA	Solid	8260B	8878
570-2384-1 MSD	B6-5	Total/NA	Solid	8260B	8878

# Lab Chronicle

Client: Citadel Environmental Services Inc  
 Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

## Client Sample ID: B6-5

Date Collected: 07/18/19 11:45

Date Received: 07/19/19 17:45

## Lab Sample ID: 570-2384-1

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			5.09 g	5 mL	8878	07/30/19 16:32	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8891	07/31/19 01:00	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B6-15

Date Collected: 07/18/19 11:55

Date Received: 07/19/19 17:45

## Lab Sample ID: 570-2384-3

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			4.98 g	5 mL	8878	07/30/19 16:32	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8891	07/31/19 02:43	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B6-25

Date Collected: 07/18/19 12:05

Date Received: 07/19/19 17:45

## Lab Sample ID: 570-2384-5

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			4.96 g	5 mL	8878	07/30/19 16:32	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8891	07/31/19 03:09	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B6-35

Date Collected: 07/18/19 12:30

Date Received: 07/19/19 17:45

## Lab Sample ID: 570-2384-7

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			4.82 g	5 mL	8878	07/30/19 16:32	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8891	07/31/19 03:34	BE5H	ECL 2
Instrument ID: GCMSLL										

## Client Sample ID: B6-40

Date Collected: 07/18/19 12:35

Date Received: 07/19/19 17:45

## Lab Sample ID: 570-2384-8

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			4.96 g	5 mL	8878	07/30/19 16:32	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8891	07/31/19 04:00	BE5H	ECL 2
Instrument ID: GCMSLL										



# Lab Chronicle

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

**Client Sample ID: B6-50**

**Lab Sample ID: 570-2384-10**

**Date Collected: 07/18/19 12:55**

**Matrix: Solid**

**Date Received: 07/19/19 17:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.17 g	5 mL	8878	07/30/19 16:32	P4DI	ECL 2
Total/NA	Analysis	8260B		1	5 mL	5 mL	8891	07/31/19 04:26	BE5H	ECL 2

Instrument ID: GCMSLL

## Laboratory References:

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vincente Blvd Phase II

Job ID: 570-2384-2

## Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0781	03-13-20
California	SCAQMD LAP	9	N/A	11-30-19
California	State Program	9	2944	09-30-19
Guam	State Program	9	19-004R	10-31-19
Hawaii	State Program	9	N/A	01-29-20
Nevada	State Program	9	CA00111	07-31-19
Oregon	NELAP Primary AB	10	CA300001	01-20-20
Washington	State Program	10	C916	10-11-19

# Method Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 2
5030C	Purge and Trap	SW846	ECL 2

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494



# Sample Summary

Client: Citadel Environmental Services Inc  
Project/Site: 333 S. San Vicente Blvd Phase II

Job ID: 570-2384-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-2384-1	B6-5	Solid	07/18/19 11:45	07/19/19 17:45	
570-2384-3	B6-15	Solid	07/18/19 11:55	07/19/19 17:45	
570-2384-5	B6-25	Solid	07/18/19 12:05	07/19/19 17:45	
570-2384-7	B6-35	Solid	07/18/19 12:30	07/19/19 17:45	
570-2384-8	B6-40	Solid	07/18/19 12:35	07/19/19 17:45	
570-2384-10	B6-50	Solid	07/18/19 12:55	07/19/19 17:45	

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## Donald Burley

---

**From:** Megan Roughan <mroughan@citadelehs.com>  
**Sent:** Monday, July 29, 2019 5:41 PM  
**To:** Donald Burley; Mike Pendergrass  
**Subject:** RE: Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vicente Blvd Phase II

EXTERNAL EMAIL\*

Hi Don,

Thank you for the lab reports.

I would like to request the additional analysis be run:

VOCs by EPA Method 8260B for these samples from the following borings.

### Boring 1

- B1-5
- B1-15
- B1-25
- B1-35
- B1-45
- B1-55

### Boring 2

- B2-5
- B2-10
- B2-20
- B2-30
- B2-45
- B2-55

### Boring 3

- B3-10
- B3-20
- B3-30
- B3-40
- B3-50
- B3-60

### Boring 4

- B4-5
- B4-15
- B4-25
- B4-30
- B4-40
- B4-50

### Boring 5

- B5-10
- B5-20
- B5-30

- B5-40
- B5-50
- B5-60

Boring 6

- B6-5
- B6-15
- B6-25
- B6-35
- B6-40
- B6-50

These samples can be analyzed at standard turnaround time. Please let me know if there's any issue.

Thank you,  
Meg

**Megan Roughan**

Staff Engineer, Engineering and Environmental Sciences



Los Angeles – Corporate Office

1725 Victory Blvd. GSA Advantage

Glendale, CA 91201

O: 818.246.2707

[www.citadelehs.com](http://www.citadelehs.com)

Glendale | Costa Mesa | Valencia

**From:** Don Burley <[noreply@eurofinslimsservices.com](mailto:noreply@eurofinslimsservices.com)>

**Sent:** Monday, July 29, 2019 5:11 PM

**To:** Mike Pendergrass <[MPendergrass@citadelehs.com](mailto:MPendergrass@citadelehs.com)>; Megan Roughan <[mroughan@citadelehs.com](mailto:mroughan@citadelehs.com)>

**Subject:** Eurofins Calscience report and EDD files from 570-2098-1 333 S. San Vincente Blvd Phase II

Hello,

Attached please find the report and EDD files for job 570-2098-1; 333 S. San Vincente Blvd Phase II

Please feel free to contact me if you have any questions.

Thank you.

**Don Burley**

Project Manager

Eurofins Calscience LLC

Phone: 714-895-5494

E-mail: [donaldburley@eurofinsus.com](mailto:donaldburley@eurofinsus.com)

[www.EurofinsUS.com](http://www.EurofinsUS.com)



Calscien



570-2384 Chain of Custody

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 8...  
For courier service / sample drop off information, contact us 26\_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY

Loc: 570  
2384

DATE: 7/19/2019  
PAGE: 1 OF 2

WO # / LAB USE ONLY

LABORATORY CLIENT: Citadel EHS		CLIENT PROJECT NAME / NUMBER: 333 S. San Vicente Blvd Phase II		P.O. NO.: 1234.1003	
ADDRESS: 1725 Victory Blvd		PROJECT CONTACT: Mike Pendergrass mpendergrass@citadelehs.com		SAMPLER(S): (PRINT) Megan Roughan	
CITY: Glendale STATE: CA ZIP: 91201					
TEL: 818-246-2707		E-MAIL: mpendergrass@citadelehs.com			

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:  
Please hold all samples except for BG-10 and BG-50

Please check box or fill in blank as needed.																
Unpreserved	Preserved	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chain <input type="checkbox"/> EPA <input type="checkbox"/> DOTSM	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
x						x								x		HOLD
x						x								x		
x						x								x		
x						x								x		
x						x								x		
x						x								x		HOLD
x						x								x		
x						x								x		
x						x								x		

LAB USE ONLY	SAMPLE ID	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
1	BG-5	7/18/19	1145	Soil	1
2	BG-10		1150		
3	BG-15		1155		
4	BG-20		1200		
5	BG-25		1205		
6	BG-30		1210		
7	BG-35		1230		
8	BG-40		1235		
9	BG-45		1245		
10	BG-50		1255		

Relinquished by: (Signature) <i>Megan Roughan</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/19/19	Time: 13:20
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 7/19/19	Time: 1745
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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8/5/2019





Calscience

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For courier service / sample drop off information, contact us 26 sales@eurofinsus.com or call us.

CHAIN OF CUSTODY

Loc: 570  
2384

DATE: 7/19/2019

PAGE: 2 OF 2

WO # / LAB USE ONLY

LABORATORY CLIENT: **Citadel EHS**

ADDRESS: **1725 Victory Blvd**

CITY: **Glendale** STATE: **CA** ZIP: **91201**

TEL: **818-246-2707** E-MAIL: **mpendergrass@citadelehs.com**

CLIENT PROJECT NAME / NUMBER: **333 S. San Vicente Blvd Phase II**

P.O. NO.: **1234.1003**

PROJECT CONTACT: **Mike Pendergrass**  
**mpendergrass@citadelehs.com**

SAMPLER(S): (PRINT)  
**Megan Roughan**

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  STANDARD

COELT EDF GLOBAL ID: LOG CODE:

SPECIAL INSTRUCTIONS:

**Please hold all samples except for BG-10 and BG-50**

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved (HCl)	Field Filtered	TPH(g) <input type="checkbox"/> GRO	TPH(d) <input type="checkbox"/> DRO	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH Full Carbon Chair <input type="checkbox"/> EPA 8015M	BTEX / MTBE <input type="checkbox"/> 8260 <input type="checkbox"/>	VOCs (8260)	Oxygenates (8260)	Prep (5035) <input type="checkbox"/> En Core <input type="checkbox"/> Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input checked="" type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747X	C(rv) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6
	11	7/18/19	1306	Soil	1	x						x									x	
	12		1305			x						x									x	
	13	7/18/19	1320	Water	3		x							x								

HOLD

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]*

Received by: (Signature/Affiliation) *[Signature]*

Received by: (Signature/Affiliation) *[Signature]*

Received by: (Signature/Affiliation) *[Signature]*

Date: 7/19/19 Time: 13:20

Date: 7/19/19 Time: 1745

Date: Time:

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8/5/2019

217-29-506



## Login Sample Receipt Checklist

Client: Citadel Environmental Services Inc

Job Number: 570-2384-2

**Login Number: 2384**

**List Source: Eurofins Calscience**

**List Number: 1**

**Creator: Castro, Joy**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with acct. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Appendix H

## Photo Log

## PHOTO LOG



**PHOTO 1:** Setting up at boring location B1 (7/16/19).



**PHOTO 2:** Drilling at boring B1 (7/16/19).



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Citadel Project No. 1234.1003.0



## PHOTO LOG



**PHOTO 3:** Drilling within the saturated zone (B1) (7/16/19).



**PHOTO 4:** Backfilling with bentonite grout (B1) (7/16/19).



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## PHOTO LOG



**PHOTO 5:** Patched asphalt following completion of drilling (7/16/19).



**PHOTO 6:** Drilling in the alley (B4) (7/17/19).



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## PHOTO LOG



**PHOTO 7:** Setting up at boring B5 (7/17/19)



**PHOTO 8:** Cleaning up following the completion of drilling (B4) (7/17/19)



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## PHOTO LOG



**PHOTO 9:** Drilling at location B5 with the limited access rig (7/18/19).



**PHOTO 10:** Setting up in the grass at location B6 (7/18/19)



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## PHOTO LOG



**PHOTO 11:** Drilling in the grass at location B6 with the limited access rig (7/18/19).



**PHOTO 12:** Location B6 following the completion of drilling and cleanup (7/18/19)



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Citadel Project No. 1234.1003.0



## PHOTO LOG



**PHOTO 13:** Drum storage location in the parking lot (7/18/19).



**PHOTO 14:** Drum storage location following the pickup of the drums (7/23/19)



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Citadel Project No. 1234.1003.0