

Air Quality Attribution Study Report

City Terrace East Los Angeles, California

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Prepared for: County of Los Angeles

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Executive Summary

Roux Associates, Inc. (Roux) has prepared this Air Quality Attribution Study Report (Report) on behalf of the County of Los Angeles (County) to measure ambient/outdoor air quality in and around the City Terrace Community (Community) in East Los Angeles, Los Angeles County, California, and evaluate potential sources of certain volatile organic compounds (VOCs) and methane in indoor and outdoor air within the Community (Figure 1).

Ambient/outdoor air conditions were previously investigated in the Community by Roux in the City Terrace Soil Gas and Indoor Air Sampling Report (Roux, 2023) and by consultant Citadel EHS (Citadel), in their Sampling Data Report (Citadel, 2023). These reports document elevated concentrations of certain VOCs, particularly benzene in ambient/outdoor air. Concentrations of benzene in ambient/outdoor air detected were consistent throughout the Community and are comparable to benzene levels measured throughout the greater Los Angeles area. The relative consistency of the concentrations measured at different locations and the lack of significantly elevated concentrations "hot spots" in any particular area of the Community suggest that the benzene levels are not associated with a particular point source, either within the Community or in the immediate vicinity of the Community, prompting this attribution study to better understand the relationship between the ambient/outdoor air quality and potential sources of VOCs (primarily benzene) and methane.

The Community is situated in close proximity to two major freeways, two former landfills, and several gasoline service stations/diesel fueling facilities. An evaluation of each of these potential sources of VOCs and methane in the Community was addressed by this attribution investigation via three distinct studies with objectives and scopes as summarized below.

- **Peak/Minimum Traffic Study:** To evaluate the effect that traffic and variation of traffic volume have on VOC and methane in ambient/outdoor air within the Community, a total of 26 ambient/outdoor air samples were collected over three rounds of sampling at the following four locations: adjacent to 710 Freeway, adjacent to 10 Freeway, adjacent to 10/710 Freeway intersection, and within the Community.
- Lateral Variation Study: To evaluate the effect that distance from the former nearby landfills and freeways has on VOC and methane concentrations in ambient/outdoor air in the Community, a total of 32 ambient/outdoor air samples were collected over the course of three rounds of sampling at 10 locations. The sampled locations were adjacent to former Cogen Landfill, adjacent to former Blanchard Landfill, intersection of the 710 and 10 Freeways, 0.125 miles from nearest freeway, 0.25 miles from nearest freeway, 0.50 miles from nearest freeway, 0.75 miles from nearest freeway, 0.25 miles from the 10 Freeway, 0.5 miles from the 10 Freeway, and 0.75 miles from the 10 Freeway.
- Gasoline Service Station / Fueling Facilities Study: To evaluate the effect that nearby active fueling facilities/gasoline service stations have on VOCs and methane in ambient/outdoor air in the Community. A total of six ambient/outdoor air samples (five primary and one duplicate) were collected at the following five locations: four fueling sites and one location in the Community distant from the gas stations/fueling facilities.

As with previous investigations, VOCs and methane were detected throughout the Community in ambient/outdoor air. In particular, benzene exceeded residential screening levels (SLs) in nearly all of the

samples collected. While other VOCs and methane were detected in the samples, there were far fewer screening level exceedances, and detections were typically isolated and not indicative of a significant release. A summary of the results and conclusions is provided below.

Benzene: Benzene was detected in all of the ambient/outdoor air samples collected and analyzed in the study, with all concentrations exceeding the residential SL of 0.097 µg/m3 (DTSC, rev. 2022), indicating widespread and consistent distribution of benzene throughout the Community. The range of concentrations were consistent with, or lower than, established background conditions throughout the greater Los Angeles area. These concentrations are primarily from vehicle exhaust (typical daily benzene concentrations in Los Angeles Air Basin ambient/outdoor air range from 0.73 to 1.25 µg/m³, with a Basin-wide average of 0.92 µg/m³).¹

Benzene concentrations are generally elevated in close proximity to freeways. Increased traffic volume is correlated with higher concentrations of benzene in ambient/outdoor air. Locations in close proximity to a freeway (within 500 feet) have modestly elevated benzene concentrations compared to the wider Los Angeles ambient/outdoor air. To the contrary, County fueling facilities, nearby privately operated gasoline service stations, and the downwind former landfills do not have any measurable effect on benzene concentrations within the Community.

- Other VOCs: Along with benzene, the other BTEX compounds (toluene, ethylbenzene, and xylenes) commonly associated with petroleum products were detected in all ambient/outdoor air samples collected, but at concentrations lower than the corresponding SLs. Three additional VOCs, chloroform, methylene chloride, and trichloroethene (TCE), were detected in exceedance of one or more applicable SL in ambient/outdoor air samples over the course of the investigation. However, these analytes were only detected in a small subset of the samples; they were not consistently detected throughout the investigation and are thus not considered to be contaminants of concern in ambient/outdoor air.
- **Methane:** Methane was detected in the majority of samples, but below the methane Lower Explosive Limit (LEL) of 50,000 parts per million by volume (ppmv) by multiple orders of magnitude and is thus not considered to be a contaminant of concern in ambient/outdoor air.

¹ <u>http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v/mates-v-air-monitoring-dashboard</u>

1. Introduction

Roux Associates, Inc. (Roux) has prepared this *Air Quality Attribution Study Report* (Report) on behalf of the County of Los Angeles (County) to document an evaluation of the ambient/outdoor air quality in and around the City Terrace Community (Community) in East Los Angeles, Los Angeles County, California (Figure 1). The evaluation included sampling and analysis of ambient/outdoor air associated with nearby features including interstate freeways, landfills, and fueling facilities. Ambient/outdoor air conditions were previously investigated in the Community by Roux, as described in the *City Terrace Soil Gas and Indoor Air Sampling Report* (Roux, 2023) and by consultant Citadel EHS (Citadel), as presented in their City Terrace/Former Cogen Landfill Property *Sampling Data Report* (Citadel, 2023). Elevated detections of certain volatile organic compounds (VOCs), particularly benzene, were identified in ambient/outdoor air.

The Community is in close proximity to two major freeways, two former landfills, and several gasoline service stations/diesel fueling facilities. Freeways are known to be a source of VOCs, particularly benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), due to fuel exhaust from vehicles, and historical landfills have the potential to contribute methane and VOCs to ambient/outdoor air conditions as a result of the natural attenuation of organic waste. Gasoline service stations/diesel fueling facilities are also known to be a source of VOCs due to emissions of vapors during fuel dispensing, as well as the presence of underground storage tanks (USTs) and/or aboveground storage tanks (ASTs) that contain the petroleum products.

1.1 Objectives

Due to elevated detections in previous investigations of VOCs, particularly benzene, the County contracted Roux to investigate ambient/outdoor air conditions in proximity to potential sources of VOCs (primarily benzene) and methane within the Community. The attribution investigation documented in this report included three distinct studies with objectives as summarized below:

- **Peak/Minimum Traffic Study:** Evaluate the effect that traffic and variation of traffic volume have on VOC and methane impacts to ambient/outdoor air within the Community;
- Lateral Variation Study: Evaluate the effect that horizontal distance from the former Cogen Landfill and nearby freeways has on VOC and methane impacts to ambient/outdoor air within the Community; and,
- **Gasoline Service Station / Fueling Facilities Study:** Evaluate the effect that nearby active fueling facilities/gasoline service stations have on VOC and methane impacts to ambient/outdoor air within the Community.

1.2 Scope of Work

The scope of work completed by Roux for this investigation is summarized below. Investigation activities included the collection of limited-duration ambient/outdoor air samples as well as 24-hour ambient/outdoor air samples to evaluate the objectives described above. The areas of investigation and sampling locations within the vicinity of the Community are shown in Figure 3.

Roux collected a total of 63 ambient/outdoor air samples (57 primary and six duplicate samples) as part of this investigation. These three data sets were used to evaluate the ambient/outdoor air quality (VOCs and methane) during peak and minimum traffic periods, with distance from the nearby freeways and landfill, and in the vicinity of local fueling facilities.

2. Background

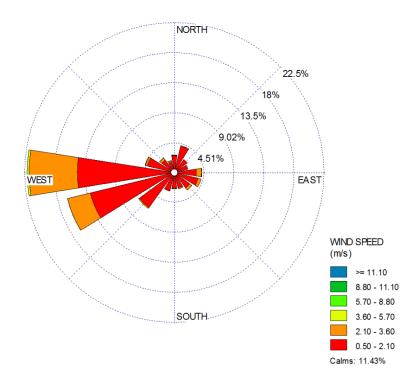
2.1 Study Area Description

For the purposes of this Attribution Study Report, the Study Area is considered to be the residential portion of the Community within approximately 1,000 feet of the former Cogen Landfill as well as the surrounding area generally bound by the San Bernardino (I-10) Freeway to the north and the Long Beach (I-710) Freeway to the east (Figures 1 and 2).

The Community is an unincorporated community of East Los Angeles within Los Angeles County, California. The Community is bounded to the north by East City Terrace Drive, to the west by North Eastern Avenue, to the south by Hauck Street, and to the east by Rollins Drive/Sheriff Road. The Study Area includes sampling locations along public rights of way, along I-10 / I-710 on-ramps, and on County property between the eastern boundary of City Terrace and the I-710 Freeway (Figure 3).

Two historical landfills, the former Cogen Landfill and the former Blanchard Landfill, both of which were privately owned and operated by the BKK Corporation, ceased operations in 1958, and are located to the southeast of the Community.

The prevailing wind direction within the study area has been documented to be blowing west to east. This is supported through data collected from the USC/Downtown weather station by the South Coast Air Quality Management District (SCAQMD) and represented by wind rose reproduced below. Where appropriate, the studies conducted herein were undertaken only when the forecast wind direction was aligned with the prevailing direction (west to east) or when conditions were considered to be calm (i.e., no wind).



2.2 **Previous Investigations**

In 2021, soil gas sampling and ambient/outdoor air sampling were conducted within the Community by Citadel at the direction of the County. A total of 67 soil gas samples and 26 ambient/outdoor air samples were collected in the vicinity of 27 residential properties and two additional locations in an alleyway. These samples were analyzed for the presence of VOCs and methane. The results of the investigation identified elevated concentrations of VOCs, particularly benzene.

In February and March 2023, Roux performed an additional assessment of soil gas, indoor air, and ambient/outdoor air in the Community. The assessment was performed at all 23 of the residences included in the earlier Citadel investigation that agreed to have additional testing performed (Roux, 2023). Numerous VOCs and methane were detected across the Community in soil gas, indoor air, and ambient/outdoor air. While VOCs other than benzene were detected (along with methane), there were far fewer screening level exceedances, and detections were typically isolated and not indicative of a broad release across the community. In contrast, benzene exceeded residential screening levels (SLs) for indoor air in virtually all of the samples collected.

Concentrations of benzene in ambient/outdoor air were consistent across the Community, ranging from 0.40 to 1.1 micrograms per cubic meter (μ g/m³), in line with benzene levels experienced throughout the greater Los Angeles area.² The spatial distribution and lack of significantly elevated concentrations in any particular area of the Community suggest that the benzene impacts are not associated with a particular point source, either within the Community or immediate vicinity, prompting this attribution study to better understand the relationship between the ambient/outdoor air quality, the former Cogen and Blanchard Landfills, the nearby interstate freeways, and the various nearby gasoline service stations/fueling facilities.

² Typical daily benzene concentrations in Los Angeles Air Basin ambient/outdoor air range from 0.73 to 1.25 μg/m³, with a Basin-wide average of 0.92 μg/m³ (2018-2019) <u>http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v/mates-v/air-monitoring-dashboard</u>

3. Attribution Study Implementation

This attribution study was performed on behalf of the County to investigate the effect that traffic and variation of traffic volume, distance from the nearby freeways and landfill properties, and nearby active fueling facilities have on ambient/outdoor air quality, specifically VOCs and methane, in the vicinity of the Community. The field activities were completed between April 7 and May 11, 2023. All work described in this report was conducted under the direction of a California-registered Professional Civil Engineer.

3.1 **Pre-Field Activities**

No subsurface work was carried out during the implementation of this fieldwork; thus, no permits were required. Where necessary, access to sampling locations on County property was coordinated with Los Angeles County Fleet Management and the Los Angeles County Fire Department.

3.1.1 Health and Safety Plan

Prior to the start of field activities, Roux reviewed and updated the Site-specific HASP dated February 17, 2023, to ensure worker safety (Roux, 2023). All fieldwork associated with the investigation was performed in accordance with the Site-specific HASP. The HASP identified the potential physical and chemical hazards at the Site that could present a potential threat to workers during the authorized scope of work. The HASP also identified best practices related to the reduction of risk due to the COVID-19 virus. Field workers acknowledged their familiarity with all safety procedures and indicated their intent to follow the HASP by signing the HASP after the tailgate safety meeting, which took place at the beginning of each field day.

3.2 Peak/Minimum Traffic Study

To evaluate the effects of traffic and variation of traffic volume on VOCs and methane in ambient/outdoor air, Roux collected limited-duration (approximately three-hour) ambient/outdoor air samples during periods of peak traffic flow (between 07:00 and 10:00 a.m.) and minimum traffic flow (between 01:00 and 04:00 a.m.) at four sample locations (shown in Figure 3).

The four sampling locations were as:

- Adjacent to the 710 Freeway,
- Adjacent to the 10 Freeway,
- At the intersection of the 710 and 10 Freeways, and
- At a location central to the Community.

To aggregate varying traffic patterns, Roux conducted three rounds of sampling on (non-repeated) weekdays on April 7, April 12, April 18, and April 26, 2023 (see Section 3.2.2 for details). Sampling and analysis procedures are discussed in the following sections.

3.2.1 Areas of Investigation

The Peak/Minimum Traffic Study was conducted at four locations in the public right of way (as shown in Figure 3).

	Areas	of Investigation – Pe	eak/Minimum Traffic Study
Location Description	Approximate Location	Approximate Coordinates	Associated Sample IDs
Adjacent to 710 Freeway	710 Shoulder of I- 34.05762 710 710 NB Exit 118.164	34.057627, - 118.164829	AA-710-20230407-0058 AA-710-20230412-0105 AA-710-20230418-0104 AA-710-20230407-0700 AA-710-20230407-0700-D AA-710-20230418-0707
Adjacent to 10 Freeway	3912 Perry Street, Los Angeles, CA	34.056696, - 118.181205	AA-710-20230426-0700 AA-10-20230407-0108 AA-10-20230412-0110 AA-10-20230418-0105 AA-10-20230407-0705 AA-10-20230418-0704 AA-10-20230426-0645
Adjacent to 10/710 Freeway Intersection	North Shoulder of I- 710 NB Ramp to I-10 WB	34.061136, - 118.163911	AA-710/10-20230425-0043 AA-710/10-20230412-0100 AA-710/10-20230418-0057 AA-710/10-20230418-0057-D AA-710/10-20230407-0651 AA-710/10-20230418-0656 AA-710/10-20230426-0705
Community	4350 Hauck Street, Los Angeles, CA	34.054414, - 118.170938	AA-CT-20230407-0100 AA-CT-20230412-0055 AA-CT-20230418-0055 AA-CT-20230407-0655 AA-CT-20230418-0655 AA-CT-20230426-0650

3.2.2 Sampling – Peak/Minimum Traffic Study

During this portion of the study, Roux collected a total of 26 ambient/outdoor air samples (24 primary and two duplicate). Samples were collected in individually certified six-liter SUMMA® canisters with three-hour flow controllers at a height of approximately four to six feet above the ground at locations in the public right of way.

On April 12, 2023, sample collection during peak traffic hours was prevented due to defective flow controllers. Replacement samples were collected during peak traffic hours on April 26.

Samples were labeled, logged on a chain of custody form, and transported to a California certified laboratory, Pace Analytical Environmental Sciences, for analysis. The samples were analyzed for VOCs using USEPA Method TO-15 (SIM) and methane using ASTM Method D1946.

3.3 Lateral Variation Study

The lateral variation portion of the study was intended to evaluate the relationship between VOC and methane impacts to ambient/outdoor air, prevailing wind direction, and lateral distance from potential sources. The potential sources consisted of the I-710 Freeway, the I-10 Freeway, the former Cogen Landfill, and the former Blanchard Landfill. This portion of the study was implemented across three 24-hour sampling events initiated on April 17, April 19, and April 27, 2023.

3.3.1 Areas of Investigation

The lateral variation portion of the study was conducted along two distinct (but intersecting) transects (Figure 5).

The first transect was positioned in alignment with the prevailing wind direction (Prevailing Wind Sampling Transect). Collection of 24-hour ambient/outdoor air samples was carried out at four sample locations spaced 0.25 miles apart along a west-east transect (the direction of prevailing wind) starting at the I-10 Freeway to the west and ending within the Community vicinity to the east. Concurrent 24-hour ambient/outdoor air samples were also collected adjacent to the former Cogen Landfill and former Blanchard Landfill to determine any possible influence from the former solid waste facilities. This portion of the study was implemented on days with neutral wind conditions or where wind direction was forecast to be in the prevailing direction (west to east), consistent with normal conditions.

The second transect was positioned to evaluate VOC and methane impacts in ambient/outdoor air against overall lateral distance from the nearby freeways (Separation Sampling Transect). Collection of 24-hour ambient/outdoor air samples was carried out at five sample locations: one at the I-10 / I-710 interchange and then at approximately 0.125, 0.25, 0.5, and 0.75 miles from any freeway.

It is noted that a reasonable distance to consider as the near source zone for traffic impacts is thought to be approximately 500 meters (0.3 miles)^{3,4,5}. This is consistent with the USEPA guidance on the influence of roadways on air quality, which references 500 to 600 feet ⁶ (0.095 to 0.114 miles) as a reasonable distance to observe influence on air quality for particulates (non-particulates, including VOCs and methane, have the potential to impact a greater distance due to their gaseous state).

An overview of the Lateral Variation Study sampling locations and sample IDs is illustrated in Figure 5 and provided in the table below.

³ M Johnson, V Asakov, J S Touma, S Mukerjee, H Ozkaynak, *Evaluation of Land-Use Regression Models Used to Predict Air Quality Concentrations in an Urban Area*, Atmospheric Environment, September 2010.

⁴ J Kim, S Smorodinsky, M Lipsett, B C Singer, A T Hodgson, B Ostro, *Traffic-related Air Pollution near Busy Roads, The East Bay Children's Respiratory Health Study*, American Journal of Respiratory and Critical Care Medicine, May 2004.

⁵ Y Zhu , W Hinds , S Kim, C Sioutas, *Concentration and Size Distribution of Ultrafine Particles Near a Major Highway*, Journal of the Air & Waste Management Association, 52:9, 1032-1042, DOI: 10.1080/10473289.2002.10470842, September 2002.

⁶ *Near Roadway Air Pollution and Health: Frequently Asked Questions*, Office of Transportation and Air Quality, August 2014

	Areas of Investigat	ion – Lateral Variation Stu	dy			
Location Description	Approximate Location	Approximate Coordinates	Associated Sample IDs			
	Separation	Sampling Transect				
Adjacent to former Cogen Landfill	1198 Sheriff Road, Monterey Park	34.055052, -118.168696	AA-CL-20230417 AA-CL-20230419 AA-CL-20230427			
Adjacent to former Blanchard Landfill	1158 Sheriff Road, Monterey Park	34.050492, -118.169277	AA-BL-20230417 AA-BL-20230419 AA-BL-20230427			
710/10 Intersection	South shoulder of on ramp from West Ramona Blvd to I-710 Southbound	34.060392, -118.166019	AA-710/10-20230417 AA-710/10-20230419 AA-710/10-20230427 AA-710/10-20230427-D			
0.125 miles from Nearest Freeway	,		AA-0.125MI-20230417 AA-0.125MI-20230417-D AA-0.125MI-20230419 AA-0.125MI-20230427			
0.25 miles from Nearest Freeway	1452 Volney Drive, Los Angeles	34.057115, -118.169291	AA-0.25MI-20230417 AA-0.25MI-20230419 AA-0.25MI-20230427			
0.50 miles from Nearest Freeway	1126 North Hazard Avenue, Los Angeles	34.050260, -118.177912	AA-0.5MI-20230417 AA-0.5MI-20230419 AA-0.5MI-20230427			
0.75 miles from Nearest Freeway	3822 Folsom Street, Los Angeles	34.044893, -118.184159	AA-0.75MI-20230417 AA-0.75MI-20230419 AA-0.75MI-20230419-D AA-0.75MI-20230427			
	Prevailing W	ind Sampling Transect				
0.25 miles from 10 Freeway	3828 City Terrace Drive, Los Angeles	34.055647, -118.182434	AA-PW1-20230417* AA-PW1-20230419 AA-PW1-20230427			
0.5 miles from 10 Freeway	4026 City Terrace Drive, Los Angeles	34.055504, -118.178360	AA-PW2-20230417 AA-PW2-20230419 AA-PW2-20230427			
0.75 miles from 10 Freeway Los Angeles		34.056270, -118.174257	AA-PW3-20230417 AA-PW3-20230419 AA-PW3-20230427			

* AA-PW1-20230417 could not be collected due to SUMMA canister theft during deployment.

3.3.2 Sampling – Lateral Variation Study

Over the course of the Lateral Variation Study, Roux collected a total of 32 ambient/outdoor air samples (29 primary and three duplicate). Samples were collected and analyzed using the same methods described in Section 3.2.2.

3.4 Gasoline Service Station / Fueling Facilities Study

To evaluate the effects of nearby gasoline service stations/fueling facilities (including USTs/ASTs) on VOCs and methane in ambient/outdoor air, Roux collected 24-hour ambient/outdoor air samples at four active petroleum product fueling locations. For comparison, a 24-hour ambient/outdoor air sample was also collected at a location within the Community not in the vicinity of the gasoline service stations for comparison, concurrent with the fueling facility samples. Sample locations are shown in Figure 6. Sampling and analysis procedures are discussed in the following sections.

3.4.1 Access and Areas of Investigation

A	Areas of Investigati	on – Fueling Facilities St	tudy										
Location Description	Approximate Location	Approximate Coordinates	Associated Sample IDs										
Fueling Facilities													
Fueling Site A (UST-A)	1600 North Eastern Avenue	34.060074, -118.172971	AA-UST-A-20230511										
Fueling Site B (UST-B)	1535 North Eastern Avenue	34.059105, -118.172852	AA-UST-B-20230511										
Fueling Site C (UST-C)	1104 North Eastern Avenue	34.049719, -118.171566	AA-UST-C-20230511 AA-UST-C-20230511-D										
Fueling Site D (UST-D)	1108 Sheriff Road	34.050054, -118.170863	AA-UST-D-20230511										
Community Comparison Sample													
Community	4342-4398 Hauck Street	34.054567, -118.170549	AA-CT-20230511										

The investigation was conducted at five sample locations (shown in Figure 6).

Fueling Site A and Fueling Site B are self-service gasoline service stations operated by Mobil and Chevron, respectively. Fueling Site C is the location of a self-service fueling facility operated by Los Angeles County Fleet Management, and it is the primary fueling facility for the Sheriff's Department. Fueling Sites A, B, and C are suspected to operate at least one gasoline UST. Fueling Site D is the location of a single self-service diesel fuel dispenser and associated AST operated by Los Angeles County Fire Station #1. Each of these fueling facilities are active fueling operations with continuous daily use.

3.4.2 Sampling – Fueling Facilities Study

Over the course of this phase of the investigation, Roux collected a total of six ambient/outdoor air samples (five primary and one duplicate). Samples were collected and analyzed using the same methods described in Section 3.2.2.

3.5 Sample Identification

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



The above example represents a duplicate ambient/outdoor air sample collected at 07:00 a.m. from the Peak/Minimum Traffic Study at the sample location adjacent to the 710 Freeway. Ambient/outdoor air samples collected for the Lateral Variation Study and Fueling Facilities Study omit the sample deployment time.

3.6 Field Sampling Quality Control

Field quality assurance/quality control samples were collected during the investigation to assess whether reported concentrations of chemicals identified through analytical testing were of acceptable quality. Six ambient/outdoor air sample field duplicates were collected to check for sampling and analytical precision. The six duplicate ambient/outdoor air samples were collected, labeled (all duplicate sample IDs end with a "-D" designation), and stored in the same manner as the primary samples. The duplicates were analyzed for the same analytes according to the same methods as the primary samples.

No significant anomalies were observed between primary and duplicate samples with respect to VOCs. The average relative percentage difference (RPD) between primary and duplicate ambient/outdoor air sample pairs for benzene was 3.4%. All primary and duplicate sample pairs had an RPD below 50% for benzene, in accordance with USEPA guidance (USEPA, 2020).

4. Analytical Results

Ambient/outdoor air results were evaluated in the context of the following screening levels (SLs), where applicable:

- California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Notes 3 and 5 Screening Levels (SLs) for Residential Air (DTSC, rev. 2022)
- If DTSC HERO HHRA SLs were unavailable for a given chemical, United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) for Residential Air THQ = 1.0 (USEPA, rev. 2022) were used for comparison
- If neither DTSC SLs nor USEPA RSLs were available for a given chemical, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Levels (ESLs) for Indoor Air (SFBRWQCB, rev. 2019) were used for comparison.
- Methane results are evaluated according to the Lower Explosive Limit (LEL) for methane (50,000 parts per million by volume [ppmv]).⁷

The following section summarizes the laboratory analytical results of the ambient/outdoor air samples. Full copies of the laboratory reports are provided in Appendix A.

4.1 Analytical Results – Peak/Minimum Traffic Study

4.1.1 VOCs in Ambient/Outdoor Air

A total of 26 ambient/outdoor air samples were collected during the Peak/Minimum Traffic Study and were analyzed for VOCs using USEPA Method TO-15 SIM. A total of 13 VOC analytes were detected above the laboratory practical quantitation limit (PQL) in one or more of the ambient/outdoor air samples. Certain VOCs (acetone, dichlorodifluoromethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoromethane, and BTEX compounds) were detected in all of the samples analyzed during the study (Table 1).

Two of the 13 analytes detected, benzene and methylene chloride, were reported at concentrations that exceeded their corresponding SLs for residential air. A summary of these detections is presented below:

- Benzene was detected in exceedance of the laboratory PQL in all 25 of the ambient/outdoor air samples at concentrations ranging from 0.33 μg/m³ (AA-710-20230412-0105) to 1.9 μg/m³ (AA-710/10-20230407-0651). All 25 detections exceeded the DTSC HERO HHRA Note 3 SL of 0.097 μg/m³.
- Methylene chloride was detected in exceedance of the laboratory PQL in two of the ambient/outdoor air samples at concentrations ranging from 4.9 μg/m³ (AA-710/10-20230426-0705) to 8.3 μg/m³ (AA-CT-20230418-0655). These two detections exceeded the DTSC HERO HHRA Note 3 SL of 1.0 μg/m³.

⁷ Methane is non-toxic and creates no hazard when inhaled in limited quantities; however, if large quantities of natural gas or methane is allowed to displace air, lack of oxygen may result in suffocation. Methane concentrations identified throughout this study are several orders of magnitude below the levels that could cause this condition.

4.1.2 Methane in Ambient/Outdoor Air

Methane was detected in all 26 ambient/outdoor air samples in exceedance of the laboratory PQL, with concentrations ranging from 1.8 ppmv (AA-10-20230418-0105) to 67 ppmv (AA-710/10-20230418-0057-D). None of the 26 methane detections exceeded the LEL of methane at 50,000 ppmv (Table 1).

4.2 Analytical Results – Lateral Variation Study

4.2.1 VOCs in Ambient/Outdoor Air

A total of 32 ambient/outdoor air samples were collected during the Lateral Variation Study and were analyzed for VOCs using USEPA Method TO-15 SIM. A total of 14 VOC analytes were detected above the laboratory PQL in one or more of the ambient/outdoor air samples. Certain VOCs (acetone, dichlorodifluoromethane, 1,1-difluoroethane [1,1-DFA], trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoromethane, and BTEX compounds) were detected in all of the samples analyzed during the study (Table 2).

Three of the 14 analytes, benzene, chloroform, and trichloroethene, were reported at concentrations that exceeded their corresponding SLs for residential air. A summary of these results is presented below:

- Benzene was detected in exceedance of the laboratory PQL in 32 of the 32 ambient/outdoor air samples at concentrations ranging from 0.45 μg/m³ (AA-CL-20230417) to 1.8 μg/m³ (AA-PW1-20230427). All 32 detections exceeded the DTSC HERO HHRA Note 3 SL of 0.097 μg/m³.
- Chloroform was detected in exceedance of the laboratory PQL in two of the 32 ambient/outdoor air samples at concentrations ranging from 0.27 μg/m³ (AA-CL-20230417) to 0.31 μg/m³ (AA-0.125MI-20230417). Both detections exceeded the USEPA RSL for Residential Air (THQ = 1.0) of 0.12 μg/m³.
- Trichloroethene (TCE) was detected in exceedance of the laboratory PQL in 11 of the 25 ambient/outdoor air samples at concentrations ranging from 0.57 µg/m³ (AA-0.75MI-20230419-D) to 4.5 µg/m³ (AA-0.75MI-20230419). Nine of the 25 detections exceeded the DTSC HERO HHRA Note 5 Screening Level for Residential Air for Trichloroethylene (August 2014) of 3.0 µg/m³.

The two chloroform detections were isolated to AA-CL-20230417 and AA-0.125MI-20230417 and are not indicative of a widespread contaminant of concern. TCE detections occurred in all samples gathered on April 19, 2023 as part of this portion of the investigation and appear to reflect some activity specific to that day and does not appear to represent an ongoing or widespread contaminant of concern. No detections were reported in other sampling rounds as part of this portion of the investigation.

4.2.2 Methane in Ambient/Outdoor Air

Methane was detected in 25 of the 32 ambient/outdoor air samples in exceedance of the laboratory PQL, with concentrations ranging from 1.9 ppmv (AA-BL-20230417 and AA-0.5MI-20230417) to 80 ppmv (AA-0.5MI-20230417). None of the 25 methane detections exceeded the LEL of methane at 50,000 ppmv (Table 2).

4.3 Analytical Results – Fueling Facilities Study

4.3.1 VOCs in Ambient/Outdoor Air

A total of six ambient/outdoor air samples were collected during the gasoline service station/fueling facilities study and were analyzed for VOCs using USEPA Method TO-15 SIM. A total of 11 VOC analytes were detected above the PQL in one or more ambient/outdoor air samples. Certain VOCs (acetone, dichlorodifluoromethane, 1,1-DFA, trichlorofluoromethane, 1,1,2-trichloro-1,2,2-trifluoromethane, and BTEX compounds) were detected in all of the samples analyzed during the study (Table 3).

One of the 11 analytes, only benzene was reported at concentrations exceeding the corresponding SL for residential air. Benzene was detected in exceedance of the laboratory PQL in all six of the six ambient/outdoor air samples at concentrations ranging from 0.59 μ g/m³ (AA-CT-20230511) to 1.2 μ g/m³ (AA-UST-A-20230511 and AA-UST-B-20230511). All six detections exceeded the DTSC HERO HHRA Note 3 SL of 0.097 μ g/m³.

4.3.2 Methane in Ambient/Outdoor Air

Methane was detected in all six of the ambient/outdoor air samples in exceedance of the laboratory PQL, with concentrations ranging from 2.9 J ppmv (AA-UST-A-20230511) to 4.0 ppmv (AA-CT-20230511). None of the six methane detections exceeded the LEL of methane at 50,000 ppmv (Table 3).

5. Analysis and Conclusions

As expected, benzene was detected in all 57 of the ambient/outdoor air samples collected and analyzed during this study, with all concentrations exceeding the DTSC residential SL for residential air, indicating widespread and consistent distribution of benzene throughout the Study Area. Although all benzene concentrations in ambient/outdoor air exceeded the SL, the range of concentrations were consistent with, or lower than, established background conditions throughout the greater Los Angeles area (typical daily benzene concentrations in Los Angeles Air Basin ambient/outdoor air range from 0.73 to 1.25 μ g/m³, with a Basin-wide average of 0.92 μ g/m³).⁸ The distribution of benzene in ambient/outdoor air for each phase of the study is illustrated in Figures 4, 5, and 6.

Throughout this section, Roux performed a series of statistical analyses using the Student's t-Test. This statistical test is commonly used to determine whether mean average values between data sets are significantly different from one another. Considering the limited size of the data sets, Roux has used a p-value of 0.01 as a conservative measure of statistical significance. If the calculated Student's t-Test p-value is less than 0.01, the data sets are considered to be significantly different from one another. Overall, benzene concentrations in ambient/outdoor air across the City Terrace Community (for all data collected by Roux in 2023; average = $0.65 \mu g/m^3$) are significantly different (lower) than the greater Los Angeles Air Basin in 2018/2019 (average = $0.92 \mu g/m^3$), with a p-value of 0.0016.

Methane was detected above the laboratory PQL in the majority of samples, but below the methane LEL by multiple orders of magnitude and is thus not considered to be a contaminant of concern in ambient/outdoor air. Along with benzene, the other BTEX compounds (toluene, ethylbenzene, and xylenes) were detected in all ambient/outdoor air samples collected, albeit at concentrations lower than the corresponding SLs. Three additional VOCs, chloroform, methylene chloride, and TCE, were detected in exceedance of one or more applicable SL in ambient/outdoor air samples over the course of the investigation. However, these analytes were only detected in a small subset of the samples; they were not consistently detected throughout the investigation and are thus not considered to be contaminants of concern in ambient/outdoor air.

The following sections discuss benzene concentrations and trends for each of the three ambient/outdoor air studies included in this Report. Supporting calculations for the Student's t-Test analyses is provided in Appendix B.

5.1 Peak/Minimum Traffic Study

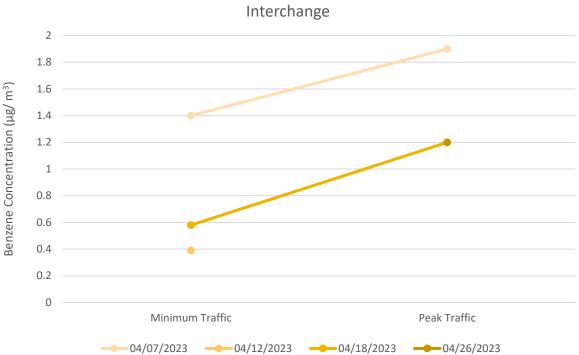
Benzene detections during peak and minimum traffic conditions were variable, ranging from 0.33 μ g/m³ to 1.9 μ g/m³. Benzene detections were found to be lower during minimum traffic conditions (01:00 to 04:00 a.m.) compared to peak traffic conditions (07:00 to 10:00 a.m.); only one minimum traffic sample had a benzene concentration that exceeded its corresponding peak traffic sample (AA-10-20230407-0108 and AA-10-20230407-0705). It is suspected that this sample may have been influenced by a nearby point source such as an idling vehicle. In general, Benzene detections for both peak and minimum traffic conditions were considerably higher on April 7, 2023 compared to the other days, with an average concentration of 1.4 μ g/m³.

⁸ <u>http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v/mates-v-air-monitoring-dashboard</u>

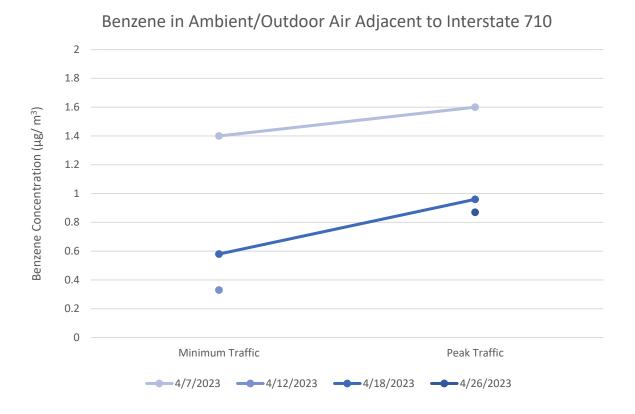
It is suspected that differential environmental conditions (e.g., air quality, windspeed) influenced benzene concentrations on that day.

Ambient/outdoor air results from within the Community showed consistently higher benzene concentrations during peak traffic hours when compared to the corresponding minimum traffic periods. Excluding the data collected on April 7, 2023, benzene concentrations were significantly different between peak and minimum traffic conditions when comparing results for freeway-adjacent samples and Community samples, with Student t-Test calculated p-values of 2.2 x 10⁻⁵ and 0.005, respectively. This suggests that the variation is not limited to areas immediately adjacent to the freeways and could be partially attributed to time of day / outdoor temperature. The trend indicating higher benzene concentrations during peak traffic conditions is illustrated in the four charts below.

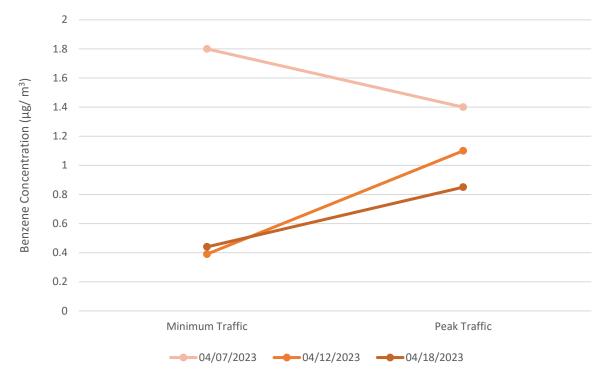
The trend indicates that increased traffic volume is correlated with higher concentrations of benzene in ambient/outdoor air and that heavy traffic should be considered the most likely contributor to benzene concentrations within the Community and the Los Angeles Basin in general.



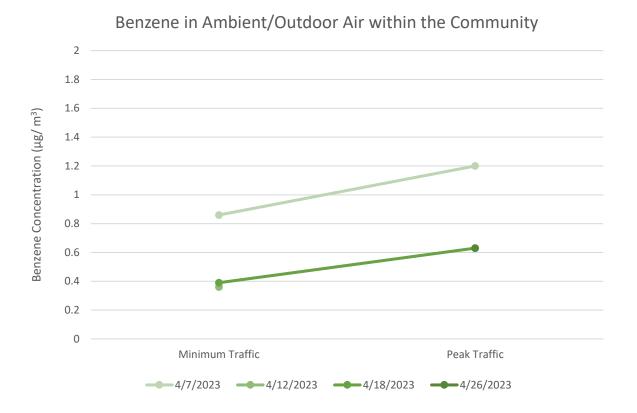
Benzene in Ambient/Outdoor Air Adjacent to Interstate 710 / 10



Benzene in Ambient/Outdoor Air Adjacent to Interstate 10



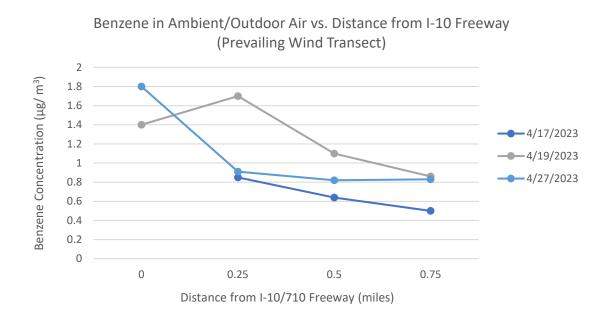
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Benzene detections in ambient/outdoor air were also generally lower in the Community compared to those near the freeways during both minimum and peak traffic conditions. Benzene detections on average were approximately 51% higher near the freeways during minimum traffic conditions and approximately 49% higher during peak traffic conditions compared to detections recorded in the Community. This trend is further discussed in Section 5.2.

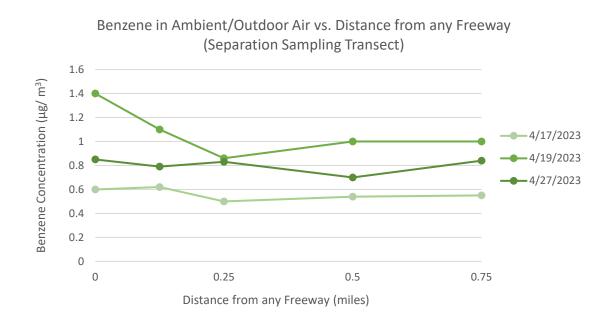
5.2 Lateral Variation Study

Benzene concentrations along the Prevailing Wind Transect were variable, ranging from 0.64 to 1.8 μ g/m³. This detection range is consistent with the benzene detection ranges reported in the Peak/Minimum Traffic Study, as well as the average benzene levels recorded across the greater Los Angeles Area. Average benzene concentrations recorded during the Lateral Variation Study were not significantly different than benzene concentrations recorded across the greater Los Angeles Area in 2018/2019 (p-value = 0.87). The highest benzene concentrations were recorded at the location immediately adjacent to the I-10 Freeway. Across the three sampling events, benzene concentrations generally decreased with distance from the freeway in the prevailing wind direction, as shown in the chart below. The orientation of the Prevailing Wind Transect is highlighted in pink in Figure 5.



Benzene concentrations along the Separation Sampling Transect were also variable, ranging from $0.50 \ \mu g/m^3$ to $1.4 \ \mu g/m^3$. On average, the highest benzene concentrations along the Separation Sampling Transect were recorded at the sample adjacent to the 710/10 Freeway interchange (zero-mile location). Benzene concentrations generally decreased with distance from the freeways, as shown in the chart below. The orientation of the Prevailing Wind Transect is highlighted in light blue in Figure 5.

The results of the lateral variation study indicate that proximity to the freeways is loosely correlated with higher concentrations of benzene in ambient/outdoor air. Benzene concentrations in ambient/outdoor air samples collected more than 0.125 miles away from any freeway were not significantly different than samples collected in the Community (p-value = 0.02). However, benzene concentrations in ambient/outdoor air samples collected adjacent to and within 0.125 miles of any freeway were significantly different (higher) than samples collected in the Community (p-value = 6.8×10^{-5}). Ambient/outdoor air samples collected in the former landfills did not exhibit elevated concentrations of benzene. On the basis of the data collected, the former landfills do not appear to be contributing to benzene in ambient/outdoor air.



5.3 Gasoline Service Station / Fueling Facilities Study

Benzene concentrations detected in the Fueling Facilities Study ranged from 0.61 μ g/m³ to 1.2 μ g/m³ and were generally consistent with those detected in the Peak/Minimum Traffic Study and Lateral Variation Study, as well as consistent with, or lower than, the average benzene levels in the greater Los Angeles Area.

The highest benzene detections were recorded at the Fueling Site A and Fueling Site B; both locations are adjacent to private gasoline service stations and are in close proximity to the I-10 Freeway (AA-UST-A; AA-UST-B). Benzene concentrations at Fueling Site A and Fueling Site B were not significantly different than concentrations adjacent to the freeways (p-value = 0.72). The lowest benzene concentration encountered during the fueling facilities study was detected within the Community sample (AA-CT-20230511). The benzene concentrations detected at Fueling Site C (AA-UST-C) and Fueling Site D (AA-UST-D) were not significantly different than the concentrations in the Community (p-value = 0.93).

The results of the fueling facilities study indicate that the nearby private gasoline service stations do not appear to be a measurable contributor to benzene concentrations in the Community ambient/outdoor air. Benzene concentrations in ambient/outdoor air at County fueling facilities (typically less utilized than the private gasoline service stations) were consistent with the benzene concentrations within the Community and also do not appear to be a measurable contributor to the benzene concentrations in the Community and also do not appear to be a measurable contributor to the benzene concentrations in the Community ambient/outdoor air.

5.4 Conclusions

Benzene concentrations across all three studies were generally consistent with, or lower than, average benzene concentrations in the greater Los Angeles area sourced primarily from vehicle exhaust. This consistency is indicative of widespread elevated benzene concentrations in the greater Los Angeles area that are not unique to the Community. Results from each phase of this study indicate that benzene concentrations are generally elevated nearest to freeways. Locations in close proximity to the freeway (within

500 feet) have modestly elevated benzene concentrations compared to the wider Los Angeles ambient/outdoor air, whereas fueling facilities do not appear to have any measurable impacts to the nearby community. Similarly, there was no indication that any of the benzene in the ambient/outdoor air originated from nearby gasoline service stations or the downwind former landfill properties.

Respectfully submitted,

ROUX ASSOCIATES, INC.

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Chris Rose, P.E. Principal Engineer

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



6. References

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- 1. Selected Volatile Organic Compounds (VOCs) Peak/Minimum Traffic Study
- 2. Selected Volatile Organic Compounds (VOCs) Lateral Variation Study
- 3. Selected Volatile Organic Compounds (VOCs) Fueling Facilities Study

Table 1 - Selected Volatile Organic Compounds (VOCs) Peak/Minimum Traffic Study City Terrace Neighborhood, Los Angeles County, California

Location	Peak or Minimum Traffic	Time Sampled	Date Sampled	Sample ID	Acetone	Benzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Difluoroethane	Ethylbenzene	Methylene chloride	Toluene	Trichlorofluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	p- & m-Xylenes	o-Xylene	Total Xylenes	Methane (CH4)
				Units							s per cubic n)					ppmv
				Analytical Method			0.001	400*	1 40 000*	1	Method TO		4 0 0 0	= 000t	4001	100*	1 4000	ASTM-D1946
				Note 3 SL, Unless Otherwise Noted	32,000^	0.097	0.26*	100*	42,000*	1.1*	1.0	310	1,300	5,200*	100*	100*	100*	50,000***
	Minimum Troffin	1:00am 1:00am	4/7/2023	AA-710-20230407-0058	11	1.4	<0.20	2.9	1.3 J	0.56	< 0.20	2.9	1.5	0.66	2.4	0.81	3.2	31
	Minimum Traffic	1:00am-4:00am	4/12/2023	AA-710-20230412-0105	9.8	0.33	<0.20	2.4	<5.0	0.17	<0.20	0.95	1.5	0.67	0.53	0.20	0.73	18
740 Adia sout			4/18/2023	AA-710-20230418-0104 AA-710-20230407-0700	3.4 15	0.58 1.6	<0.20 <0.20	2.1 2.9	0.52 J 1.3 J	0.15 0.80	<0.20 <0.20	1.6 3.9	1.3 1.4	0.59 0.64	0.59 3.3	0.19 1.1	0.78 4.4	23 19
710 Adjacent			4/7/2023							0.80			1.4		3.3		4.4	2.2
	Peak Traffic	7:00am-10:00am	4/40/0000	AA-710-20230407-0700-D	20	1.6	<0.20	2.9	1.6 J		<2.0	4.4		0.63		1.1		
			4/18/2023 4/26/2023	AA-710-20230418-0707	4.8 J	0.96	<0.20	2.2	<5.0 0.93 J	0.48	<0.2	3.2	1.3	0.60	1.8	0.65	2.4 1.6	2.1
			4/26/2023	AA-710-20230426-0700 AA-10-20230407-0108	7.8 29	1.8	<0.20 <0.20	1.4 3.2	0.93 J 1.8 J	0.35	<0.2 <0.20	1.6 5.3	1.4 1.5	0.61	1.1 4.4	0.44	5.9	3.8 2.3
	Minimum Traffic	1:00am-4:00am	4/12/2023	AA-10-20230407-0108 AA-10-20230412-0110	4.9	0.39	<0.20	2.5	<5.0	0.18	<0.20	5.3 1.0	1.5	0.60	4.4 0.58	1.4 0.22	0.80	2.3
		1.00am-4.00am	4/12/2023	AA-10-20230412-0110 AA-10-20230418-0105	4.9 5.9	0.39	<0.20	2.3	0.73 J	0.18	<0.20	1.6	1.3	0.60	0.58	0.22	0.80	1.8 J
10 Adjacent			4/7/2023	AA-10-20230407-0705	18	1.4	<0.20	3.3	3.6 J	0.63	<0.20	3.6	1.5	0.64	2.5	0.86	3.4	29
	Peak Traffic	7:00am-10:00am	4/18/2023	AA-10-20230418-0704	5.5 J	1.1	<0.20	2.1	0.55 J	0.62	<0.20	3.5	1.3	0.60	2.3	0.87	3.2	4.7
			4/26/2023	AA-10-20230426-0645	56	0.85	0.19 J	2.7	4.5 J	0.43	<0.20	1.9	1.4	0.60	1.5	0.61	2.1	50
			4/7/2023	AA-710/10-20230407-0110	13	1.4	<0.20	2.8	1.9 J	0.70	<0.20	3.5	1.4	0.63	2.8	0.90	3.7	6.0
	···	4.00	4/12/2023	AA-710/10-20230412-0100	9.3	0.39	<0.20	2.4	<5.0	0.19	<0.20	1.1	1.5	0.68	0.65	0.24	0.89	3.0
	Minimum Traffic	1:00am-4:00am	1/10/0000	AA-710/10-20230418-0057	4.3	0.58	<0.20	2.1	0.58 J	0.16	<0.20	1.5	1.3	0.60	0.64	0.21	0.86	4.3
710/10 Intersection			4/18/2023	AA-710/10-20230418-0057-D	5.6	0.47	<0.20	2.2	0.66 J	0.17	<0.20	1.5	1.3	0.60	0.68	0.21	0.89	67
			4/7/2023	AA-710/10-20230407-0651	15	1.9	<0.20	3.0	1.3 J	0.82	<0.20	4.0	1.6	0.64	3.3	1.1	4.4	2.3
	Peak Traffic	7:00am-10:00am	4/18/2023	AA-710/10-20230418-0656	4.9 J	1.2	<0.20	2.2	0.52 J	0.66	<0.20	3.3	1.3	0.59	2.5	0.95	3.4	6.1
			4/26/2023	AA-710/10-20230426-0705	9.1	1.2	<0.20	1.6	1.6 J	0.68	4.9	1.6	1.4	0.60	2.7	0.99	3.7	2.9
			4/7/2023	AA-CT-20230407-0100	15	0.86	<0.20	2.8	1.2 J	0.40	<2.0	2.0	1.5	0.66	1.6	0.54	2.1	5.2
	Minimum Traffic	1:00am-4:00am	4/12/2023	AA-CT-20230412-0055	5.5	0.36	<0.20	2.4	<5.0	0.20	<0.20	1.6	1.5	0.70	0.69	0.24	0.93	11
City Terrace			4/18/2023	AA-CT-20230418-0055	3.9	0.39	<0.20	2.1	0.66 J	0.14	<0.20	1.5	1.3	0.61	0.53	0.16	0.69	5.0
Neighborhood			4/7/2023	AA-CT-20230407-0655	19	1.2	<0.20	3.4	1.3 J	0.46	<0.20	2.9	1.5	0.63	1.7	0.60	2.3	5.2
	Peak Traffic	7:00am-10:00am	4/18/2023	AA-CT-20230418-0655	8.9 J	0.65	<0.20	2.1	1.0 J	0.41	8.3	2.8	1.3	0.64	1.6	0.55	2.1	21
			4/26/2023	AA-CT-20230426-0650	13	0.63	<0.20	1.4	1.7 J	0.35	<0.2	1.6	1.4	0.63	1.2	0.45	1.6	3.3

Notes:

Only analytes with one or more detections are included in this table.

ppmv = parts per million volume

USEPA = United States Environmental Protection Agency

DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022) SFBRWQCB ESLs for Indoor Air = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for Indoor Air (2019, Revision 2)

^ = Screening level references SFBRWQCB ESLs for Indoor air (2019, Revision 2) because USEPA Regional Screening Levels and DTSC HERO HHRA Note 3 Screening Levels not available for selected analyte.

* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

*** = 100% of the Lower Explosive Limit (LEL) for Methane

Italics indicate a duplicate sample

Yellow highlight indicates concentration exceeds SL

Concentrations detected above the method detection limit are in **bold**

<X = analyte not detected above the laboratory practical quantitation limit (X)

J = flag indicates detection is below the reporting limit/practical quantitation limit and is an estimated concentration



Table 2 - Selected Volatile Organic Compounds (VOCs) Lateral Variation Study City Terrace Neighborhood, Los Angeles County, California

Location	Date Sampled	Sample ID	Acetone	Benzene	Chloroform	Dichlorodifluoromethane	1,1-Difluoroethane	Ethylbenzene	Methylene chloride	Toluene	#Trichloroethene	Trichlorofluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	p- & m-Xylenes	o-Xylene	Total Xylenes	Methane (CH4)
		Units Analytical Method								ubic meter (od TO-15 SI							ppmv ASTM-D1946
			22.0004	0.097	0.12*	400*	40.000*		1	310	2.0**	4 200	E 200*	100*	400*	100*	
		3 SL, Unless Otherwise Noted	32,000^		-	100*	42,000*	1.1*	1.0		-	1,300	5,200*		100*		50,000***
Cogon Londfill Adiocont	4/17/2023	AA-CL-20230417	4.7 J	0.45	0.27	2.2	0.54 J	0.20	<0.2	1.7	<0.1	1.4	0.65	0.75	0.24	0.99	33
Cogen Landfill Adjacent	4/19/2023 4/27/2023	AA-CL-20230419 AA-CL-20230427	7.1 13	0.96 0.75	<0.1 <0.1	2.1 2.8	0.76 J 0.73 J	0.39 0.36	<0.2 0.77	1.9 2.0	3.4 <0.1	1.3 1.4	0.61 0.59	1.4 1.2	0.49 0.45	1.9 1.7	63 64
	4/27/2023	AA-CL-20230427 AA-BL-20230417	5.4	0.75	<0.1	2.0	0.73 J	0.30	<0.2	1.9	<0.1	1.4	0.65	1.1	0.43	1.4	1.9 J
Blanchard Landfill Adjacent	4/19/2023	AA-BL-20230417 AA-BL-20230419	8.5	0.30	<0.1	2.2	0.37 J	0.32	<0.2	1.9	0.93	1.4	0.65	1.6	0.52	2.1	<2.0
Bianchard Eandin Adjacent	4/13/2023	AA-BL-20230413	15	0.75	<0.1	3.2	0.78 J	0.40	<0.2	2.5	<0.1	1.3	0.59	1.4	0.50	1.9	2.2
	4/17/2023	AA-710/10-20230417	7.1	0.60	<0.1	2.1	0.56 J	0.40	<0.2	1.9	<0.1	1.4	0.65	1.4	0.38	1.4	5.3
	4/19/2023	AA-710/10-20230419	7.3	1.4	<0.1	2.0	0.78 J	0.65	<0.2	2.6	2.2	1.2	0.57	2.3	0.90	3.2	<2.0
710/10 Intersection		AA-710/10-20230427	10	0.85	<0.1	2.8	0.78 J	0.42	<0.2	2.0	< 0.1	1.4	0.61	1.5	0.53	2.0	2.2
	4/27/2023	AA-710/10-20230427-D	16	0.82	<0.1	3.2	0.71 J	0.40	<0.2	2.4	<0.1	1.4	0.59	1.4	0.52	1.9	2.1
	4/47/2022	AA-0.125MI-20230417	5.3	0.62	0.31	2.0	1.3 J	0.25	<0.2	1.8	<0.1	1.4	0.65	0.92	0.32	1.2	7.6
0.125 miles from freeways	4/17/2023	AA-0.125MI-20230417-D	4.9 J	0.56	< 0.1	2.4	0.70 J	0.26	<0.2	1.8	<0.1	1.4	0.65	0.97	0.32	1.3	2.1
and landfills	4/19/2023	AA-0.125MI-20230419	8.3	1.1	<0.1	2.1	1.1 J	0.59	<0.2	2.5	2.6	1.3	0.61	2.1	0.77	2.8	<2.0
	4/27/2023	AA-0.125MI-20230427	12	0.79	<0.1	2.9	0.84 J	0.37	<0.2	1.9	<0.1	1.3	0.58	1.3	0.47	1.8	28
0.25 miles from frequence and	1/17/2022	AA-0.25MI-20230417	11	0.50	<0.1	2.3	0.48 J	0.26	<0.2	1.8	<0.1	1.4	0.66	0.92	0.32	1.2	80
0.25 miles from freeways and landfills	4/19/2023	AA-0.25MI-20230419	8.0	0.86	<0.1	2.2	0.73 J	0.46	<0.2	1.8	2.7	1.3	0.61	1.7	0.58	2.2	<2.0
landillis	4/27/2023	AA-0.25MI-20230427	16	0.83	<0.1	3.2	0.83 J	0.50	<0.2	2.6	<0.1	1.4	0.59	1.8	0.66	2.5	3.9
0.5 miles from freeway and	4/17/2023	AA-0.5MI-20230417	5.2	0.54	<0.1	2.2	0.44 J	0.23	<0.2	1.9	<0.1	1.4	0.65	0.87	0.28	1.1	1.9 J
landfills	4/19/2023	AA-0.5MI-20230419	10	1.0	<0.1	2.1	1.0 J	0.52	<0.2	2.2	3.6	1.3	0.60	1.9	0.67	2.6	12
	4/27/2023	AA-0.5MI-20230427	10	0.70	<0.1	2.8	0.95 J	0.36	<0.2	1.8	<0.1	1.4	0.59	1.3	0.45	1.7	5.1
	4/17/2023	AA-0.75MI-20230417	8.2	0.55	<0.1	2.3	1.3 J	0.29	<0.2	2.2	<0.1	1.4	0.66	1.1	0.36	1.5	5.6
0.75 miles from freeways and	4/19/2023	AA-0.75MI-20230419	7.7	1.0	<0.1	2.1	1.1 J	0.54	<0.2	2.2	4.5	1.3	0.61	1.9	0.68	2.6	<2.0
landfills		AA-0.75MI-20230419-D	7.6	1.1	<0.1	2.1	1.3 J	0.51	<0.2	2.2	0.57	1.3	0.59	1.9	0.65	2.5	<2.0
	4/27/2023	AA-0.75MI-20230427	14	0.84	<0.1	2.8	0.96 J	0.45	<0.2	2.2	<0.1	1.4	0.60	1.6	0.57	2.1	4.2
	4/17/2023	AA-PW1-20230417	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Prevailing wind sample 1	4/19/2023	AA-PW1-20230419	14	1.4	<0.1	2.0	1.1 J	0.86	<0.2	2.9	4.3	1.2	0.58	3.0	1.2	4.1	2.1
	4/27/2023	AA-PW1-20230427	23	1.8	<0.2	4.4	2.1 J	1.0	<0.8	6.0	<0.4	2.4	1.0	3.3	1.3	4.6	6.4
Dreveiling wind served. C	4/17/2023	AA-PW2-20230417	7.4	0.85	<0.1	2.2	1.4 J	0.43	<0.2	2.6	<0.1	1.4	0.64	1.6	0.56	2.1	22
Prevailing wind sample 2	4/19/2023	AA-PW2-20230419	14	1.7	<0.1	2.0	1.2 J	0.88	<0.2	3.6	3.9	1.3	0.58	3.0	1.2	4.2	55
	4/27/2023	AA-PW2-20230427	12	0.91	<0.1	2.7	0.86 J	0.47	<0.2	2.4	<0.1	1.3	0.57	1.7	0.60	2.3	3.1
Drovoiling wind comple 0	4/17/2023 4/19/2023	AA-PW3-20230417	5.3	0.64	<0.1	2.2	0.61 J	0.33 0.54	<0.2	2.1	<0.1	1.4	0.66 0.58	1.2	0.37	1.6	40
Prevailing wind sample 3		AA-PW3-20230419	8.3 10	1.1 0.82	<0.1 <0.1	2.0 2.6	0.76 J 0.76 J	0.54	<0.2 <0.2	2.4 2.1	3.7 <0.1	1.3 1.3	0.58	1.9 1.5	0.69 0.54	2.6 2.1	<2.0 2.2
	4/27/2023	AA-PW3-20230427	10	0.82	<0.1	2.0	0.76 J	0.42	<0.2	2.1	<0.1	1.3	0.56	1.5	0.54	2.1	2.2

Notes:

Only analytes with one or more detections are included in this table.

ppmv = parts per million volume

USEPA = United States Environmental Protection Agency

DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 2022) SFBRWQCB ESLs for Indoor Air = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for Indoor Air (2019, Revision 2)

^ = Screening level references SFBRWQCB ESLs for Indoor air (2019, Revision 2) because USEPA Regional Screening Levels and DTSC HERO HHRA Note 3 Screening Levels not available for selected analyte.

* = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

** = Screening level references DTSC HERO HHRA Note 5 Screening Level for Residential Air for Trichloroethylene (August 2014)

*** = 100% of the Lower Explosive Limit (LEL) for Methane

Italics indicate a duplicate sample

Yellow highlight indicates concentration exceeds SL

Concentrations detected above the method detection limit are in **bold**

NA = not analyzed

<X = analyte not detected above the laboratory practical quantitation limit (X)

J = flag indicates detection is below the reporting limit/practical quantitation limit and is an estimated concentration

Sample AA-PW1-20230417 could not be collected due to SUMMA canister theft during deployment.

Table 3 - Selected Volatile Organic Compounds (VOCs) Fueling Facilities Study

Citv Terrace	Neighborhood,	Los Angeles	County.	California
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Location	Date Sampled	Sample ID	Acetone	Benzene	Dichlorodifluoromethane	1,1-Difluoroethane	Ethylbenzene	Toluene	Trichlorofluoromethane	1,1,2-Trichloro-1,2,2-trifluoroethane	p- & m-Xylenes	o-Xylene	Total Xylenes	Methane (CH4)
		Units	s micrograms per cubic meter (μg/m³)											ppmv
		Method	USEPA Method TO-15 SIM											ASTM-D1946
	DTSC HERO HHRA Note	3 SL, Unless Otherwise Noted	32,000^	0.097	100*	42,000*	1.1*	310	1,300	5,200*	100*	100*	100*	50,000***
UST/Fueling Site A - 1600 N Eastern	5/11/2023	AA-UST-A-20230511	3.5	1.2	2.9	0.98 J	0.57	2.4	1.4	0.61	2.4	0.81	3.2	2.9 J
UST/Fueling Site B - 1535 N Eastern	5/11/2023	AA-UST-B-20230511	4.4	1.2	2.9	1.9 J	0.71	2.9	1.4	0.61	3.2	1.1	4.3	3.3
UST/Fueling Site C - 1104 N Eastern	5/11/2023	AA-UST-C-20230511	5.4	0.61	2.9	0.47 J	0.35	1.7	1.4	0.62	1.4	0.50	1.9	3.0 J
-	5/11/2023	AA-UST-C-20230511-D	3.5	0.65	2.8	0.47 J	0.34	1.6	1.4	0.62	1.4	0.47	1.8	3.3
UST/Fueling Site D - 1108 Sheriff	5/11/2023	AA-UST-D-20230511	2.8	0.66	2.8	0.42 J	0.31	1.5	1.4	0.62	1.2	0.43	1.6	3.5
City Terrace Neighborhood Sample	5/11/2023	AA-CT-20230511	2.4	0.59	2.7	0.47 J	0.26	1.1	1.4	0.61	0.94	0.33	1.3	4.0

Notes:

Only analytes with one or more detections are included in this table.

UST = underground storage tank

ppmv = parts per million volume

USEPA = United States Environmental Protection Agency

DTSC HERO HHRA Note 3 SL for Residential Air = California Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Level (SL) for Residential Air (updated May 20: SFBRWQCB ESLs for Indoor Air = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels for Indoor Air (2019, Revision 2)

^ = Screening level references SFBRWQCB ESLs for Indoor air (2019, Revision 2) because USEPA Regional Screening Levels and DTSC HERO HHRA Note 3 Screening Levels not available for selected analyte. * = Screening level references USEPA Regional Screening Level for Residential Air THQ = 1.0 (May 2022) because DTSC HERO HHRA Note 3 SL not available for the selected analyte.

** = Screening level references DTSC HERO HHRA Note 5 Screening Level for Residential Air for Trichloroethylene (August 2014)

*** = 100% of the Lower Explosive Limit (LEL) for Methane

Italics indicate a duplicate sample

Yellow highlight indicates concentration exceeds SL

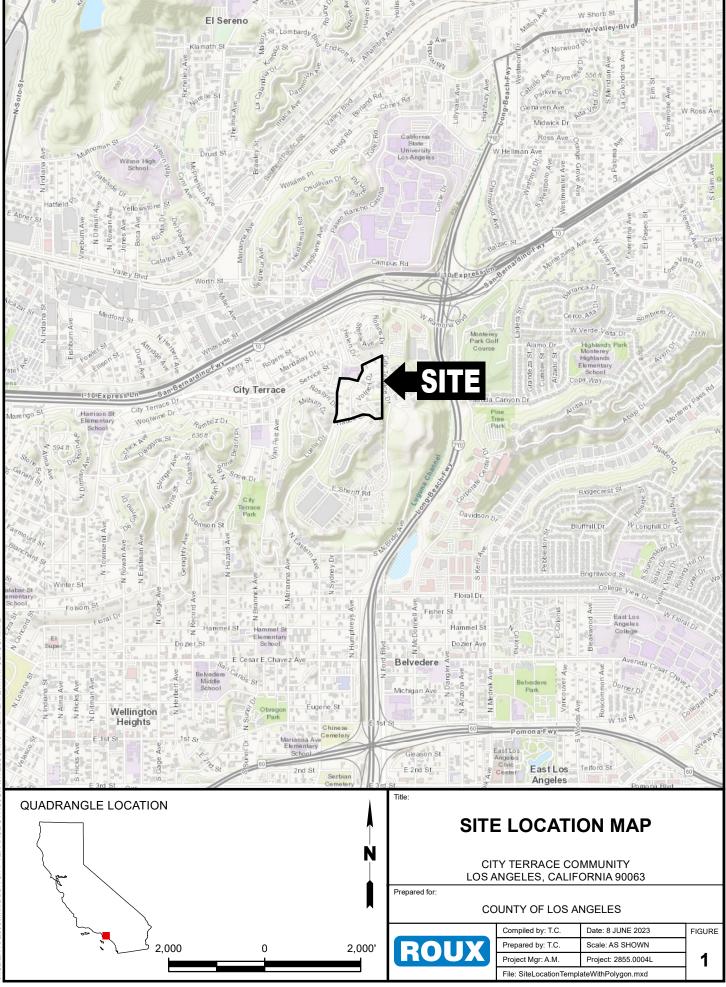
Concentrations detected above the method detection limit are in **bold**

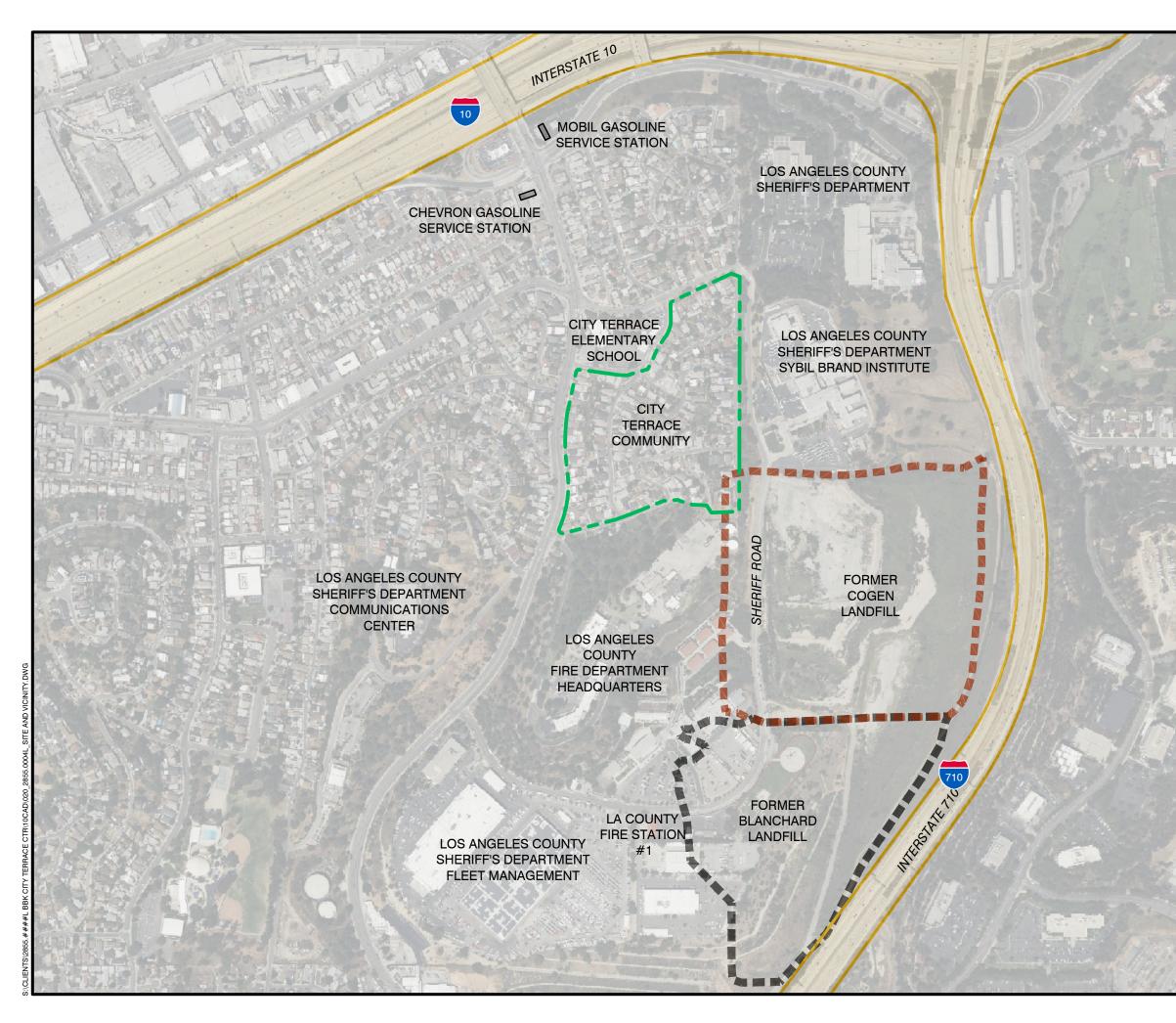
<X = analyte not detected above the laboratory practical quantitation limit (X)

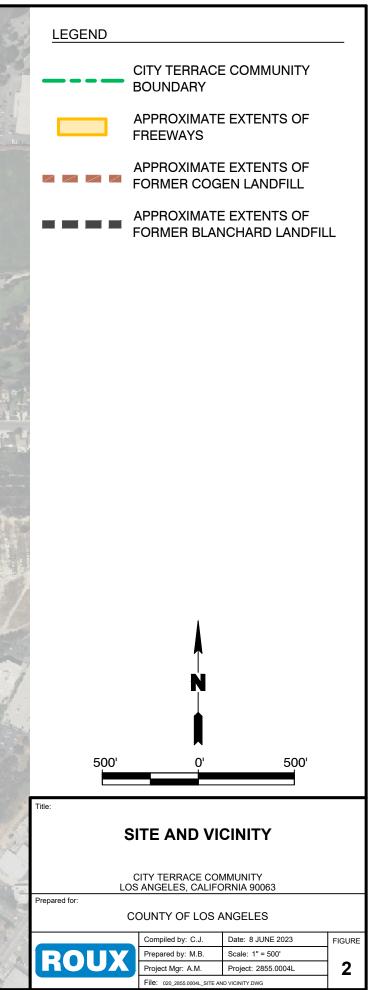
J = flag indicates detection is below the reporting limit/practical quantitation limit and is an estimated concentration

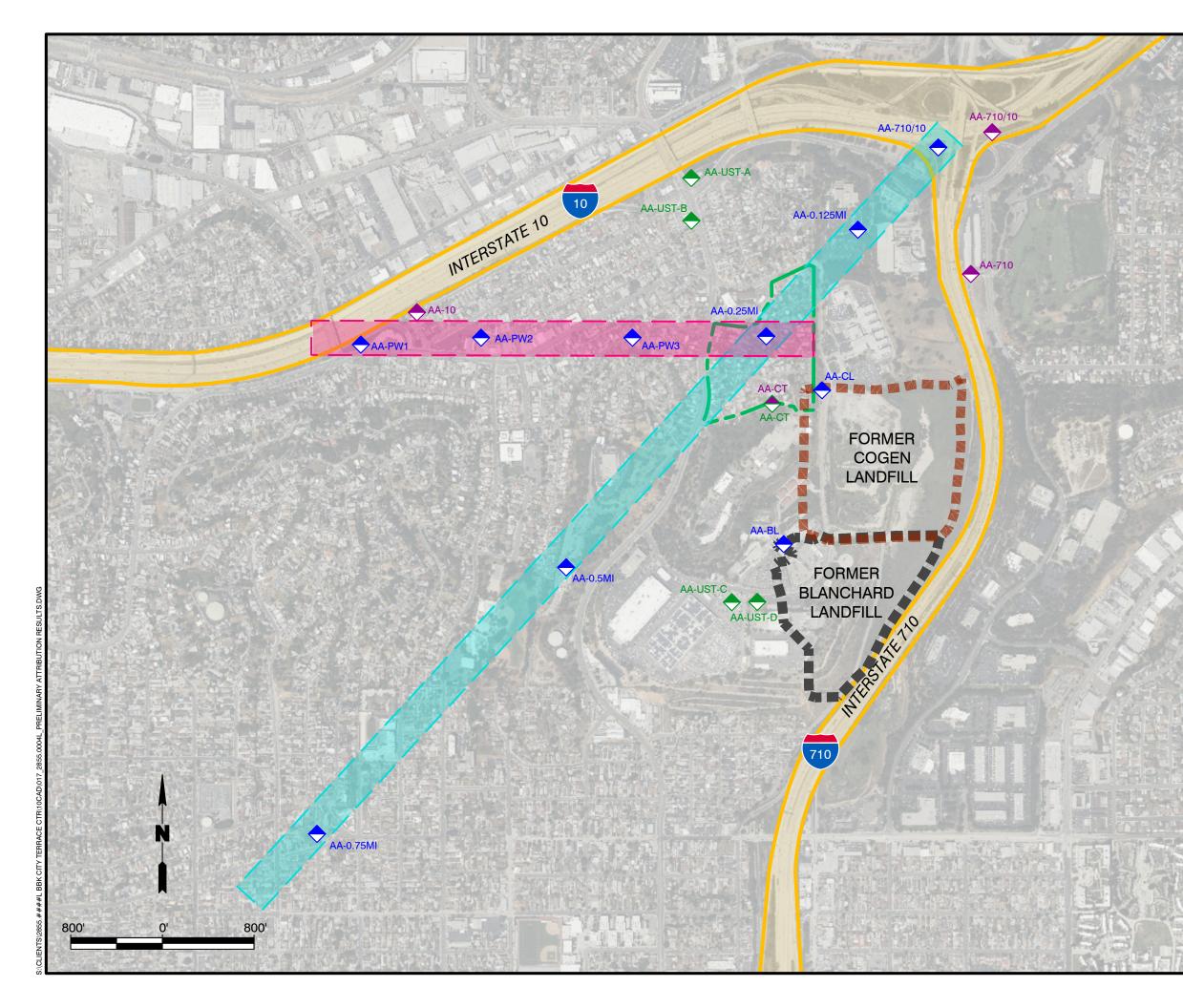


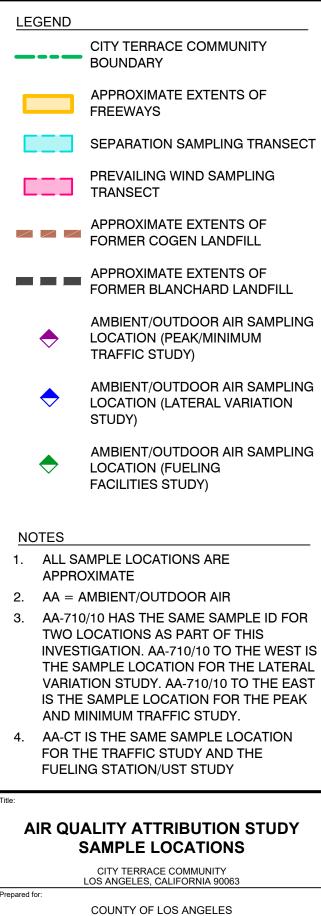
- 1. Site Location Map
- 2. Site and Vicinity
- 3. Air Quality Attribution Study Sample Locations
- 4. Peak/Minimum Traffic Study Benzene Concentrations
- 5. Lateral Variation Study Benzene Concentrations
- 6. Fueling Facilities Study Benzene Concentrations







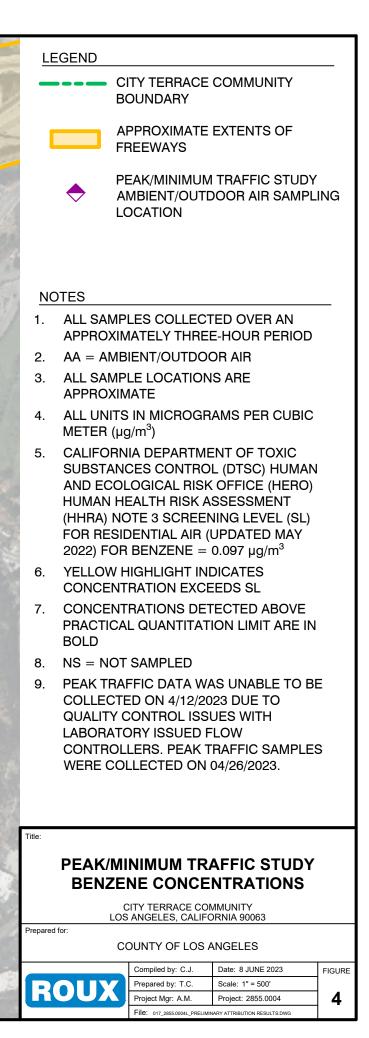




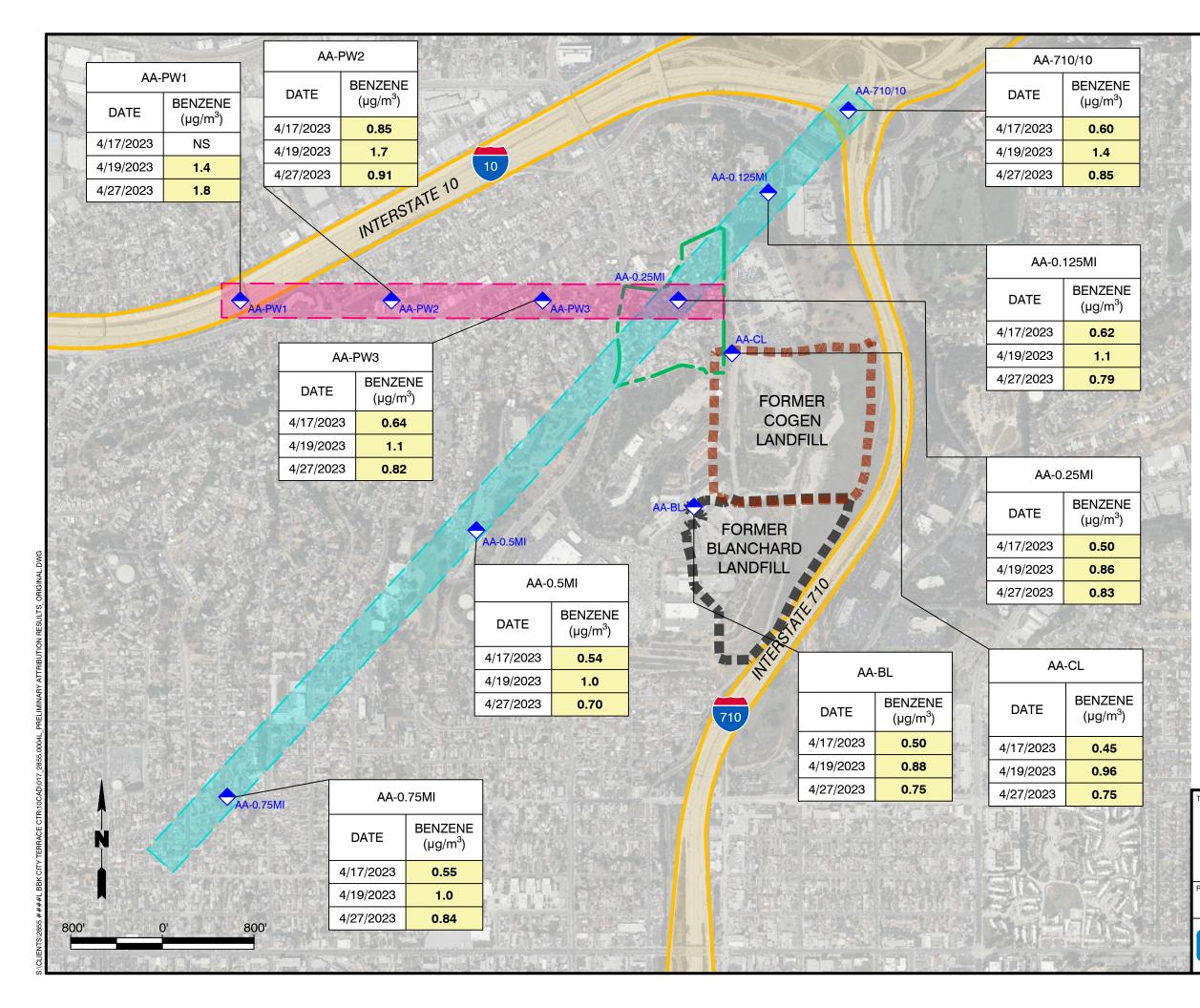


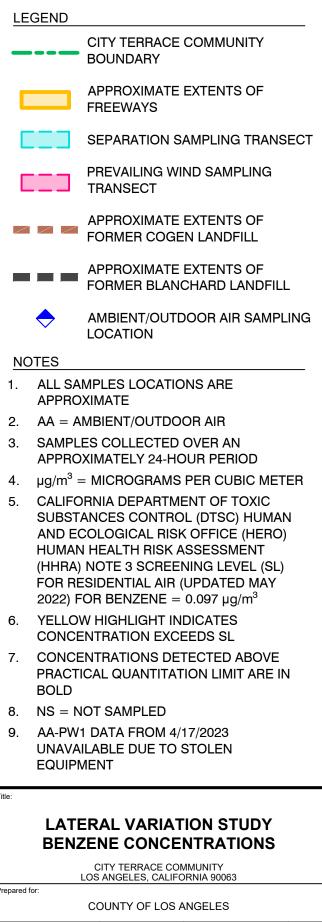
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AA-10	DATE 4/7/2023	TRAFFIC (μg/m ³) 1.8	TRAFFIC (µg/m ³)						DATE	MININ TRAF (µg/i	FIC TR	EAK AFFIC g/m ³)
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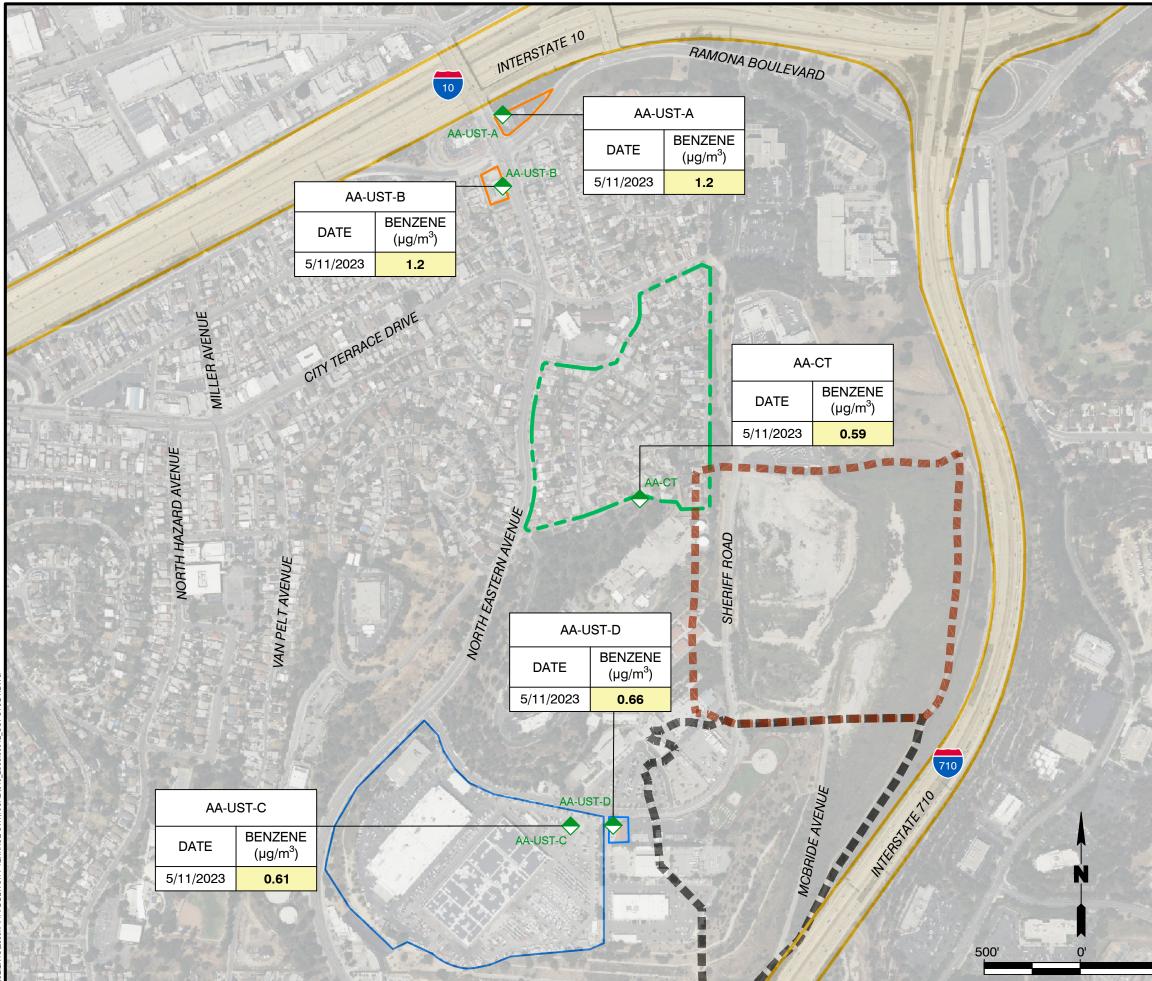
710/10



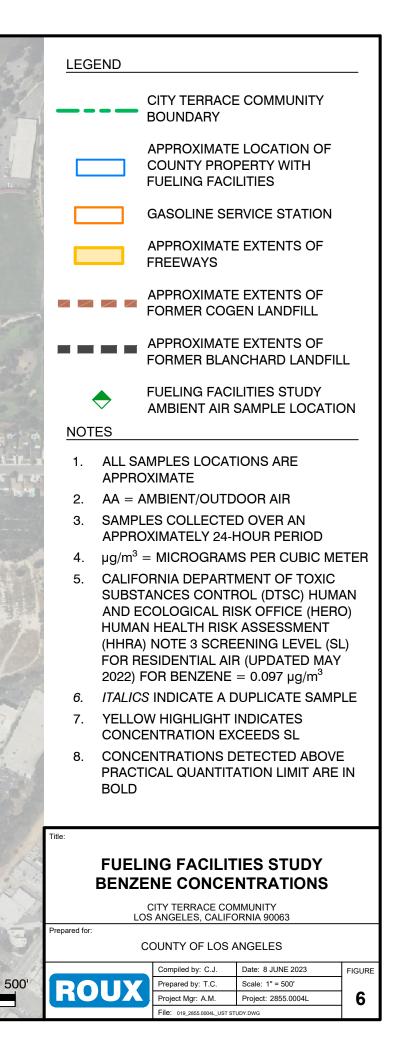


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- A. Analytical Laboratory Reports
- B. Student's t-Test Calculations

Air Quality Attribution Study Report City Terrace, East Los Angeles, California APPENDIX A

Analytical Laboratory Reports



Date of Report: 04/24/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

Client Project:2855BCL Project:City TerraceBCL Work Order:2307058Invoice ID:B474166

Enclosed are the results of analyses for samples received by the laboratory on 4/8/2023. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001417795

Sincerely,

Contact Person: Brianna Schutte Client Services Rep

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

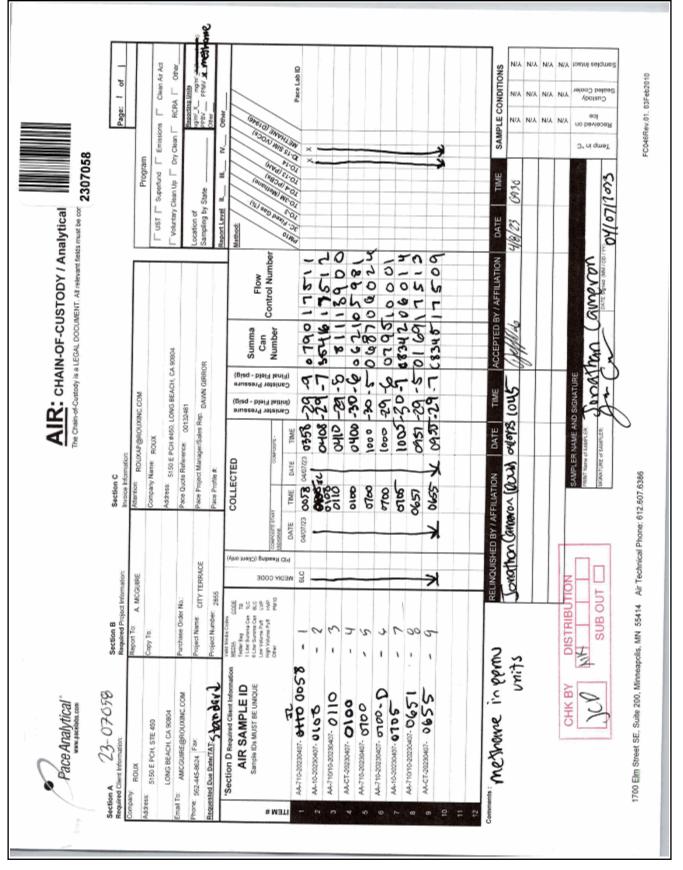


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Laboratory Control Sample	
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Chain of Custody and Cooler Receipt Form for 2307058 Page 1 of 2



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Chain of Custody and Cooler Receipt Form for 2307058 Page 2 of 2

Submission #: 23-0705	59	COOL	ER REC	EIPT FO	RM		Pa	ge_l	_Of_1	
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PA 548.1	-									
PA 549.2						_				
PA 8015h1						1		_		
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2307058-01	COC Number:		Receive Date:	04/08/2023 09:30
	Project Number:		Sampling Date:	04/07/2023 03:58
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230407-0058	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307058-02	COC Number:		Receive Date:	04/08/2023 09:30
	Project Number:		Sampling Date:	04/07/2023 04:08
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-10-20230407-0108	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307058-03	COC Number:		Receive Date:	04/08/2023 09:30
	Project Number:		Sampling Date:	04/07/2023 04:10
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230407-0110	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307058-04	COC Number:		Receive Date:	04/08/2023 09:30
	Project Number:		Sampling Date:	04/07/2023 04:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CT-20230407-0100	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307058-05	COC Number:		Receive Date:	04/08/2023 09:30
	Project Number:		Sampling Date:	04/07/2023 10:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230407-0700	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307058-06	COC Number:		Receive Date:	04/08/2023 09:30
	Project Number:		Sampling Date:	04/07/2023 10:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230407-0700-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307058-07	COC Number:		Receive Date:	04/08/2023 09:30
	Project Number:		Sampling Date:	04/07/2023 10:05
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-10-20230407-0705	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Laboratory / Client Sample Cross Reference

Laboratory Client Sample Inform	nation		
2307058-08 COC Number:		Receive Date:	04/08/2023 09:30
Project Number:		Sampling Date:	04/07/2023 09:51
Sampling Location:		Sample Depth:	
Sampling Point:	AA-710/10-20230407-0651	Lab Matrix:	Air
Sampled By:	Client	Sample Type:	Vapor or Air
2307058-09 COC Number:		Receive Date:	04/08/2023 09:30
Project Number:		Sampling Date:	04/07/2023 09:55
Sampling Location:		Sample Depth:	
Sampling Point:	AA-CT-20230407-0655	Lab Matrix:	Air
Sampled By:	Client	Sample Type:	Vapor or Air



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307058-0	01 Client Sample	e Name:	AA-710-2	A-710-20230407-0058, 4/7/2023 3:58:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
Acetone	11	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1		
Benzene	1.4	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2		
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2		
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2		
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2		
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2		
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2		
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2		
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2		
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2		
Dichlorodifluoromethane	2.9	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1		
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2		
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2		
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2		
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2		
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2		
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2		
Ethylbenzene	0.56	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2		
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2		
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2		
Foluene	2.9	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1		
I,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2		
Frichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2		
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2		
o- & m-Xylenes	2.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2		
o-Xylene	0.81	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
Fotal Xylenes	3.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2		
4-Bromofluorobenzene (Surrogate)	90.8	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1		
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2		

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Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	D: 2307058-01	Client San	nple Name:	AA-710-20230	0407-0058, 4/7/2	2023 3:58:00	0AM, Client	
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 03:12	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/10/23 21:50	BEP	MS-A1	1	B163730	EPA TO-15



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-01	Client Sampl	e Name:	AA-710-20	0230407-0	058, 4/7/2023	3:58:00AM, Clie	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		31	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run			QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method	
1	ASTM-D1946	04/10/23 08:04	04/10/23 17:01	RMK	GC-A1	1	B163715	No Prep	



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	07058-02 Cli	ent Sample	e Name:	AA-10-202	230407-010	08, 4/7/2023 4:08	:00AM, Clie	nt	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	•	29	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene		1.8	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane		3.2	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane		1.8	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene		1.0	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene		5.3	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane		1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes		4.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene		1.4	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes		5.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surro	gate)	93.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surro	gate)	105	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307058-02	Client San	nple Name:	AA-10-202304	407-0108, 4/7/20	07-0108, 4/7/2023 4:08:00AM, Client			
		-	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 03:42	BEP	MS-A1	10	B163730	EPA TO-15	
2	EPA-TO-15-SIM	04/10/23 13:17	04/10/23 22:26	BEP	MS-A1	1	B163730	EPA TO-15	



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-02	Client Sampl	e Name:	AA-10-202	230407-01	08, 4/7/2023	4:08:00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run			QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method	
1	ASTM-D1946	04/10/23 08:04	04/10/23 17:21	RMK	GC-A1	1	B163715	No Prep	



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	07058-03	Client Sampl	e Name:	AA-710/10	0-2023040	7-0110, 4/7/2023			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		13	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene		1.4	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
I,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane		2.8	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
I,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
I,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane		1.9	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene		0.70	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Fetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene		3.5	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Frichlorofluoromethane		1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
I,1,2-Trichloro-1,2,2-trifluoro	ethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes		2.8	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene		0.90	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes		3.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surro	gate)	89.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surro	gate)	103	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307058-03 Client Sample Name:				AA-710/10-20	230407-0110, 4	/7/2023 4:10	0:00AM, Clie	nt
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 04:13	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/10/23 23:03	BEP	MS-A1	1	B163730	EPA TO-15



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-03	Client Sample Name: AA-710/10-20230407-0110, 4/7/2023 4				4:10:00AM, Client			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		6.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/10/23 08:04	04/10/23 17:41	RMK	GC-A1	1	B163715	No Prep



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	307058-04	Client Sampl	e Name:	AA-CT-20	230407-01	00, 4/7/2023 4:0	0:00AM, Clie	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		15	ug/m3	10	0.075	EPA-TO-15-SIM	Bias ND	Quals A01	1
Benzene		0.86	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
I,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane		2.8	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
I,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
I,1-Difluoroethane		1.2	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene		0.40	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride		ND	ug/m3	2.0	0.077	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene		2.0	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane		1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
I,1,2-Trichloro-1,2,2-trifluor	oethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes		1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene		0.54	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes		2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surr	rogate)	90.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surr	ogate)	109	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307058-04 Client S			nple Name:	AA-CT-202304	407-0100, 4/7/20	023 4:00:00	AM, Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 04:43	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/10/23 23:39	BEP	MS-A1	1	B163730	EPA TO-15



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-04	Client Sampl	lient Sample Name: AA-CT-20230407-0100, 4/7/2023				4:00:00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		5.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method			
1	ASTM-D1946	04/10/23 08:04	04/10/23 18:02	RMK	GC-A1	1	B163715	No Prep			



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307058-	05 Client Sample	Name:	AA-710-2	0230407-0	ient			
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	15	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene	1.6	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.9	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.80	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	3.9	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	3.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	1.1	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes	4.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	92.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	111	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307058-05	AA-710-20230	0407-0700, 4/7/2	2023 10:00:0	0AM, Client			
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 05:13	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 00:16	BEP	MS-A1	1	B163730	EPA TO-15



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-05	Client Sampl	e Name:	AA-710-20	AA-710-20230407-0700, 4/7/2023 10:00:00AM, Client				
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		19	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/10/23 08:04	04/10/23 18:22	RMK	GC-A1	1	B163715	No Prep



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307	2058-06 Client Samp	ole Name:	AA-710-2	AA-710-20230407-0700-D, 4/7/2023 10:00:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	20	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene	1.6	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.9	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	1.6	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene	0.82	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	2.0	0.077	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene	4.4	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroet	hane 0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	3.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	1.1	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	4.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surroga	ate) 89.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surroga	ate) 112	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	BCL Sample ID: 2307058-06 Client Sample Name:			AA-710-2023	0407-0700-D, 4/	7/2023 10:00	0:00AM, Clie	nt
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 05:44	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 00:52	BEP	MS-A1	1	B163730	EPA TO-15



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-06	Client Sampl	ple Name: AA-710-20230407-0700-D, 4/7/2023 10:00:00AM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/10/23 08:04	04/10/23 18:42	RMK	GC-A1	1	B163715	No Prep



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307058-07	Client Sample	e Name:	AA-10-20	230407-07	ent			
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	18	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene	1.4	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	3.3	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	3.6	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene	0.63	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Fetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	3.6	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	2.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.86	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	3.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	90.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	108	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307058-07	Client San	nple Name:	AA-10-202304	407-0705, 4/7/20			
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 06:13	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 01:29	BEP	MS-A1	1	B163730	EPA TO-15



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-07	Client Sampl	e Name:	AA-10-20230407-0705, 4/7/2023 10:05:00AM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Methane (CH4)		29	ppmv	2.0	1.8	ASTM-D1946	ND		1	

			Run			QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method	
1	ASTM-D1946	04/10/23 08:04	04/10/23 19:42	RMK	GC-A1	1	B163715	No Prep	



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	07058-08	Client Sampl	e Name:	AA-710/10	AA-710/10-20230407-0651, 4/7/2023 9:51:00AM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB	Lab	DCN	
Acetone		15	ug/m3	10	0.075	EPA-TO-15-SIM	Bias ND	Quals A01	<u>DCN</u> 1	
Benzene		1.9	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane		3.0	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1	
1,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
trans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane		1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene		0.82	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene		4.0	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane		1.6	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.64	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
Vinyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes		3.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene		1.1	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Total Xylenes		4.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surro	gate)	93.6	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surro	gate)	109	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	L Sample ID: 2307058-08 Client Sample Name:				230407-0651, 4	/7/2023 9:5	1:00AM, Clie	nt
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 06:43	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 02:06	BEP	MS-A1	1	B163730	EPA TO-15



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-08	Client Sampl	t Sample Name: AA-710/10-20230407-0651, 4/7/2023				9:51:00AM, Client			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Methane (CH4)		2.3	ppmv	2.0	1.8	ASTM-D1946	ND		1	

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/10/23 08:04	04/10/23 20:03	RMK	GC-A1	1	B163715	No Prep

DCN = Data Continuation Number

Page 30 of 42



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307058-09	9 Client Sample	Client Sample Name:		230407-06	55, 4/7/2023 9:5	5:00AM, Clie	ent	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	19	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene	1.2	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	3.4	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.46	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	2.9	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.60	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes	2.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	91.1	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	105	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Report ID: 1001418032



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307058-09 Client Sample Name:			AA-CT-20230407-0655, 4/7/2023 9:55:00AM, Client					
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 07:14	BEP	MS-A1	10	B163730	EPA TO-15
2	EPA-TO-15-SIM	04/10/23 13:17	04/11/23 02:43	BEP	MS-A1	1	B163730	EPA TO-15



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307058-09	Client Sampl	e Name:	AA-CT-20230407-0655, 4/7/2023			9:55:00AM, Clier	nt	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		5.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

		Run						
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/10/23 08:04	04/10/23 20:23	RMK	GC-A1	1	B163715	No Prep



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B163730							
Acetone	B163730-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B163730-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B163730-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B163730-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B163730-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B163730-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B163730-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B163730-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B163730-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B163730-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B163730-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B163730-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B163730-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B163730-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B163730-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B163730-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B163730-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B163730-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B163730-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B163730-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B163730-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B163730-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B163730-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B163730-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B163730-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B163730-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B163730-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B163730-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B163730-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B163730-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B163730-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B163730-BLK1	82.5	%	50 - 15	0 (LCL - UCL)		1

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Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1
1	B163730-BLK1	PB	EPA-TO-15-SIM	04/10/23	04/10/23 20:14	BEP	MS-A1	1

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Report ID: 1001418032



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

							•				
								Control I	imits		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B163730											
Benzene	 B163730-BS1	LCS	0.27015	0.31948	ug/m3	84.6		70 - 130			1
	B163730-BSD1	LCSD	0.26513	0.31948	ug/m3	83.0	1.9	70 - 130	30		2
Benzyl chloride	B163730-BS1	LCS	0.42427	0.51772	ug/m3	82.0		70 - 130		J	1
	B163730-BSD1	LCSD	0.40211	0.51772	ug/m3	77.7	5.4	70 - 130	30	J	2
Carbon tetrachloride	B163730-BS1	LCS	0.53048	0.62913	ug/m3	84.3		70 - 130			1
Carbon tetrachionde	B163730-BSD1	LCS	0.53678	0.62913	ug/m3	85.3	1.2	70 - 130 70 - 130	30		2
Chlorobenzene	B163730-BS1		0.40161	0.46036		87.2		70 - 130			1
Chiorobenzene	B163730-BSD1	LCS LCSD	0.40101	0.46036	ug/m3 ug/m3	87.4	0.2	70 - 130 70 - 130	30		2
					-		0.2				
Chloroform	B163730-BS1 B163730-BSD1	LCS	0.42800 0.42595	0.48825 0.48825	ug/m3 ug/m3	87.7 87.2	0.5	70 - 130 70 - 130	30		1 2
		LCSD					0.5		50		
1,2-Dibromoethane	B163730-BS1	LCS	0.66193	0.76835	ug/m3	86.1	4.0	70 - 130	00		1
	B163730-BSD1	LCSD	0.67084	0.76835	ug/m3	87.3	1.3	70 - 130	30		2
1,2-Dichlorobenzene	B163730-BS1	LCS	0.55987	0.60124	ug/m3	93.1		70 - 130			1
	B163730-BSD1	LCSD	0.54273	0.60124	ug/m3	90.3	3.1	70 - 130	30		2
1,3-Dichlorobenzene	B163730-BS1	LCS	0.54556	0.60124	ug/m3	90.7		70 - 130			1
	B163730-BSD1	LCSD	0.52145	0.60124	ug/m3	86.7	4.5	70 - 130	30		2
1,4-Dichlorobenzene	B163730-BS1	LCS	0.55121	0.60124	ug/m3	91.7		70 - 130			1
	B163730-BSD1	LCSD	0.51394	0.60124	ug/m3	85.5	7.0	70 - 130	30		2
1,1-Dichloroethane	B163730-BS1	LCS	0.34711	0.40474	ug/m3	85.8		70 - 130			1
	B163730-BSD1	LCSD	0.34192	0.40474	ug/m3	84.5	1.5	70 - 130	30		2
1,2-Dichloroethane	B163730-BS1	LCS	0.33472	0.40474	ug/m3	82.7		70 - 130			1
	B163730-BSD1	LCSD	0.33209	0.40474	ug/m3	82.0	0.8	70 - 130	30		2
1,1-Dichloroethene	B163730-BS1	LCS	0.33932	0.39649	ug/m3	85.6		70 - 130			1
	B163730-BSD1	LCSD	0.34463	0.39649	ug/m3	86.9	1.6	70 - 130	30		2
cis-1,2-Dichloroethene	B163730-BS1	LCS	0.31474	0.39649	ug/m3	79.4		70 - 130			1
	B163730-BSD1	LCSD	0.31942	0.39649	ug/m3	80.6	1.5	70 - 130	30		2
Methylene chloride	B163730-BS1	LCS	0.29878	0.34737	ug/m3	86.0		70 - 130			1
	B163730-BSD1	LCSD	0.30527	0.34737	ug/m3	87.9	2.2	70 - 130	30		2
Tetrachloroethene	B163730-BS1	LCS	0.60276	0.67825	ug/m3	88.9		70 - 130			1
retractionoethene	B163730-BSD1	LCSD	0.59435	0.67825	ug/m3	87.6	1.4	70 - 130 70 - 130	30		2
Taluana											
Toluene	B163730-BS1 B163730-BSD1	LCS LCSD	0.30743 0.30717	0.37684 0.37684	ug/m3 ug/m3	81.6 81.5	0.1	70 - 130 70 - 130	30		1 2
					-		0.1		50		
1,1,1-Trichloroethane	B163730-BS1 B163730-BSD1	LCS	0.47753	0.54562	ug/m3	87.5 86 7	1.0	70 - 130 70 - 130	20		1
		LCSD	0.47289	0.54562	ug/m3	86.7	1.0		30		2
1,1,2-Trichloroethane	B163730-BS1	LCS	0.47174	0.54562	ug/m3	86.5		70 - 130			1
	B163730-BSD1	LCSD	0.46896	0.54562	ug/m3	86.0	0.6	70 - 130	30		2

Quality Control Report - Laboratory Control Sample

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Report ID: 1001418032



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

								Control I	_imits			
Constituent	QC Sample ID	Tuno	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #	
Constituent		Туре	Result	Level	Units	Recovery	KFD	Recovery	KFD	Quais	Kull#	
QC Batch ID: B163730												
Trichloroethene	B163730-BS1	LCS	0.45655	0.53737	ug/m3	85.0		70 - 130			1	
	B163730-BSD1	LCSD	0.46209	0.53737	ug/m3	86.0	1.2	70 - 130	30		2	
Vinyl chloride	B163730-BS1	LCS	0.21441	0.25562	ug/m3	83.9		70 - 130			1	
	B163730-BSD1	LCSD	0.21438	0.25562	ug/m3	83.9	0.0	70 - 130	30		2	
p- & m-Xylenes	B163730-BS1	LCS	0.69548	0.86843	ug/m3	80.1		70 - 130			1	
	B163730-BSD1	LCSD	0.69570	0.86843	ug/m3	80.1	0.0	70 - 130	30		2	
o-Xylene	B163730-BS1	LCS	0.35245	0.43421	ug/m3	81.2		70 - 130			1	
	B163730-BSD1	LCSD	0.35288	0.43421	ug/m3	81.3	0.1	70 - 130	30		2	
Total Xylenes	B163730-BS1	LCS	1.0479	1.3026	ug/m3	80.4		70 - 130			1	
	B163730-BSD1	LCSD	1.0486	1.3026	ug/m3	80.5	0.1	70 - 130	30		2	
4-Bromofluorobenzene (Surrogate)	B163730-BS1	LCS	3.63	3.58	ug/m3	101		50 - 150			1	
	B163730-BSD1	LCSD	3.52	3.58	ug/m3	98.2	3.2	50 - 150			2	

Quality Control Report - Laboratory Control Sample



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
1	B163730-BS1	LCS	EPA-TO-15-SIM	04/10/23	04/10/23 19:15	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1	

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Report ID: 1001418032



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1
2	B163730-BSD1	LCSD	EPA-TO-15-SIM	04/10/23	04/10/23 19:47	BEP	MS-A1	1



Reported: 04/24/2023 10:54 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent			QC Sample ID	MB Result	Units	PC	ΩL I	MDL	Lab Quals	Run #
QC Bat Methane (CH4	ch ID: B163715		B163715-BLK1	ND	ppmv	2	.0	1.8		1
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilutio	n	
1	B163715-BLK1	PB	ASTM-D1946	04/10/23	04/10/23 16:41	RMK	GC-A1	1		

Page 40 of 42



Reported:04/24/202310:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

						Control Limits					
QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery			Run #	
B163715-BS1	LCS	19508	18000	ppmv	108		70 - 130			1	
B163715-BSD1	LCSD	19422	18000	ppmv	108	0.4	70 - 130	30		2	
	B163715-BS1	B163715-BS1 LCS	B163715-BS1 LCS 19508	QC Sample ID Type Result Level B163715-BS1 LCS 19508 18000	QC Sample ID Type Result Level Units B163715-BS1 LCS 19508 18000 ppmv	QC Sample IDTypeResultLevelUnitsRecoveryB163715-BS1LCS1950818000ppmv108	QC Sample ID Type Result Level Units Recovery RPD B163715-BS1 LCS 19508 18000 ppmv 108	QC Sample IDTypeResultSpike LevelUnitsPercent RecoveryPercent RPDB163715-BS1LCS1950818000ppmv10870 - 130	QC Sample IDTypeResultSpike LevelPercent UnitsPercent RecoveryPercent RPDPercent RPDRPDB163715-BS1LCS1950818000ppmv10870 - 130	QC Sample IDTypeResultSpike LevelUnitsPercent RecoveryPercent RPDLab QualsB163715-BS1LCS1950818000ppmv10870 - 130Lab Lob	

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B163715-BS1	LCS	ASTM-D1946	04/10/23	04/10/23 16:00	RMK	GC-A1	1
2	B163715-BSD1	LCSD	ASTM-D1946	04/10/23	04/10/23 16:21	RMK	GC-A1	1



Reported:04/24/2023 10:54Project:City TerraceProject Number:2855Project Manager:April McGuire

Notes And Definitions

J Estimated Value	(CLP Flag)
-------------------	------------

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 05/02/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

Client Project:2855BCL Project:City TerraceBCL Work Order:2307358Invoice ID:B474860

Enclosed are the results of analyses for samples received by the laboratory on 4/13/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte Client Services Rep

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

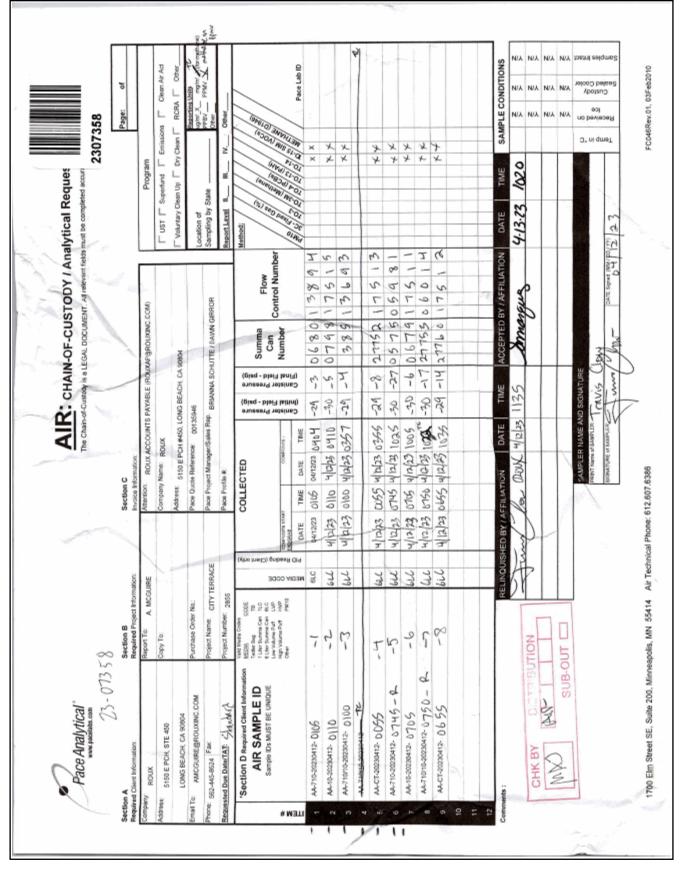


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Chain of Custody and Cooler Receipt Form for 2307358 Page 1 of 4





Chain of Custody and Cooler Receipt Form for 2307358 Page 2 of 4

PACE ANALYTICAL Submission #:23-0735	ORMA	TION	OOLEF				10 00		ige <u>(</u>	_Of_			
Fed Ex Z UPS GSO	/ GLS (Other []	э н	and Deli	very D	- Ico	SHIPPING CONTAINER FREE LIQUID Ice Chest □ None □ Box ≠ Other □ (Specify) W / S							
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Custody Seals Ice Chest	Intac	ontair 17 Yes	ters⊡ ⊡No⊡	Non	e en ca	omments:							
All samples received? Yes No O	All s	amples	s containd	ers Intact	7 Yes	No 🗆	D	escription(e) mateh	0000			
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and VOA VIAL TRAVEL BLANK				-									
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11602/3202 AMBER	_						-						
1/1602/3203 JAR IL SLEEVE	_								-				
BVIAL	-	-+							_				
ASTIC BÁG	+	-+	_										
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Chain of Custody and Cooler Receipt Form for 2307358 Page 3 of 4

Submission #: 23~ 07358			RECEIP	Ortan			Page		if 3	
SHIPPING INFO Fed Ex SU UPS D GSO / O Pace Lab Field Service D Ot	RMATION GLS II H her II (Spe	and Deli	ivary 🗆	SHIPPING CONTAINER FREE LIQ lce Chest I None Box & YES No Other I (Specify) W / S						NO A
Refrigerant: Ice 🗆 Blue Ice I	None	N C	ther 🖸	Commer	ter					
Custody Seals Ice Chest	Contair	ners 🗆	**	Com	_					
All samples received? Yes No D	All samples	s contain	ers Intert?	Van X Ma						
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Chain of Custody and Cooler Receipt Form for 2307358 Page 4 of 4

PACE ANALYTICAL Submission #: 23-0735	8	C	OOLER	RECEIP	T FORM			Pag	eO	f_3	
SHIPPING INI Fed Ex N UPS GO Pace Lab Field Service G	/ GLS	AATION D Ha	and Delly	ery 13	lce Ch	est 🗆	G CONT None D pecify)	Box		YES C	LIQUID NO AL
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Custody Seals Ice Chest		Contain	ers 🗇	_	S. Com						
All samples received? Yes No D	All	samples	container	s Intact?	A An						
COC Received	Emis	sivity:	- c	ontainers	Atanta	Charmon	Desc	ription(s)		? Yes	
NYES INO	Tem	perature:	(A) R	am	_°C /	(<u>c</u>)	tem	2.0	Date	rime <u>4-</u> /st init 5/2	13.23 UH 1020
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PT NITROGEN FORMS	-1										
PT TOTAL SULFIDE							+	- <u> </u>			
2 or. NITRATE / NITRITE	-1										
PT TOTAL ORGANIC CARBON	-										
PT CHEMICAL OXYGEN DEMAND			_					+		_	
PIA PHENOLICS			_				+				
40ml VOA VIAL TRAVEL BLANK							<u> </u>	+			
ADRI VOA VIAL											
QT EPA 1664B											+
TDDOR									+		
RADIOLOGICAL											+!
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10 mLVOA VIAL-504	_									<u> </u>	┼──╢
2T EPA 508/608.3/8081A	-							1		+	+
2T EPA 515.1/8151A	_				_					1	<u>+</u> [
0T EPA 525.2	_										
IT EPA 525.2 TRAVEL BLANK											
0ml EPA 531.1	_										
az EPA 548.1								_			
T EPA 549,2											
T EPA 8015M	+										
T EPA 8270C											
rt/16mr/32or AMBER	-				+						
g/16ex/32oz JAR	+										
ML SLEEVE	+										
BVIAL :	1-	-+									
ASTIC BAG											
DLAR BAG								_			
RROUS IRON	1										
CORE											
ART KIT	1			-							
MMA CANISTER GL	Í				A			0			
nments:								A	R		
Actual / C = Corrected	~			Date/Tin	ie:_4-	13-2		DA_ SAMPCerMa	dPerfectil.All_DC	Rev 23 0	5/20/22 EC/me 200



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2307358-01	COC Number:		Receive Date:	04/13/2023 10:20
	Project Number:		Sampling Date:	04/12/2023 04:04
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230412-0105	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
222222 00				
2307358-02	COC Number:		Receive Date:	04/13/2023 10:20
	Project Number:		Sampling Date:	04/12/2023 04:10
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-10-20230412-0110	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2307358-03	COC Number:		Receive Date:	04/13/2023 10:20
	Project Number:		Sampling Date:	04/12/2023 03:57
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230412-0100	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2307358-04	COC Number:		Receive Date:	04/13/2023 10:20
2007.000 01				04/12/2023 03:55
	Project Number:		Sampling Date:	
	Sampling Location:		Sample Depth:	 A in
	Sampling Point:	AA-CT-20230412-0055	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2307358-05	COC Number:		Receive Date:	04/13/2023 10:20
	Project Number:		Sampling Date:	04/12/2023 10:25
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230412-0745-R	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2307358-06	COC Number:		Receive Date:	04/13/2023 10:20
	Project Number:		Sampling Date:	04/12/2023 10:05
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-10-20230412-0705	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air
2307358-07			Desister Det	04/40/0000 40.00
230/330-0/	COC Number:		Receive Date:	04/13/2023 10:20
	Project Number:		Sampling Date:	04/12/2023 10:32
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230412-0750-R	Lab Matrix:	Air
	Sampled By:	Travis Clow	Sample Type:	Vapor or Air

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Reported: 05/02/2023 8:27 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Client Sample Informati	on		
COC Number:		Receive Date:	04/13/2023 10:20
Project Number:		Sampling Date:	04/12/2023 10:35
Sampling Location:		Sample Depth:	
Sampling Point: Sampled By:	AA-CT-20230412-0655 Travis Clow	Lab Matrix: Sample Type:	Air Vapor or Air
	COC Number: Project Number: Sampling Location: Sampling Point:	Project Number: Sampling Location: Sampling Point: AA-CT-20230412-0655	COC Number: Receive Date: Project Number: Sampling Date: Sampling Location: Sample Depth: Sampling Point: AA-CT-20230412-0655 Lab Matrix:



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307358-01	Client Sampl	e Name:	AA-710-2	0230412-0	105, 4/12/2023 4	:04:00AM, T	ravis Clow	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	9.8	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND	Quais	1
Benzene	0.33	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
sis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
I,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Nethylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
etrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
oluene	0.95	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
richloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Frichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.67	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
o- & m-Xylenes	0.53	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.20	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Fotal Xylenes	0.73	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1

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Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307358-01	Client San	ple Name:	AA-710-20230	s Clow			
		Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/18/23 13:28	04/19/23 01:50	BEP	MS-A2	1	B164390	EPA TO-15

DCN = Data Continuation Number



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307358-01	Client Sampl	e Name:	AA-710-20	0230412-0	105, 4/12/2023	4:04:00AM, Tr	avis Clow	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		18	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:47	05/01/23 14:29	RMK	GC-A1	1	B165213	No Prep

DCN = Data Continuation Number



Reported: 05/02/2023 8:27 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23073	58-02 Client Samp	le Name:	AA-10-20	230412-01	10, 4/12/2023 4:1	0:00AM, Tra	ivis Clow	Clow		
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
Acetone	4.9	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		1		
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1		
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1		
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1		
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1		
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1		
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1		
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1		
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1		
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1		
Dichlorodifluoromethane	2.5	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1		
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1		
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1		
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1		
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1		
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1		
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1		
I,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1		
Ethylbenzene	0.18	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1		
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1		
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1		
Toluene	1.0	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1		
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1		
,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1		
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1		
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1		
1,1,2-Trichloro-1,2,2-trifluoroetha	ane 0.69	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1		
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1		
o- & m-Xylenes	0.58	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1		
o-Xylene	0.22	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1		
Fotal Xylenes	0.80	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1		
4-Bromofluorobenzene (Surrogate	e) 98.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1		

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Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307358-02	Client San	nple Name:	AA-10-202304	12-0110, 4/12/2	Clow		
Run							QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/18/23 13:28	04/19/23 02:33	BEP	MS-A2	1	B164390	EPA TO-15

DCN = Data Continuation Number



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307358-02	Client Sampl	e Name:	AA-10-202	AA-10-20230412-0110, 4/12/2023		4:10:00AM, Tra	vis Clow	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:47	05/01/23 14:49	RMK	GC-A1	1	B165213	No Prep

DCN = Data Continuation Number



Reported: 05/02/2023 8:27 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23073	58-03 Client Samp	le Name:	AA-710/1	0-20230412	2-0100, 4/12/2023	3:57:00AN	I, Travis Clow	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	9.3	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND	Quais	1
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
l,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
sis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
I,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.19	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Nethylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
etrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
oluene	1.1	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Frichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Frichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroeth	ane 0.68	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
o- & m-Xylenes	0.65	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.24	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Fotal Xylenes	0.89	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate	e) 101	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1

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Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2307358-03	Client San	nple Name:	AA-710/10-20	230412-0100, 4	0412-0100, 4/12/2023 3:57:00AM, Travis Clow			
			Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/18/23 13:28	04/19/23 03:16	BEP	MS-A2	1	B164390	EPA TO-15	

DCN = Data Continuation Number



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307358-03	Client Sampl	e Name:	AA-710/10	0-2023041	2-0100, 4/12/2023	3:57:00AM	, Travis Clow	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:47	05/01/23 15:09	RMK	GC-A1	1	B165213	No Prep

DCN = Data Continuation Number



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307358-0	04 Client Sampl	e Name:	AA-CT-20	230412-00	55, 4/12/2023 3::	55:00AM, Tra	avis Clow	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	5.5	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND	Quais	1
Benzene	0.36	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
is-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
I,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		1
Ethylbenzene	0.20	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Nethylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
etrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
oluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
richloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Frichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
,1,2-Trichloro-1,2,2-trifluoroethane	0.70	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
o- & m-Xylenes	0.69	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.24	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.93	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1

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Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307358-04	Client San	ient Sample Name: AA-CT-20230412-0055, 4/12/2023 3:55:00AM, Travis Clow					
	QC							
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/18/23 13:28	04/19/23 04:01	BEP	MS-A2	1	B164390	EPA TO-15

DCN = Data Continuation Number



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307358-04	Client Sampl	e Name:	AA-CT-20230412-0055, 4/12/2023			3:55:00AM, Tra	avis Clow	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		11	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:47	05/01/23 15:30	RMK	GC-A1	1	B165213	No Prep

DCN = Data Continuation Number



Reported: 05/02/2023 8:27 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307358	3-06 Client Sample	e Name:	AA-10-20	230412-07	05, 4/12/2023 10:	05:00AM, Tr	avis Clow	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab	DCN
Acetone	6.1	ug/m3	10	0.075	EPA-TO-15-SIM	Bias ND	Quals J,A01	1
Benzene	0.73	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		2
Ethylbenzene	0.54	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	2.2	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.5	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	e 0.69	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	2.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.79	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	3.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	89.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307358-06		Client San	nple Name:	AA-10-202304	0-20230412-0705, 4/12/2023 10:05:00AM, Travis Clow				
			Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/18/23 13:28	04/20/23 21:13	BEP	MS-A2	10	B164390	EPA TO-15	
2	EPA-TO-15-SIM	04/18/23 13:28	04/19/23 04:45	BEP	MS-A2	1	B164390	EPA TO-15	

DCN = Data Continuation Number



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307358-06	Client Sampl	e Name:	AA-10-20230412-0705, 4/12/2023			0:05:00AM, Tra	avis Clow	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		32	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:47	05/01/23 15:50	RMK	GC-A1	1	B165213	No Prep

DCN = Data Continuation Number



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B164390							
Acetone	B164390-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B164390-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B164390-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B164390-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B164390-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B164390-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B164390-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B164390-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B164390-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B164390-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B164390-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B164390-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B164390-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B164390-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B164390-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B164390-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B164390-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B164390-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B164390-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B164390-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B164390-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B164390-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B164390-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B164390-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B164390-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B164390-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B164390-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B164390-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B164390-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B164390-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B164390-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B164390-BLK1	67.6	%	50 - 15	0 (LCL - UCL)		1

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Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

		Run									
F	Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution		
	1	B164390-BLK1	PB	EPA-TO-15-SIM	04/18/23	04/18/23 22:35	BEP	MS-A2	1		



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

	. ,		•				•					
								Control Limits				
				Spike		Percent		Percent		Lab		
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #	
QC Batch ID: B164390												
Benzene	 B164390-BS1	LCS	0.29318	0.31948	ug/m3	91.8		70 - 130			1	
	B164390-BSD1	LCSD	0.29146	0.31948	ug/m3	91.2	0.6	70 - 130	30		2	
Benzyl chloride	B164390-BS1	LCS	0.57679	0.51772	ug/m3	111		70 - 130			1	
	B164390-BSD1	LCSD	0.57483	0.51772	ug/m3	111	0.3	70 - 130	30		2	
Carbon tetrachloride	B164390-BS1	LCS	0.63593	0.62913	ug/m3	101		70 - 130			1	
	B164390-BSD1	LCSD	0.63951	0.62913	ug/m3	102	0.6	70 - 130	30		2	
Chlorobenzene	B164390-BS1	LCS	0.48121	0.46036	ug/m3	105		70 - 130			1	
	B164390-BSD1	LCSD	0.48637	0.46036	ug/m3	106	1.1	70 - 130	30		2	
Chloroform	B164390-BS1	LCS	0.49758	0.48825	ug/m3	102		70 - 130			1	
	B164390-BSD1	LCSD	0.49455	0.48825	ug/m3	101	0.6	70 - 130	30		2	
1,2-Dibromoethane	B164390-BS1	LCS	0.81745	0.76835	ug/m3	106		70 - 130			1	
	B164390-BSD1	LCSD	0.82321	0.76835	ug/m3	107	0.7	70 - 130	30		2	
1,2-Dichlorobenzene	B164390-BS1	LCS	0.57346	0.60124	ug/m3	95.4		70 - 130			1	
	B164390-BSD1	LCSD	0.56107	0.60124	ug/m3	93.3	2.2	70 - 130	30		2	
1,3-Dichlorobenzene	B164390-BS1	LCS	0.59372	0.60124	ug/m3	98.7		70 - 130			1	
	B164390-BSD1	LCSD	0.56841	0.60124	ug/m3	94.5	4.4	70 - 130	30		2	
1,4-Dichlorobenzene	B164390-BS1	LCS	0.55145	0.60124	ug/m3	91.7		70 - 130			1	
	B164390-BSD1	LCSD	0.57033	0.60124	ug/m3	94.9	3.4	70 - 130	30		2	
1,1-Dichloroethane	B164390-BS1	LCS	0.40725	0.40474	ug/m3	101		70 - 130			1	
	B164390-BSD1	LCSD	0.40442	0.40474	ug/m3	99.9	0.7	70 - 130	30		2	
1,2-Dichloroethane	B164390-BS1	LCS	0.39863	0.40474	ug/m3	98.5		70 - 130			1	
	B164390-BSD1	LCSD	0.40138	0.40474	ug/m3	99.2	0.7	70 - 130	30		2	
1,1-Dichloroethene	B164390-BS1	LCS	0.37433	0.39649	ug/m3	94.4		70 - 130			1	
	B164390-BSD1	LCSD	0.36672	0.39649	ug/m3	92.5	2.1	70 - 130	30		2	
cis-1,2-Dichloroethene	B164390-BS1	LCS	0.37346	0.39649	ug/m3	94.2		70 - 130			1	
	B164390-BSD1	LCSD	0.36727	0.39649	ug/m3	92.6	1.7	70 - 130	30		2	
Methylene chloride	B164390-BS1	LCS	0.36151	0.34737	ug/m3	104		70 - 130			1	
	B164390-BSD1	LCSD	0.35964	0.34737	ug/m3	104	0.5	70 - 130	30		2	
Tetrachloroethene	B164390-BS1	LCS	0.71312	0.67825	ug/m3	105		70 - 130			1	
	B164390-BSD1	LCSD	0.72254	0.67825	ug/m3	107	1.3	70 - 130	30		2	
Toluene	B164390-BS1	LCS	0.36369	0.37684	ug/m3	96.5		70 - 130			1	
	B164390-BSD1	LCSD	0.35992	0.37684	ug/m3	95.5	1.0	70 - 130	30		2	
1,1,1-Trichloroethane	B164390-BS1	LCS	0.54955	0.54562	ug/m3	101		70 - 130			1	
	B164390-BSD1	LCSD	0.55009	0.54562	ug/m3	101	0.1	70 - 130	30		2	
1,1,2-Trichloroethane	B164390-BS1	LCS	0.59702	0.54562	ug/m3	109		70 - 130			1	
	B164390-BSD1	LCSD	0.59904	0.54562	ug/m3	110	0.3	70 - 130	30		2	

Quality Control Report - Laboratory Control Sample

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Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

						Control Limits							
				Spike		Percent		Percent		Lab			
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #		
QC Batch ID: B164390													
Trichloroethene	B164390-BS1	LCS	0.55822	0.53737	ug/m3	104		70 - 130			1		
	B164390-BSD1	LCSD	0.55543	0.53737	ug/m3	103	0.5	70 - 130	30		2		
Vinyl chloride	B164390-BS1	LCS	0.23775	0.25562	ug/m3	93.0		70 - 130			1		
	B164390-BSD1	LCSD	0.24516	0.25562	ug/m3	95.9	3.1	70 - 130	30		2		
p- & m-Xylenes	B164390-BS1	LCS	0.77338	0.86843	ug/m3	89.1		70 - 130			1		
	B164390-BSD1	LCSD	0.75149	0.86843	ug/m3	86.5	2.9	70 - 130	30		2		
o-Xylene	B164390-BS1	LCS	0.39270	0.43421	ug/m3	90.4		70 - 130			1		
	B164390-BSD1	LCSD	0.38575	0.43421	ug/m3	88.8	1.8	70 - 130	30		2		
Total Xylenes	B164390-BS1	LCS	1.1661	1.3026	ug/m3	89.5		70 - 130			1		
	B164390-BSD1	LCSD	1.1372	1.3026	ug/m3	87.3	2.5	70 - 130	30		2		
4-Bromofluorobenzene (Surrogate)	B164390-BS1	LCS	3.80	3.58	ug/m3	106		50 - 150			1		
	B164390-BSD1	LCSD	3.69	3.58	ug/m3	103	3.0	50 - 150			2		

Quality Control Report - Laboratory Control Sample

	Run								
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B164390-BS1	LCS	EPA-TO-15-SIM	04/18/23	04/18/23 21:21	BEP	MS-A2	1	
2	B164390-BSD1	LCSD	EPA-TO-15-SIM	04/18/23	04/18/23 22:00	BEP	MS-A2	1	



Reported:05/02/20238:27Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent			QC Sample ID	MB Result	Units	PQL		MDL	Lab Quals	Run #
QC Bat Methane (CH4	ch ID: B165213		B165213-BLK1	ND	ppmv	2	.0	1.8		1
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilutio	n	
1	B165213-BLK1	PB	ASTM-D1946	05/01/23	05/01/23 14:08	RMK	GC-A1	1		



Reported: 05/02/2023 8:27 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

								Control I	imits		
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B165213											
Methane (CH4)	B165213-BS1	LCS	20026	18000	ppmv	111		70 - 130			1
	B165213-BSD1	LCSD	19976	18000	ppmv	111	0.3	70 - 130	30		2

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B165213-BS1	LCS	ASTM-D1946	05/01/23	05/01/23 13:28	RMK	GC-A1	1
2	B165213-BSD1	LCSD	ASTM-D1946	05/01/23	05/01/23 13:48	RMK	GC-A1	1



Reported: 05/02/2023 8:27 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Notes And Definitions

J Estimated Value	(CLP Flag)
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- MDL Method Detection Limit
- ND Analyte Not Detected
- Practical Quantitation Limit PQL
- A01 Detection and quantitation limits are raised due to sample dilution.

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Date of Report: 05/01/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

2855 **Client Project: City Terrace BCL Project:** 2307790 BCL Work Order: B474804 Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 4/19/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte **Client Services Rep**

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

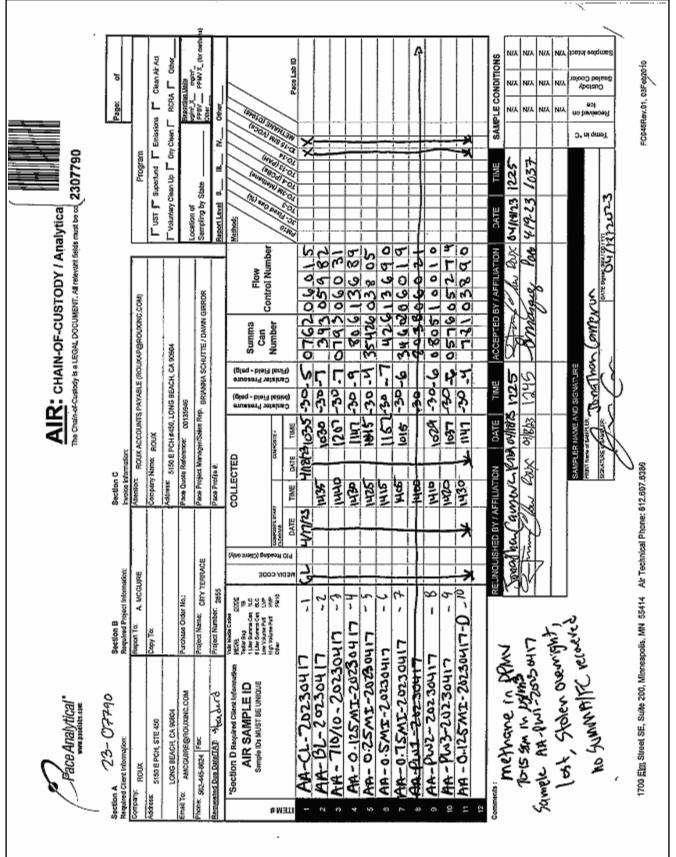


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Chain of Custody and Cooler Receipt Form for 2307790 Page 1 of 2



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Chain of Custody and Cooler Receipt Form for 2307790 Page 2 of 2

Submission #: 23-077	FORM			RECEIP		SHIPPIN	GC	CONTA	Page	(Of	FREEI	
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Custody Seals Ice Chest Intact? Yes No		ontaine t? Yes 🗆		None	Com	ments:						
All samples received? Yes Not	Alls	amples	containe	rs intact?	YesàN	0 🗆		Descrip	tion(s) m	teh COC3	Vark A	
COC Received	Emissi	ivity:	- (ontainer:	Summe	Thermom	otor	ID-	cion(a) m			
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QT INORGANIC CHEMICAL METALS							1		*			
INORGANIC CHEMICAL METALS 402 / S02	/16oz							-				
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PT NITROGEN FORMS					-		P	1				
PT TOTAL SULFIDE							15	HR				
267. NITRATE / NITRITE	-						P					-
PT TOTAL ORGANIC CARBON						-	F	1				-
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T EPA 515.1/8151A							+-					
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Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2307790-01	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:35
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CL-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307790-02	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:30
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-BL-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
307790-03	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 12:07
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307790-04	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 11:47
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.125MI-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307790-05	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:45
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.25MI-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307790-06	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 11:52
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.5MI-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307790-07	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:15
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.75MI-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2307790-08	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:29
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-PW2-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307790-09	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:37
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-PW3-20230417	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307790-10	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 11:47
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.125MI-20230417-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	07790-01 Clien	t Sample Name:	AA-CL-	-20230417, 4/	18/2023 10:35:00	0AM, Client		
Constituent	Ba	sult Units	PQL	MDL	Method	MB	Lab	DCN
Acetone		1.7 ug/m3	·	0.038	EPA-TO-15-SIM	Bias ND	Quals J,A01	1
Benzene	0	.45 ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	1	ND ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	1	ND ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	1	ND ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	0	.27 ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	1	ND ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	1	ND ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	1	ND ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	1	ND ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	:	2.2 ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane	1	ND ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	1	ND ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
I,1-Dichloroethene	1	ND ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	1	ND ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	1	ND ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	1	ND ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
I,1-Difluoroethane	0	.54 ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0	.20 ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	1	ND ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	1	ND ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene		l.7 ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	1	ND ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	1	ND ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	1	ND ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane		l.4 ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoro	ethane 0	.65 ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	1	ND ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	0	.75 ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0	.24 ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	0	.99 ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrog	gate) 1	16 %	50 - 150	(LCL - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrog	gate) 9	0.5 %	50 - 150	(LCL - UCL)	EPA-TO-15-SIM			2

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Reported:05/01/2023 14:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307790-01	Client San	nple Name:	AA-CL-202304	417, 4/18/2023	10:35:00AM,	Client	
		·	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 22:45	BEP	MS-A1	5	B164737	EPA TO-15
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 14:49	BEP	MS-A1	1	B164737	EPA TO-15



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-01	Client Sampl	e Name:	AA-CL-20	230417, 4/	18/2023 10:35:00	OAM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		33	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 14:49	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23077	790-02 Client Samp	e Name:	AA-BL-20	230417, 4/	18/2023 10:30:00	AM, Client		
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	5.4	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene	0.50	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	0.37	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.32	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	1.9	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroeth	ane 0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogat	te) 91.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogat	te) 90.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:05/01/2023 14:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307790-02	Client San	ple Name:	AA-BL-202304	417, 4/18/2023	10:30:00AM,	Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 23:23	BEP	MS-A1	5	B164737	EPA TO-15
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 15:32	BEP	MS-A1	1	B164737	EPA TO-15



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-02	Client Sampl	e Name:	AA-BL-20	230417, 4/	18/2023 10:30:00			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		1.9	ppmv	2.0	1.8	ASTM-D1946	ND	J	1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 15:09	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	07790-03	Client Sampl	e Name:	AA-710/10	AA-710/10-20230417, 4/18/2023 12:07:00PM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		7.1	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene		0.60	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane		2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
trans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
trans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane		0.56	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene		0.28	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene		1.9	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane		1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
Vinyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes		1.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene		0.38	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Total Xylenes		1.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surro	gate)	87.2	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surro	gate)	103	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported:05/01/2023 14:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307790-03	07790-03 Client Sample Name:			230417, 4/18/20	23 12:07:00	PM, Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 00:00	BEP	MS-A1	5	B164737	EPA TO-15
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 16:17	BEP	MS-A1	1	B164737	EPA TO-15



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-03	Client Sampl	e Name:	AA-710/10	0-2023041	7, 4/18/2023 12:0	7:00PM, Clie	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		5.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 15:29	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/2023 14:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	07790-04	Client Sampl	e Name:	AA-0.125	MI-202304	ent			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		5.3	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene		0.62	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform		0.31	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane		2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane		1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene		0.25	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Fetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene		1.8	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane		1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes		0.92	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene		0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes		1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
A-Bromofluorobenzene (Surro	ogate)	92.2	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surro	gate)	97.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Report ID: 1001420395



Reported:05/01/2023 14:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	Sample ID: 2307790-04 Client Sample Name: A			AA-0.125MI-20230417, 4/18/2023 11:47:00AM, Client					
		-	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 00:38	BEP	MS-A1	5	B164737	EPA TO-15	
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 17:03	BEP	MS-A1	1	B164737	EPA TO-15	



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-04	Client Sampl	e Name:	AA-0.125I	MI-202304	17, 4/18/2023 11	:47:00AM, Cli	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		7.6	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 15:49	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23077	90-05 Client Sampl	e Name:	AA-0.25N	AA-0.25MI-20230417, 4/18/2023 10:45:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone	11	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene	0.50	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	0.48	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0.26	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene	1.8	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoroeth	ane 0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes	0.92	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes	1.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrogate	e) 91.3	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogate	e) 98.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001420395



Reported:05/01/2023 14:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2307790-05	Client San	nple Name:	AA-0.25MI-20230417, 4/18/2023 10:45:00AM, Client					
		·	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 01:15	BEP	MS-A1	5	B164737	EPA TO-15	
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 17:47	BEP	MS-A1	1	B164737	EPA TO-15	



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-05	Client Sampl	e Name:	AA-0.25M	II-2023041	7, 4/18/2023 10:4	5:00AM, Clie	nt	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		80	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 16:09	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307790	-06 Client Sample	e Name:	AA-0.5MI	-20230417	t			
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	5.2	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene	0.54	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	0.44	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.23	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	1.9	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	e 0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	0.87	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.28	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes	1.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	86.9	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	95.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307790-06	nple Name:	AA-0.5MI-202	30417, 4/18/202	3 11:52:00A	M, Client		
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 01:53	BEP	MS-A1	5	B164737	EPA TO-15
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 18:30	BEP	MS-A1	1	B164737	EPA TO-15



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-06	Client Sampl	e Name:	AA-0.5MI-	20230417	, 4/18/2023 11:52	2:00AM, Clien	t	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		1.9	ppmv	2.0	1.8	ASTM-D1946	ND	J	1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 16:29	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23077	790-07 Client Samp	e Name:	AA-0.75N	AA-0.75MI-20230417, 4/18/2023 10:15:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone	8.2	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene	0.55	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.3	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	1.3	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0.29	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Toluene	2.2	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoroeth	ane 0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.36	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Total Xylenes	1.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrogat	e) 90.8	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogat	e) 102	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001420395



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2307790-07	Client Sam	ple Name:	AA-0.75MI-20230417, 4/18/2023 10:15:00AM, Client					
			Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 02:30	BEP	MS-A1	5	B164737	EPA TO-15	
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 19:14	BEP	MS-A1	1	B164737	EPA TO-15	

DCN = Data Continuation Number

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Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-07	Client Sampl	e Name:	AA-0.75M	II-2023041	7, 4/18/2023 10:1	nt		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		5.6	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 16:49	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	07790-08	Client Sampl	e Name:	AA-PW2-2	AA-PW2-20230417, 4/18/2023 10:29:00AM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		7.4	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene		0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane		2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
is-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
,1-Difluoroethane		1.4	ug/m3	25	0.014	EPA-TO-15-SIM	ND	J,A01	1	
Ethylbenzene		0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Nethylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
etrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
oluene		2.6	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
richloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
richlorofluoromethane		1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
,1,2-Trichloro-1,2,2-trifluoro	ethane	0.64	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
- & m-Xylenes		1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
-Xylene		0.56	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
otal Xylenes		2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
-Bromofluorobenzene (Surro	gate)	95.3	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
I-Bromofluorobenzene (Surro	gate)	104	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001420395



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2307790-08	Client San	nple Name:	AA-PW2-2023	30417, 4/18/2023	M, Client		
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 03:07	BEP	MS-A1	5	B164737	EPA TO-15
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 19:58	BEP	MS-A1	1	B164737	EPA TO-15



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-08	Client Sampl	e Name:	AA-PW2-2	20230417,	4/18/2023 10:29	00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		22	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method			
1	ASTM-D1946	04/26/23 08:19	04/26/23 17:50	RMK	GC-A1	1	B164949	No Prep			



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307790-0	9 Client Sample	Name:	AA-PW3-2	20230417,	4/18/2023 10:37:0	00AM, Client	AM, Client		
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone	5.3	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene	0.64	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	0.61	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0.33	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene	2.1	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Frichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
I,1,2-Trichloro-1,2,2-trifluoroethane	0.66	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
o- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.37	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrogate)	86.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogate)	91.1	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	D: 2307790-09	Client San	nple Name:	AA-PW3-2023	30417, 4/18/2023	3 10:37:00AI	M, Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 03:45	BEP	MS-A1	5	B164737	EPA TO-15
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 20:43	BEP	MS-A1	1	B164737	EPA TO-15



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-09	Client Sampl	e Name:	AA-PW3-2	20230417,	4/18/2023 10:37	00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		40	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 18:10	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307790-7	10 Client Sample	Client Sample Name:			AA-0.125MI-20230417-D, 4/18/2023 11:47:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
Acetone	4.9	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	J,A01	1		
Benzene	0.56	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2		
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2		
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2		
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2		
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2		
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2		
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2		
I,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2		
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2		
Dichlorodifluoromethane	2.4	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2		
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2		
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2		
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2		
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2		
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2		
I,1-Difluoroethane	0.70	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2		
Ethylbenzene	0.26	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2		
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2		
Fetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2		
Foluene	1.8	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1		
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
richloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2		
Frichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2		
,1,2-Trichloro-1,2,2-trifluoroethane	0.65	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2		
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2		
o- & m-Xylenes	0.97	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2		
o-Xylene	0.32	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
otal Xylenes	1.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2		
-Bromofluorobenzene (Surrogate)	92.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1		
-Bromofluorobenzene (Surrogate)	93.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2		

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Report ID: 1001420395



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2307790-10	Client San	nple Name:	AA-0.125MI-2	20230417-D, 4/18	3/2023 11:47	:00AM, Clier	nt
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/24/23 13:09	04/25/23 04:22	BEP	MS-A1	5	B164737	EPA TO-15
2	EPA-TO-15-SIM	04/24/23 13:09	04/24/23 21:26	BEP	MS-A1	1	B164737	EPA TO-15

DCN = Data Continuation Number

Page 35 of 43



Reported:05/01/2023 14:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307790-10	Client Sampl	e Name:	AA-0.125	VII-202304	17-D, 4/18/2023	11:47:00AM,	Client	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/26/23 08:19	04/26/23 18:30	RMK	GC-A1	1	B164949	No Prep



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B164737							
Acetone	B164737-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B164737-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B164737-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B164737-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B164737-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B164737-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B164737-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B164737-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B164737-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B164737-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B164737-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B164737-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B164737-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B164737-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B164737-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B164737-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B164737-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B164737-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B164737-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B164737-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B164737-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B164737-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B164737-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B164737-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B164737-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B164737-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B164737-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B164737-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B164737-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B164737-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B164737-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B164737-BLK1	87.0	%	50 - 15	0 (LCL - UCL)		1

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1001420395 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

					Run				
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B164737-BLK1	PB	EPA-TO-15-SIM	04/24/23	04/24/23 14:03	BEP	MS-A1	1	

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Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

							•				
								Control I	imits		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B164737											
Benzene	 B164737-BS1	LCS	0.25753	0.31948	ug/m3	80.6		70 - 130			1
	B164737-BSD1	LCSD	0.25938	0.31948	ug/m3	81.2	0.7	70 - 130	30		2
Benzyl chloride	B164737-BS1	LCS	0.48914	0.51772	ug/m3	94.5		70 - 130		J	1
	B164737-BSD1	LCSD	0.53160	0.51772	ug/m3	103	8.3	70 - 130	30	-	2
Carbon tetrachloride	B164737-BS1	LCS	0.60133	0.62913	ug/m3	95.6		70 - 130			1
	B164737-BSD1	LCSD	0.60460	0.62913	ug/m3	96.1	0.5	70 - 130	30		2
Chlorobenzene	B164737-BS1	LCS	0.47734	0.46036	ug/m3	104		70 - 130			1
Chioroberizene	B164737-BSD1	LCS	0.48393	0.46036	ug/m3	105	1.4	70 - 130 70 - 130	30		2
Chloroform	B164737-BS1		0.49592	0.48825	-	102		70 - 130			1
Chioroioitti	B164737-BSD1	LCS LCSD	0.49592	0.48825	ug/m3 ug/m3	102	0.2	70 - 130 70 - 130	30		2
					-		0.2				
1,2-Dibromoethane	B164737-BS1 B164737-BSD1	LCS	0.85348	0.76835 0.76835	ug/m3	111 112	0.5	70 - 130 70 - 130	30		1 2
		LCSD	0.85817		ug/m3		0.5		30		
1,2-Dichlorobenzene	B164737-BS1	LCS	0.67885	0.60124	ug/m3	113	F 4	70 - 130	20		1
	B164737-BSD1	LCSD	0.64290	0.60124	ug/m3	107	5.4	70 - 130	30		2
1,3-Dichlorobenzene	B164737-BS1	LCS	0.69695	0.60124	ug/m3	116		70 - 130			1
	B164737-BSD1	LCSD	0.68469	0.60124	ug/m3	114	1.8	70 - 130	30		2
1,4-Dichlorobenzene	B164737-BS1	LCS	0.70381	0.60124	ug/m3	117		70 - 130			1
	B164737-BSD1	LCSD	0.68246	0.60124	ug/m3	114	3.1	70 - 130	30		2
1,1-Dichloroethane	B164737-BS1	LCS	0.39276	0.40474	ug/m3	97.0		70 - 130			1
	B164737-BSD1	LCSD	0.39142	0.40474	ug/m3	96.7	0.3	70 - 130	30		2
1,2-Dichloroethane	B164737-BS1	LCS	0.38345	0.40474	ug/m3	94.7		70 - 130			1
	B164737-BSD1	LCSD	0.38624	0.40474	ug/m3	95.4	0.7	70 - 130	30		2
1,1-Dichloroethene	B164737-BS1	LCS	0.33175	0.39649	ug/m3	83.7		70 - 130			1
	B164737-BSD1	LCSD	0.33532	0.39649	ug/m3	84.6	1.1	70 - 130	30		2
cis-1,2-Dichloroethene	B164737-BS1	LCS	0.33658	0.39649	ug/m3	84.9		70 - 130			1
	B164737-BSD1	LCSD	0.34313	0.39649	ug/m3	86.5	1.9	70 - 130	30		2
Methylene chloride	B164737-BS1	LCS	0.36408	0.34737	ug/m3	105		70 - 130			1
,	B164737-BSD1	LCSD	0.37072	0.34737	ug/m3	107	1.8	70 - 130	30		2
Tetrachloroethene	B164737-BS1	LCS	0.75110	0.67825	ug/m3	111		70 - 130			1
	B164737-BSD1	LCSD	0.75618	0.67825	ug/m3	111	0.7	70 - 130	30		2
Toluene	B164737-BS1	LCS	0.36064	0.37684	ug/m3	95.7		70 - 130			1
	B164737-BSD1	LCSD	0.36245	0.37684	ug/m3	96.2	0.5	70 - 130	30		2
1,1,1-Trichloroethane	B164737-BS1	LCS	0.52821	0.54562	ug/m3	96.8		70 - 130			1
	B164737-BSD1	LCS	0.52821	0.54562	ug/m3 ug/m3	96.8 96.1	0.7	70 - 130 70 - 130	30		2
1.1.0 Trichlereethare					-		.		50		
1,1,2-Trichloroethane	B164737-BS1 B164737-BSD1	LCSD	0.64672 0.64923	0.54562 0.54562	ug/m3 ug/m3	119 119	0.4	70 - 130 70 - 130	30		1 2
	D104/37-D3D1	LCSD	0.04823	0.04002	uy/ma	119	0.4	70-130	30		<u>۲</u>

Quality Control Report - Laboratory Control Sample

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Report ID: 1001420395



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

								Control I	imits		
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B164737											
Trichloroethene	B164737-BS1	LCS	0.57859	0.53737	ug/m3	108		70 - 130			1
	B164737-BSD1	LCSD	0.58375	0.53737	ug/m3	109	0.9	70 - 130	30		2
Vinyl chloride	B164737-BS1	LCS	0.26973	0.25562	ug/m3	106		70 - 130			1
	B164737-BSD1	LCSD	0.27632	0.25562	ug/m3	108	2.4	70 - 130	30		2
p- & m-Xylenes	B164737-BS1	LCS	0.89265	0.86843	ug/m3	103		70 - 130			1
	B164737-BSD1	LCSD	0.87685	0.86843	ug/m3	101	1.8	70 - 130	30		2
o-Xylene	B164737-BS1	LCS	0.39387	0.43421	ug/m3	90.7		70 - 130			1
	B164737-BSD1	LCSD	0.38940	0.43421	ug/m3	89.7	1.1	70 - 130	30		2
Total Xylenes	B164737-BS1	LCS	1.2865	1.3026	ug/m3	98.8		70 - 130			1
	B164737-BSD1	LCSD	1.2663	1.3026	ug/m3	97.2	1.6	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B164737-BS1	LCS	3.68	3.58	ug/m3	103		50 - 150			1
	B164737-BSD1	LCSD	3.66	3.58	ug/m3	102	0.5	50 - 150			2

Quality Control Report - Laboratory Control Sample

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B164737-BS1	LCS	EPA-TO-15-SIM	04/24/23	04/24/23 12:48	BEP	MS-A1	1
2	B164737-BSD1	LCSD	EPA-TO-15-SIM	04/24/23	04/24/23 13:27	BEP	MS-A1	1



Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent			QC Sample ID	MB Result	Units	PC	ΣL I	MDL I	_ab Quals	Run #
QC Bat Methane (CH4	ch ID: B164949		B164949-BLK1	ND	ppmv	2	.0	1.8		1
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilutio	 ו	
1	B164949-BLK1	PB	ASTM-D1946	04/26/23	04/26/23 14:28	RMK	GC-A1	1		



Reported:05/01/202314:46Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

			Result					Control I	<u>.s</u>		
Constituent	QC Sample ID	Туре		Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B164949											
Methane (CH4)	B164949-BS1	LCS	18969	18000	ppmv	105		70 - 130			1
	B164949-BSD1	LCSD	18846	18000	ppmv	105	0.7	70 - 130	30		2

					Run				
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B164949-BS1	LCS	ASTM-D1946	04/26/23	04/26/23 13:48	RMK	GC-A1	1	
2	B164949-BSD1	LCSD	ASTM-D1946	04/26/23	04/26/23 14:08	RMK	GC-A1	1	

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Reported: 05/01/2023 14:46 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.

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Date of Report: 04/26/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

Client Project:2855BCL Project:City TerraceBCL Work Order:2307789Invoice ID:B474479

Enclosed are the results of analyses for samples received by the laboratory on 4/19/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte Client Services Rep

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

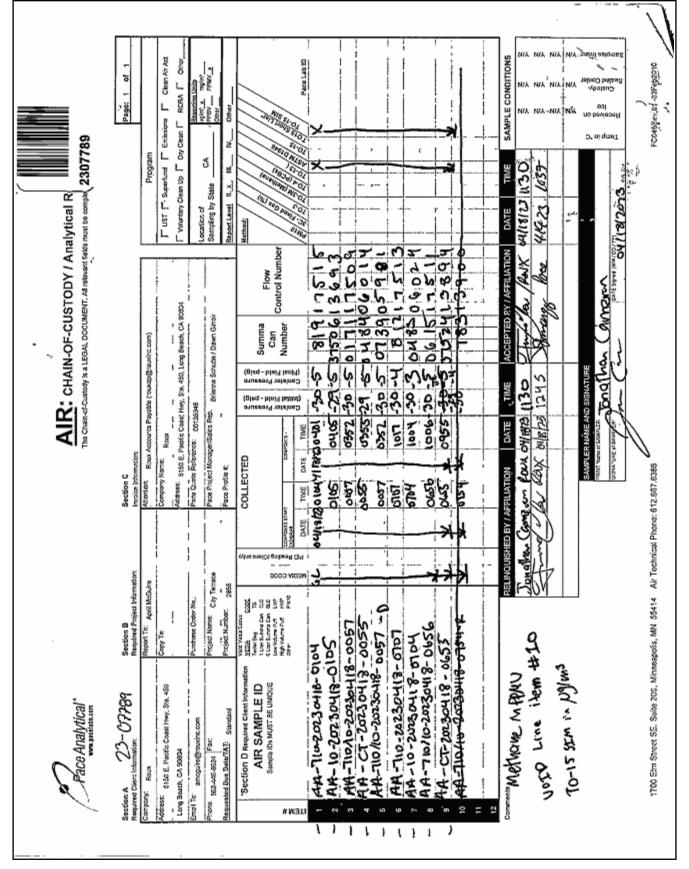


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Report ID: 1001419017



Chain of Custody and Cooler Receipt Form for 2307789 Page 2 of 2

Submission #: 23-07789			RECEIP				Page	Of	and the second second	
SHIPPING INFO Fed Ex 13↓ UPS □ GSO/G	RMATION SLS - H her - (Spe	Hand Deli	ivery 🗆	Ice CI	hest 🗆	G CONTA None 🗆 ecify)	Box N		FREE L YES D W /	NO BL
Refrigerant: Ice D Blue Ice D] None	N 0	Other 🗆	Comme	ents:	10 March 10				
Custody Seals Ice Chest 🗆		ners 🗆	-	Com	and the second se					
All samples received? Yes No 🗆	All sample	es contain	ers Intact?	ves t		Descri	ction(e) m		? Yes D N	
		the second s	Container:		and the second se		non(s) in			the second s
2010	emperature					Temp	2°c		rime <u>9</u> .1 st Init <u>514</u>	14.037
SAMPLE CONTAINERS					SAMPL	LE NUMBERS	s			
	1	2	3	4	5	6	7	8		10
OT PE UNPRES										
402/802/1602 PE UNPRES				+						
200 Cr ⁴⁸		+	+	+			-			
OT INORGANIC CHEMICAL METALS INORGANIC CHEMICAL METALS 40z / 80z / 16s										
PT CYANIDE	x						+++-			
PT NITROGEN FORMS				<u> </u>		Z	++		+	
PT TOTAL SULFIDE		-			+	F	5			+
202. NUTRATE / NITRITE						120	0			+
PT TOTAL ORGANIC CARBON						III-	8	-		-
PT CHEMICAL OXYGEN DEMAND						0,	(J)		-	
PIA PHENOLICS						04				
40ml VOA VIAL TRAVEL BLANK	_		-			\geq	-			
40ml VOA VIAL	_	_	_		_		-			
QT EPA 1664B	_					1 in e				
PTODOR			'			X	3			
RADIOLOGICAL			'	 		10L	2			
BACTERIOLOGICAL	_						- I.			
40 ml VOA VIAL- 504					+					
QT EPA 508/608.3/8081A QT EPA 515.1/8151A		+	+		+		-			
QT EPA 525,2										
QT EPA 525,2 TRAVEL BLANK	1									+
40ml EPA 547	1		+			<u> </u>				
40ml EPA 531.1						1		-		+
ioz EPA 548.1								1		1
9T EPA 549,2								1		
QT EPA 8015M										
2T EPA 8270C										
az/16oz/32oz AMBER					-					
az/16az/32az.JAR										
OIL SLEEVE										
CBVIAL										
LASTIC BAG			++							
EDLAR BAG		+	++		<u>├</u> /					
ERROUS IRON NCORE			++		<u> </u>	h				
		+	++		├ ───┤					
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Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2307789-01	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 04:01
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230418-0104	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
	oumpieu by:		Campie Type.	
2307789-02	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 04:05
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-10-20230418-0105	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307789-03	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 03:52
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230418-0057	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307789-04				04/40/0000 40:07
2307789-04	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 03:55
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CT-20230418-0055	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307789-05	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 03:52
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230418-0057-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307789-06	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:17
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230418-0707	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307789-07	COC Number:		Receive Date:	04/19/2023 10:37
				04/19/2023 10:37
	Project Number:		Sampling Date:	
	Sampling Location:		Sample Depth:	 A :
	Sampling Point:	AA-10-20230418-0704	Lab Matrix:	Air Vapar ar Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2307789-08	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 10:06
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230418-0656	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2307789-09	COC Number:		Receive Date:	04/19/2023 10:37
	Project Number:		Sampling Date:	04/18/2023 09:55
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CT-20230418-0655	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307789-0	1 Client Sampl	e Name:	AA-710-2	0230418-0	104, 4/18/2023 4	:01:00AM, C	lient	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	3.4	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND		1
Benzene	0.58	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.52	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.15	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.59	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.19	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.78	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	98.9	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			1

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Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2307789-01	Client San	nple Name:	lame: AA-710-20230418-0104, 4/18/2023 4:01:00AM, Client					
Run QC									
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 12:40	BEP	MS-A2	1	B164497	EPA TO-15	



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-01	Client Sampl	e Name:	AA-710-20230418-0104, 4/18/2023 4:01:00AM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		23	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run			QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method		
1	ASTM-D1946	04/24/23 08:03	04/24/23 13:23	RMK	GC-A1	1	B164745	No Prep		



Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	7789-02	Client Sampl	e Name:	AA-10-20	230418-01	05, 4/18/2023 4:0	5:00AM, Cli	ent	
Constituent		Decult	Units	PQL	MDL	Method	MB	Lab	DON
Acetone		Result 5.9	ug/m3	1.0	0.0075	EPA-TO-15-SIM	Bias ND	Quals	<u>DCN</u> 1
Benzene		0.44	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
I,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane		2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
sis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
I,1-Difluoroethane		0.73	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene		0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
etrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene		1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Frichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Frichlorofluoromethane		1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
,1,2-Trichloro-1,2,2-trifluoro	ethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
o- & m-Xylenes		0.54	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene		0.17	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Fotal Xylenes		0.71	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surro	gate)	102	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1

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Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2307789-02	Client San	ent Sample Name: AA-10-20230418-0105, 4/18/2023 4:05:00AM, Client					
Run QC								
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 14:02	2 BEP	MS-A2	1	B164497	EPA TO-15



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-02	Client Sampl	e Name:	AA-10-202	230418-01	05, 4/18/2023	4:05:00AM, Clie	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		1.8	ppmv	2.0	1.8	ASTM-D1946	ND	J	1

			Run			QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method	
1	ASTM-D1946	04/24/23 08:03	04/24/23 13:43	RMK	GC-A1	1	B164745	No Prep	



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	307789-03	Client Sampl	e Name:	AA-710/10	0-20230418	3-0057, 4/18/2023	3:52:00AM	I, Client	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		4.3	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND	Quais	1
Benzene		0.58	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
I,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane		2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
is-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
,1-Difluoroethane		0.58	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene		0.16	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
lethylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
etrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
oluene		1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
richloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane		1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
,1,2-Trichloro-1,2,2-trifluor	oethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
o- & m-Xylenes		0.64	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene		0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes		0.86	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
I-Bromofluorobenzene (Surr	ogate)	98.0	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1

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Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2307789-03	Client Sam	Client Sample Name: AA-710/10-20230418-0057, 4/18/2023 3:52:00AM, Client					
DON		Dury Data	Run	A	I		QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 14:46	BEP	MS-A2	1	B164497	EPA TO-15



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-03	Client Sample Name: AA-710/10-20230418-0057, 4/18/2023					3:52:00AM, Client			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Methane (CH4)		4.3	ppmv	2.0	1.8	ASTM-D1946	ND		1	

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/24/23 08:03	04/24/23 14:03	RMK	GC-A1	1	B164745	No Prep



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307789-04	Client Sampl	e Name:	AA-CT-20	230418-00	55, 4/18/2023 3:	55:00AM, Cli	ent	
Constituent	Result	Units	PQL	MDL	Method	MB	Lab	DCN
Acetone	3.9	ug/m3	1.0	0.0075	EPA-TO-15-SIM	Bias ND	Quals	1
Benzene	0.39	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.14	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.53	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.16	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.69	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1

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Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2307789-04	Client San	nple Name:					
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 15:29) BEP	MS-A2	1	B164497	EPA TO-15



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-04	Client Sample Name: AA-CT-20230418-0055, 4/18/2023 3				3:55:00AM, Cli	ent		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		5.0	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method			
1	ASTM-D1946	04/24/23 08:03	04/24/23 14:23	RMK	GC-A1	1	B164745	No Prep			



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307789-0	05 Client Sampl	e Name:	AA-710/1	0-20230418	3-0057-D, 4/18/20	23 3:52:00	AM, Client	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	5.6	ug/m3	1.0	0.0075	EPA-TO-15-SIM	ND	Quais	1
Benzene	0.47	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		1
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		1
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		1
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		1
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		1
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		1
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		1
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		1
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		1
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		1
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		1
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		1
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		1
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		1
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	1
Ethylbenzene	0.17	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		1
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		1
Toluene	1.5	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		1
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		1
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		1
p- & m-Xylenes	0.68	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		1
o-Xylene	0.21	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		1
Total Xylenes	0.89	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		1
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			1

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Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2307789-05	Client San	Client Sample Name: AA-710/10-20230418-0057-D, 4/18/2023 3:52:00AM, Client						
DON			Run	Aughert	1	Dilation	QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 16:12	BEP	MS-A2	1	B164497	EPA TO-15	



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-05	Client Sampl	Client Sample Name: AA-710/10-20230418-0057-D,				4/18/2023 3:52:00AM, Client				
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
Methane (CH4)		67	ppmv	2.0	1.8	ASTM-D1946	ND		1		

DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/24/23 08:03	04/24/23 15:19	RMK	GC-A1	1	B164745	No Prep



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	07789-06	Client Sampl	e Name:	AA-710-2	AA-710-20230418-0707, 4/18/2023 10:17:00AM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
Acetone		4.8	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	1		
Benzene		0.96	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2		
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2		
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2		
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2		
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2		
,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2		
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2		
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2		
,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2		
ichlorodifluoromethane		2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2		
,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2		
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2		
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2		
is-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
ans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2		
ans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2		
,1-Difluoroethane		ND	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND		2		
thylbenzene		0.48	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2		
lethylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2		
etrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2		
oluene		3.2	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1		
,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
richloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2		
richlorofluoromethane		1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2		
,1,2-Trichloro-1,2,2-trifluoro	pethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2		
inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2		
- & m-Xylenes		1.8	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2		
-Xylene		0.65	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
otal Xylenes		2.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2		
-Bromofluorobenzene (Surro	ogate)	101	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1		
-Bromofluorobenzene (Surro	ogate)	98.0	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2		

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Report ID: 1001419017



Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2307789-06	Client San	nple Name:	AA-710-20230	10-20230418-0707, 4/18/2023 10:17:00AM, Client					
			Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 22:03	BEP	MS-A2	10	B164497	EPA TO-15		
2	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 16:57	BEP	MS-A2	1	B164497	EPA TO-15		



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-06	Client Sampl	e Name:	AA-710-20230418-0707, 4/18/2023 10:17:00AM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/24/23 08:03	04/24/23 15:39	RMK	GC-A1	1	B164745	No Prep



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	07789-07	Client Sampl	e Name:	AA-10-20	230418-07	04, 4/18/2023 10:	04:00AM, CI	0AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab	DCN	
Acetone		5.5	ug/m3	10	0.075	EPA-TO-15-SIM	ND	Quals J,A01	<u> </u>	
Benzene		1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane		2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane		0.55	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene		0.62	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene		3.5	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane		1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
o- & m-Xylenes		2.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene		0.87	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes		3.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surro	ogate)	80.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surro	ogate)	105	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001419017



Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307789-07 Client Sa			nple Name:	AA-10-202304	118-0704, 4/18/2	2023 10:04:0	0AM, Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 22:42	BEP	MS-A2	10	B164497	EPA TO-15
2	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 17:41	BEP	MS-A2	1	B164497	EPA TO-15



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-07	Client Sampl	e Name:	AA-10-20230418-0704, 4/18/2023 10:04:00AM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		4.7	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/24/23 08:03	04/24/23 16:00	RMK	GC-A1	1	B164745	No Prep



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307789	-08 Client Sampl	e Name:	AA-710/1	0-20230418	3-0656, 4/18/2023	0656, 4/18/2023 10:06:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN			
Acetone	4.9	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	1			
Benzene	1.2	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2			
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2			
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2			
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2			
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2			
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2			
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2			
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2			
I,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2			
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2			
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2			
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2			
,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2			
sis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2			
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2			
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2			
I,1-Difluoroethane	0.52	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2			
Ethylbenzene	0.66	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2			
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2			
etrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2			
oluene	3.3	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1			
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2			
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2			
richloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2			
Frichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2			
1,1,2-Trichloro-1,2,2-trifluoroethane	e 0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2			
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2			
o- & m-Xylenes	2.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2			
o-Xylene	0.95	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2			
otal Xylenes	3.4	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2			
4-Bromofluorobenzene (Surrogate)	88.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1			
I-Bromofluorobenzene (Surrogate)	108	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2			

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Report ID: 1001419017



Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sampl	e ID: 2307789-08	Client San	nple Name:	AA-710/10-20	230418-0656, 4	/18/2023 10:	:06:00AM, CI	lient
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 23:19	BEP	MS-A2	10	B164497	EPA TO-15
2	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 18:24	BEP	MS-A2	1	B164497	EPA TO-15



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-08	Client Sampl	e Name:	AA-710/10	0-2023041	8-0656, 4/18/2023	3 10:06:00AN		
Constituent Result Units					MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		6.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/24/23 08:03	04/24/23 17:00	RMK	GC-A1	1	B164745	No Prep



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2307789-09	9 Client Sampl	e Name:	AA-CT-20	230418-06	55, 4/18/2023 9:	55:00AM, Cli	ent	
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	8.9	ug/m3	10	0.075	EPA-TO-15-SIM	ND	J,A01	1
Benzene	0.65	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	1.0	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.41	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	8.3	ug/m3	2.0	0.077	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene	2.8	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.64	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.55	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	89.1	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	111	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID:	2307789-09	Client Sam	ple Name:	AA-CT-202304	418-0655, 4/18/2	2023 9:55:0	0AM, Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 23:56	BEP	MS-A2	10	B164497	EPA TO-15
2	EPA-TO-15-SIM	04/19/23 13:39	04/20/23 19:07	BEP	MS-A2	1	B164497	EPA TO-15



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2307789-09	Client Sampl	e Name:	AA-CT-20	230418-06	55, 4/18/2023	9:55:00AM, Cli	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		21	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	04/24/23 08:03	04/24/23 17:20	RMK	GC-A1	1	B164745	No Prep



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B164497							
Acetone	B164497-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B164497-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B164497-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B164497-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B164497-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B164497-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B164497-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B164497-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B164497-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B164497-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B164497-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B164497-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B164497-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B164497-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B164497-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B164497-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B164497-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B164497-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B164497-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B164497-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B164497-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B164497-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B164497-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B164497-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B164497-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B164497-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B164497-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B164497-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B164497-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B164497-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B164497-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B164497-BLK1	67.5	%	50 - 15	0 (LCL - UCL)		1

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Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

						Run				
R	un #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
	1	B164497-BLK1	PB	EPA-TO-15-SIM	04/19/23	04/20/23 01:55	BEP	MS-A2	1	

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Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

			•				•				
								Control I	imits		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B164497											
Benzene	 B164497-BS1	LCS	0.29261	0.31948	ug/m3	91.6		70 - 130			1
	B164497-BSD1	LCSD	0.28957	0.31948	ug/m3	90.6	1.0	70 - 130	30		2
Benzyl chloride	B164497-BS1	LCS	0.54604	0.51772	-	105		70 - 130			1
Benzyi chionde	B164497-BSD1	LCS	0.54664	0.51772	ug/m3 ug/m3	99.6	5.7	70 - 130 70 - 130	30		2
					-		0.1		00		
Carbon tetrachloride	B164497-BS1	LCS	0.59478	0.62913	ug/m3	94.5	0.0	70 - 130	00		1
	B164497-BSD1	LCSD	0.59623	0.62913	ug/m3	94.8	0.2	70 - 130	30		2
Chlorobenzene	B164497-BS1	LCS	0.44958	0.46036	ug/m3	97.7		70 - 130			1
	B164497-BSD1	LCSD	0.45561	0.46036	ug/m3	99.0	1.3	70 - 130	30		2
Chloroform	B164497-BS1	LCS	0.47229	0.48825	ug/m3	96.7		70 - 130			1
	B164497-BSD1	LCSD	0.47531	0.48825	ug/m3	97.4	0.6	70 - 130	30		2
1,2-Dibromoethane	B164497-BS1	LCS	0.76113	0.76835	ug/m3	99.1		70 - 130			1
	B164497-BSD1	LCSD	0.77157	0.76835	ug/m3	100	1.4	70 - 130	30		2
1,2-Dichlorobenzene	B164497-BS1	LCS	0.56787	0.60124	ug/m3	94.4		70 - 130			1
·,	B164497-BSD1	LCSD	0.57616	0.60124	ug/m3	95.8	1.5	70 - 130	30		2
1,3-Dichlorobenzene	B164497-BS1		0.58663	0.60124	ug/m3	97.6		70 - 130			1
1,3-Dichlorobenzene	B164497-BSD1	LCS LCSD	0.61320	0.60124	ug/m3 ug/m3	97.0 102	4.4	70 - 130 70 - 130	30		2
					-						
1,4-Dichlorobenzene	B164497-BS1	LCS	0.62727	0.60124	ug/m3	104	0.5	70 - 130	00		1
	B164497-BSD1	LCSD	0.64981	0.60124	ug/m3	108	3.5	70 - 130	30		2
1,1-Dichloroethane	B164497-BS1	LCS	0.38697	0.40474	ug/m3	95.6		70 - 130			1
	B164497-BSD1	LCSD	0.38361	0.40474	ug/m3	94.8	0.9	70 - 130	30		2
1,2-Dichloroethane	B164497-BS1	LCS	0.37880	0.40474	ug/m3	93.6		70 - 130			1
	B164497-BSD1	LCSD	0.38005	0.40474	ug/m3	93.9	0.3	70 - 130	30		2
1,1-Dichloroethene	B164497-BS1	LCS	0.36743	0.39649	ug/m3	92.7		70 - 130			1
	B164497-BSD1	LCSD	0.36664	0.39649	ug/m3	92.5	0.2	70 - 130	30		2
cis-1,2-Dichloroethene	B164497-BS1	LCS	0.37564	0.39649	ug/m3	94.7		70 - 130			1
	B164497-BSD1	LCSD	0.36656	0.39649	ug/m3	92.4	2.4	70 - 130	30		2
Methylene chloride	B164497-BS1	LCS	0.34595	0.34737	ug/m3	99.6		70 - 130			1
	B164497-BSD1	LCS	0.34395	0.34737	ug/m3	99.0 101	1.7	70 - 130 70 - 130	30		2
					-						
Tetrachloroethene	B164497-BS1	LCS	0.65723	0.67825	ug/m3	96.9	1 1	70 - 130	20		1
	B164497-BSD1	LCSD	0.66638	0.67825	ug/m3	98.2	1.4	70 - 130	30		2
Toluene	B164497-BS1	LCS	0.35469	0.37684	ug/m3	94.1		70 - 130			1
	B164497-BSD1	LCSD	0.35521	0.37684	ug/m3	94.3	0.1	70 - 130	30		2
1,1,1-Trichloroethane	B164497-BS1	LCS	0.51861	0.54562	ug/m3	95.0		70 - 130			1
	B164497-BSD1	LCSD	0.51817	0.54562	ug/m3	95.0	0.1	70 - 130	30		2
1,1,2-Trichloroethane	B164497-BS1	LCS	0.53596	0.54562	ug/m3	98.2		70 - 130			1
	B164497-BSD1	LCSD	0.54131	0.54562	ug/m3	99.2	1.0	70 - 130	30		2

Quality Control Report - Laboratory Control Sample

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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

					Control Limits							
			Spike		Percent		Percent		Lab			
QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #		
B164497-BS1	LCS	0.51636	0.53737	ug/m3	96.1		70 - 130			1		
B164497-BSD1	LCSD	0.52002	0.53737	ug/m3	96.8	0.7	70 - 130	30		2		
B164497-BS1	LCS	0.22934	0.25562	ug/m3	89.7		70 - 130			1		
B164497-BSD1	LCSD	0.25066	0.25562	ug/m3	98.1	8.9	70 - 130	30		2		
B164497-BS1	LCS	0.84737	0.86843	ug/m3	97.6		70 - 130			1		
B164497-BSD1	LCSD	0.87086	0.86843	ug/m3	100	2.7	70 - 130	30		2		
B164497-BS1	LCS	0.38410	0.43421	ug/m3	88.5		70 - 130			1		
B164497-BSD1	LCSD	0.39587	0.43421	ug/m3	91.2	3.0	70 - 130	30		2		
B164497-BS1	LCS	1.2315	1.3026	ug/m3	94.5		70 - 130			1		
B164497-BSD1	LCSD	1.2667	1.3026	ug/m3	97.2	2.8	70 - 130	30		2		
B164497-BS1	LCS	3.72	3.58	ug/m3	104		50 - 150			1		
B164497-BSD1	LCSD	3.64	3.58	ug/m3	102	2.4	50 - 150			2		
	B164497-BSD1 B164497-BS1 B164497-BSD1 B164497-BSD1 B164497-BSD1 B164497-BSD1 B164497-BSD1 B164497-BSD1 B164497-BSD1 B164497-BSD1	B164497-BS1 LCS B164497-BS1 LCSD B164497-BS1 LCS B164497-BS1 LCSD B164497-BS1 LCSD	B164497-BS1 LCS 0.51636 B164497-BSD1 LCSD 0.52002 B164497-BS1 LCS 0.22934 B164497-BS1 LCSD 0.25066 B164497-BS1 LCSD 0.25066 B164497-BS1 LCS 0.84737 B164497-BS1 LCSD 0.87086 B164497-BS1 LCSD 0.38410 B164497-BS1 LCSD 0.39587 B164497-BS1 LCS 1.2315 B164497-BS1 LCSD 1.2667 B164497-BS1 LCSD 3.72	QC Sample ID Type Result Level B164497-BS1 LCS 0.51636 0.53737 B164497-BSD1 LCSD 0.52002 0.53737 B164497-BSD1 LCSD 0.22934 0.25562 B164497-BS1 LCSD 0.25066 0.25562 B164497-BS11 LCSD 0.84737 0.86843 B164497-BS11 LCSD 0.87086 0.86843 B164497-BS11 LCS 0.39587 0.43421 B164497-BS11 LCS 1.2315 1.3026 B164497-BS11 LCSD 1.2667 1.3026 B164497-BS11 LCSD 3.72 3.58	QC Sample IDTypeResultLevelUnitsB164497-BS1LCS0.516360.53737ug/m3B164497-BSD1LCSD0.520020.53737ug/m3B164497-BS1LCS0.229340.25562ug/m3B164497-BS1LCSD0.250660.25562ug/m3B164497-BS1LCSD0.847370.86843ug/m3B164497-BS1LCS0.847370.86843ug/m3B164497-BS1LCS0.395870.43421ug/m3B164497-BS1LCS1.23151.3026ug/m3B164497-BS1LCS1.23151.3026ug/m3B164497-BS1LCS3.723.58ug/m3	QC Sample IDTypeResultLevelUnitsRecoveryB164497-BS1LCS0.516360.53737ug/m396.1B164497-BS1LCSD0.520020.53737ug/m396.8B164497-BS1LCS0.229340.25562ug/m389.7B164497-BS1LCSD0.250660.25562ug/m398.1B164497-BS1LCS0.847370.86843ug/m397.6B164497-BS1LCS0.847360.86843ug/m3100B164497-BS1LCS0.384100.43421ug/m388.5B164497-BS1LCS0.395870.43421ug/m391.2B164497-BS1LCS1.23151.3026ug/m394.5B164497-BS1LCS1.26671.3026ug/m397.2B164497-BS1LCS3.723.58ug/m3104	QC Sample IDTypeResultLevelUnitsRecoveryRPDB164497-BS1LCS0.516360.53737ug/m396.1B164497-BSD1LCSD0.520020.53737ug/m396.80.7B164497-BS1LCS0.229340.25562ug/m389.7B164497-BS1LCSD0.250660.25562ug/m398.18.9B164497-BS11LCS0.847370.86843ug/m397.6B164497-BS11LCS0.847360.86843ug/m31002.7B164497-BS11LCS0.395870.43421ug/m388.5B164497-BS11LCS1.23151.3026ug/m391.23.0B164497-BS11LCS1.23151.3026ug/m394.5B164497-BS11LCS1.26671.3026ug/m397.22.8B164497-BS11LCS3.723.58ug/m3104	QC Sample IDTypeResultSpike LevelUnitsPercent RecoveryPercent RPDPercent RecoveryB164497-BS1LCS0.516360.53737ug/m396.170 - 130B164497-BSD1LCSD0.520020.53737ug/m396.80.770 - 130B164497-BS1LCS0.229340.25562ug/m389.770 - 130B164497-BS1LCSD0.250660.25562ug/m398.18.970 - 130B164497-BS1LCS0.847370.86843ug/m397.670 - 130B164497-BS1LCS0.384100.43421ug/m388.570 - 130B164497-BS1LCS0.395870.43421ug/m388.570 - 130B164497-BS1LCS1.23151.3026ug/m394.570 - 130B164497-BS1LCS1.23151.3026ug/m394.570 - 130B164497-BS1LCS1.23151.3026ug/m394.570 - 130B164497-BS1LCS1.23151.3026ug/m394.570 - 130B164497-BS1LCS1.23151.3026ug/m394.570 - 130B164497-BS1LCS3.723.58ug/m310450 - 150	QC Sample IDTypeResultSpike LevelUnitsPercent RecoveryPercent RPDPercent RecoveryRPDB164497-BS1LCS0.516360.53737ug/m396.170 - 13030B164497-BSD1LCSD0.520020.53737ug/m396.80.770 - 13030B164497-BS1LCS0.229340.25562ug/m389.770 - 13030B164497-BS1LCSD0.250660.25562ug/m398.18.970 - 13030B164497-BS1LCS0.847370.86843ug/m397.670 - 13030B164497-BS1LCS0.870860.86843ug/m31002.770 - 13030B164497-BS1LCS0.384100.43421ug/m388.570 - 13030B164497-BS1LCS1.23151.3026ug/m394.570 - 13030B164497-BS1LCS1.26671.3026ug/m394.570 - 13030B164497-BS1LCS1.26671.3026ug/m397.22.870 - 13030B164497-BS11LCS1.26671.3026ug/m397.22.870 - 13030B164497-BS11LCS3.723.58ug/m310450 - 15010	QC Sample ID Type Result Spike Level Units Percent Recovery Percent Recovery Percent Recovery Lab Quals B164497-BS1 LCS 0.51636 0.53737 ug/m3 96.1 70 - 130 50 B164497-BS1 LCS 0.52002 0.53737 ug/m3 96.8 0.7 70 - 130 30 B164497-BS1 LCS 0.22934 0.25562 ug/m3 89.7 70 - 130 30 B164497-BS1 LCS 0.25066 0.25562 ug/m3 89.7 70 - 130 30 B164497-BS1 LCS 0.84737 0.86843 ug/m3 97.6 70 - 130 30 B164497-BS1 LCS 0.38410 0.43421 ug/m3 97.6 70 - 130 30 B164497-BS1 LCS 0.39587 0.43421 ug/m3 88.5 70 - 130 30 B164497-BS1 LCS 1.2315 1.3026 ug/m3 94.5 70 - 130 30 B164497-BS1 LCSD <		

Quality Control Report - Laboratory Control Sample

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B164497-BS1	LCS	EPA-TO-15-SIM	04/19/23	04/20/23 00:41	BEP	MS-A2	1
2	B164497-BSD1	LCSD	EPA-TO-15-SIM	04/19/23	04/20/23 01:20	BEP	MS-A2	1



Reported:04/26/202312:44Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent			QC Sample ID	MB Result	Units	PC	QL	MDL	Lab Quals	Run #
QC Bat	ach ID: B164745		B164745-BLK1	ND	ppmv	2	.0	1.8		1
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilutio	n	
1	B164745-BLK1	PB	ASTM-D1946	04/24/23	04/24/23 13:03	RMK	GC-A1	1		



Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

								Control L	imits		
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B164745											
Methane (CH4)	B164745-BS1	LCS	19083	18000	ppmv	106		70 - 130			1
	B164745-BSD1	LCSD	19015	18000	ppmv	106	0.4	70 - 130	30		2

					Run				
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B164745-BS1	LCS	ASTM-D1946	04/24/23	04/24/23 12:22	RMK	GC-A1	1	
2	B164745-BSD1	LCSD	ASTM-D1946	04/24/23	04/24/23 12:42	RMK	GC-A1	1	



Reported: 04/26/2023 12:44 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.

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Date of Report: 05/10/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

Client Project:2855BCL Project:City TerraceBCL Work Order:2308087Invoice ID:B475603

Enclosed are the results of analyses for samples received by the laboratory on 4/22/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte Client Services Rep

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

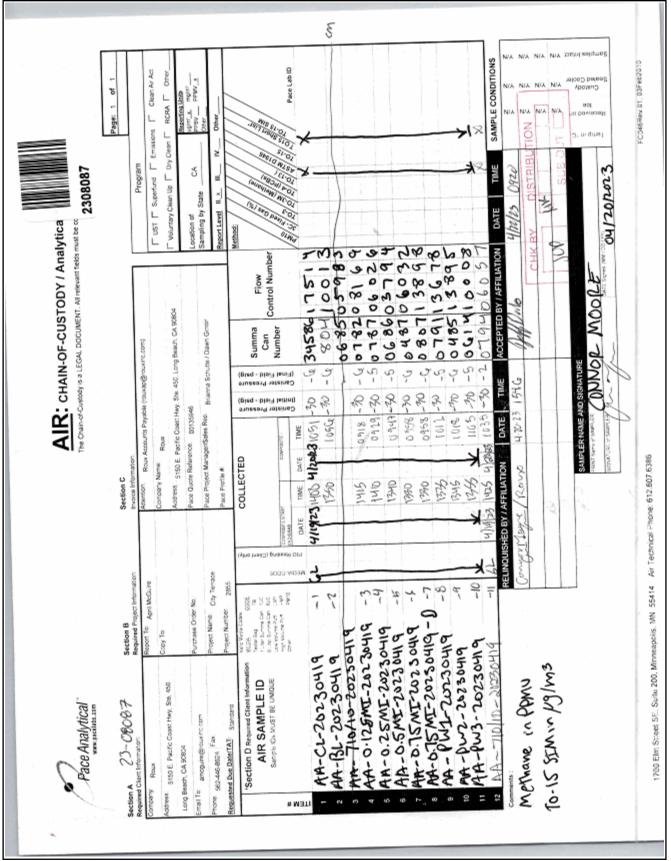


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Chain of Custody and Cooler Receipt Form for 2308087 Page 1 of 3



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Chain of Custody and Cooler Receipt Form for 2308087 Page 2 of 3

Submission #: 23-08087 SHIPPING INFO	RMA	TION			SH Ice Ches			Page 1 ER 1 Box 0	F	REE LIQI ES D NO W / S	o to 🛛
Fed Ex UPS C GSO / G Pace Lab Field Service C Oth	ner 🗆	(Specify)		Other	(Speci	fy)			4470	
Refrigerant: Ice 🗆 Blue Ice 🛙	5	None	Oth		comment						
Custody Seals Ice Chest	l c	ontainen	3 🗆	None	Comme	ents:					
Intact? Yes D No D		t? Yes 🗆 I					Deseriet	ion(o) matr	b COC? Y	es No	
All samples received? Yes No 🗆	All s	amples co	ontainers	intact? Y	es DI Nos				Deterring	4/22/2	13
	Emiss	ivity:	<u> </u>	ntainer: 🚊	WENT TI	ermomete	r 10:	_	Daterina	nit JCD	(ADA)
YES DNO	Temp	erature: (AL R	cóm	<u>.*c / (</u>	c) 10	mp	*C	Analyst	nit (100	0.00
	1						NUMBERS				
SAMPLE CONTAINERS	Ì	1	2	3	4	5	6	7	8	9	- 10
OT P& UNPRES											
doz/Soz/16oz PE UNPRES	_										ļ
lex Cr ⁴⁴	_										
QT INORGANIC CHEMICAL METALS	-										
INORGANIC CHEMICAL METALS 402/1802/1	702										
PT CYANIDE PT NITROGEN FORMS											
PT TOTAL SULFIDE											
207. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml YOA VIAL TRAVEL BLANK											+
40ml VOA VIAL OT EPA 16648											
PT ODOR								+			
RADIOLOGICAL				+							
BACTERIOLOGICAL											
40 mI VOA VIAL- 514				+							
QT EPA 508/608.3/8081A								1			
QT EPA 515.1/8151A											
OT EPA 525.2 OT EPA 525.2 TRAVEL BLANK											
40ml EPA 547								+			
40ml EPA 531.1											
Soz EPA 548.1											
OT EPA 549.2	_										
QT EPA 8015M											
QT EPA 8270C											
802/1602/3202 AMBER		1	1-								
Sex / 16oz / 32oz JAR											
SOIL SLEEVE PCB VIAL											
PLASTIC BAG											
TEDLAR BAG	_										
FERROUS IRON											
ENCORB											
SMART KIT			1	A	A	+ A	A	A	A	A	A
SUMMA CANISTER 6.U	-	A	A								
Comments: Sample Numbering Completed By:		(p		D	ate/Time:	1/12/23	1000	>			23 05/20/22 ISANTECIES 25]

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Chain of Custody and Cooler Receipt Form for 2308087 Page 3 of 3

Submission #: 23-08087 SHIPPING INFO Fed Ex UPS G GSO/G Pace Lab Field Service Oth	RMATIO	land Del	ivery 🗆	S Ice Ch Oth	HIPPING est 🗆 er 🗆 (Sp	G CONTA None D ecify)	Box d		FREE LIG YES D I W /	NON	
Refrigerant: Ice Blue Ice None Other Comments:											
Custody Seals Ice Chest		ners 🗆	1	Comr							
All samples received? Yes No D	Ali sample	s contain	ers intact?	Yes No	0	Descri	iption(s) mat	ch COC2	Vac N No	-	
COC Received	missivity:	_	Container:	Simon	Thermome	ter ID:		Date/Tir	ne 4/22/	23	
	emperature	9: (A)	ncon	_•c /	(c)_1	emp	°C	Analyst	Init JCD	DAZO	
SAMPLE CONTAINERS					SAMPL	E NUMBER	5			1	
QT PE UNPRES	1	2	- 3	4	6	6	7	8	3	10 1	
402/802/1602 PE UNPRES	_				<u> </u>						
2oz Cr ^{es}						+				<u> </u>	
OT INORGANIC CHEMICAL METALS	-									<u> </u>	
INORGANIC CHEMICAL METALS 40g / 80g / 160			_							<u> </u>	
PT CYANIDE				1							
PT NITROGEN FORMS											
PT TOTAL SULFIDE										-	
202. NITRATE / NITRITE				<u> </u>							
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND							1				
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK							+				
40ml VOA VIAL						[
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/603,3/8081A			_								
QT EPA 515.1/8151A											
QT EPA 525.2											
IT EPA 525.2 TRAVEL BLANK											
0ml EPA 547 0ml EPA 531.1											
0m1 EPA 531.1 07 EPA 548.1											
T EPA 549.2											
T EPA 8015M	<u> </u>										
T EPA 8270C ez/16oz/32ez AMBER											
12/1602/3202 AMBER											
DIL SLEEVE											
CB VIAL											
LASTIC BAG											
EDLAR BAG											
ERROUS IRON											
NCORE											
ART KIT											
JMMA CANISTER	A										
mments:	_/1	-			_						
nnents:	D		Date/	Fime: 4/2	2/13	000	(S:WPDoe0%ardPa	dualit in the second	Rev 23 06/2		

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Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2308087-01	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 10:51
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CL-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-02	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 10:56
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-BL-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
308087-03	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 09:18
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.125MI-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-04	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 09:29
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.25MI-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-05	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 09:47
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.5MI-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-06	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 09:58
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.75MI-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-07	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 09:58
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.75MI-20230419-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2308087-08	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 10:12
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-PW1-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-09	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 10:18
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-PW2-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-10	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 11:05
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-PW3-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308087-11	COC Number:		Receive Date:	04/22/2023 09:20
	Project Number:		Sampling Date:	04/20/2023 10:35
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230419	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308	Client Sam	ole Name:	AA-CL-20	230419, 4/	20/2023 10:51:00	AM, Client		
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	7.1	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene	0.96	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	0.76	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.39	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	1.9	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	3.4	ug/m3	0.50	0.048	EPA-TO-15-SIM	ND	A01	1
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroet	hane 0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.49	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surroga	ate) 95.0	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surroga	ate) 103	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2308087-01	Client San	nple Name:	AA-CL-202304	419, 4/20/2023	10:51:00AM,	Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 13:32	BEP	MS-A2	5	B164877	EPA TO-15
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 02:02	BEP	MS-A2	1	B164877	EPA TO-15

DCN = Data Continuation Number

Page 9 of 49



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-01	Client Sampl	e Name:	AA-CL-20230419, 4/20/2023 10:51:00AM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Methane (CH4)		63	ppmv	2.0	1.8	ASTM-D1946	ND		1	

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 10:47	05/01/23 16:50	RMK	GC-A1	1	B165213	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	8087-02 Client Sa	ample Name:	AA-BL-20	0230419, 4/				
Constituent	Resu	lt Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	8.5	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene	0.88	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	0.66	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene	1.9	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	0.93	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroe	thane 0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.52	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrog	ate) 92.5	%	50 - 150 (LO	CL - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrog	ate) 94.1	%	50 - 150 (L	CL - UCL)	EPA-TO-15-SIM			2

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Report ID: 1001423799



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2308087-02	Client Sam	Client Sample Name: AA-BL-20230419, 4/20/20				023 10:56:00AM, Client			
		·	Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 14:09	BEP	MS-A2	5	B164877	EPA TO-15		
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 02:45	BEP	MS-A2	1	B164877	EPA TO-15		



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-02	Client Sample	e Name:	AA-BL-20					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		ND	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 10:47	05/01/23 17:11	RMK	GC-A1	1	B165213	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	08087-03	Client Sampl	e Name:	AA-0.125MI-20230419, 4/20/2023 9:18:00AM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		8.3	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene		1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2	
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane		2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
trans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane		1.1	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene		0.59	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene		2.5	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene		2.6	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane		1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoro	oethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
Vinyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes		2.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene		0.77	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Total Xylenes		2.8	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surro	ogate)	86.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surro	ogate)	105	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2308087-03	Client San	Client Sample Name: AA-0.125MI-20230419, 4/2				20/2023 9:18:00AM, Client			
		-	Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 14:49	BEP	MS-A2	5	B164877	EPA TO-15		
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 03:29	BEP	MS-A2	1	B164877	EPA TO-15		



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-03	Client Sampl	e Name:	AA-0.125MI-20230419, 4/20/2023			9:18:00AM, Clie	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		ND	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 10:47	05/01/23 17:31	RMK	GC-A1	1	B165213	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23080	087-04 Client Sampl	e Name:	AA-0.25M	II-2023041	, 4/20/2023 9:29:00AM, Client			
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	8.0	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene	0.86	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2
I,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.2	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
sis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
I,1-Difluoroethane	0.73	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.46	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Nethylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
etrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
oluene	1.8	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
richloroethene	2.7	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
richlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
,1,2-Trichloro-1,2,2-trifluoroeth	ane 0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
-Xylene	0.58	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
otal Xylenes	2.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
-Bromofluorobenzene (Surrogat	e) 91.1	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
I-Bromofluorobenzene (Surrogat	e) 104	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2308087-04	Client San	nple Name:	AA-0.25MI-20	230419, 4/20/20	230419, 4/20/2023 9:29:00AM, Client				
			Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 15:26	BEP	MS-A2	5	B164877	EPA TO-15		
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 04:12	BEP	MS-A2	1	B164877	EPA TO-15		



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-04	Client Sample	e Name:	AA-0.25M	II-20230419	9, 4/20/2023	9:29:00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		ND	ppmv	2.0	1.8	ASTM-D1946	6 ND		1

		Run						
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 10:47	05/01/23 17:51	RMK	GC-A1	1	B165213	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308087-05	5 Client Sample	Name:	AA-0.5MI	AA-0.5MI-20230419, 4/20/2023 9:47:00AM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB	Lab	DON		
Constituent Acetone	10	ug/m3	5.0	0.038	EPA-TO-15-SIM	Bias ND	Quals A01	<u>DCN</u> 1		
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2		
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2		
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2		
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2		
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2		
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2		
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2		
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2		
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2		
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2		
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2		
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2		
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2		
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2		
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2		
1,1-Difluoroethane	1.0	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2		
Ethylbenzene	0.52	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2		
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2		
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2		
Foluene	2.2	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1		
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
Trichloroethene	3.6	ug/m3	0.50	0.048	EPA-TO-15-SIM	ND	A01	1		
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2		
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2		
o- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2		
o-Xylene	0.67	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
Fotal Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2		
4-Bromofluorobenzene (Surrogate)	87.2	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1		
4-Bromofluorobenzene (Surrogate)	101	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2		

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Report ID: 1001423799



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2308087-05	Client San	nple Name:	AA-0.5MI-202	30419, 4/20/202	3 9:47:00AI	M, Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 16:05	BEP	MS-A2	5	B164877	EPA TO-15
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 04:57	BEP	MS-A2	1	B164877	EPA TO-15



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-05	Client Sampl	e Name:	AA-0.5MI-	20230419	4/20/2023 9:	47:00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		12	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 10:47	05/01/23 18:11	RMK	GC-A1	1	B165213	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308087-0	6 Client Sample	Client Sample Name:			AA-0.75MI-20230419, 4/20/2023 9:58:00AM, Client						
Constituent		11:0:14:0	PQL	MDL	Mathad	MB	Lab	DON			
Constituent Acetone	Result 7.7	Units ug/m3	5.0	0.038	Method EPA-TO-15-SIM	Bias ND	Quals A01	<u>DCN</u> 1			
Benzene	1.0	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2			
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2			
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2			
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2			
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2			
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2			
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2			
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2			
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2			
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2			
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2			
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2			
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2			
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2			
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2			
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2			
1,1-Difluoroethane	1.1	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2			
Ethylbenzene	0.54	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2			
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2			
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2			
Foluene	2.2	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1			
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2			
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2			
Trichloroethene	4.5	ug/m3	0.50	0.048	EPA-TO-15-SIM	ND	A01	1			
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2			
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2			
o- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2			
o-Xylene	0.68	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2			
Fotal Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2			
4-Bromofluorobenzene (Surrogate)	92.2	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1			
4-Bromofluorobenzene (Surrogate)	99.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2			

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Report ID: 1001423799



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	BCL Sample ID: 2308087-06 Client Sample Name:				AA-0.75MI-20230419, 4/20/2023 9:58:00AM, Client					
		-	Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 16:43	BEP	MS-A2	5	B164877	EPA TO-15		
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 05:40	BEP	MS-A2	1	B164877	EPA TO-15		



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-06	Client Sample	e Name:	AA-0.75M	II-2023041	9, 4/20/2023 9:	58:00AM, Clier	nt	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		ND	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:02	05/01/23 19:31	RMK	GC-A1	1	B165241	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230808	7-07 Client Sampl	e Name:	AA-0.75N	11-2023041	9-D, 4/20/2023 9:	58:00AM, C	3:00AM, Client		
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone	7.6	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.1	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	1.3	ug/m3	25	0.014	EPA-TO-15-SIM	ND	J,A01	1	
Ethylbenzene	0.51	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene	2.2	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene	0.57	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoroethar	ne 0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
√inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.65	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Total Xylenes	2.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrogate)	89.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2308087-07	AA-0.75MI-20	230419-D, 4/20/	2023 9:58:0	00AM, Client			
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 17:21	BEP	MS-A2	5	B164877	EPA TO-15
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 06:23	BEP	MS-A2	1	B164877	EPA TO-15



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-07	Client Sample	e Name:	AA-0.75M	II-2023041	9-D, 4/20/2023	9:58:00AM, CI		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		ND	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:02	05/01/23 19:51	RMK	GC-A1	1	B165241	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	08087-08 Clien	t Sample Name:	AA-P\	AA-PW1-20230419, 4/20/2023 10:12:00AM, Client					
Constituent	Re	sult Units	; PQL	. MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		14 ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene	1	l.4 ug/m3	8 0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	1	ND ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	1	ND ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	1	ND ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	1	ND ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	1	ND ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	1	ND ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	1	ND ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2	
1,4-Dichlorobenzene	1	ND ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2	2.0 ug/m3	8 0.050	0.0052	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethane	1	ND ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	1	ND ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethene	1	ND ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	1	ND ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
trans-1,2-Dichloroethene	1	ND ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
trans-1,3-Dichloropropene	1	ND ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	1	l.1 ug/m:	3 5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0	.86 ug/m3	3 0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	1	ND ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	1	ND ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Toluene	2	2.9 ug/m3	3 0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	1	ND ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	1	ND ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene	2	1.3 ug/m3	0.50	0.048	EPA-TO-15-SIM	ND	A01	1	
Trichlorofluoromethane	1	l.2 ug/m3	8 0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoroe	ethane 0	.58 ug/m3	8 0.10	0.0078	EPA-TO-15-SIM	ND		2	
Vinyl chloride	1	ND ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes	:	3.0 ug/m3	3 0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	1	l.2 ug/m3	B 0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes	4	l.1 ug/m3	3 0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrog	gate) 9	1.1 %	50 - 150	(LCL - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrog	gate) 1	19 %	50 - 150	(LCL - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001423799



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2308087-08	nple Name:	AA-PW1-2023	30419, 4/20/2023	3 10:12:00AI	M, Client		
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 17:59	BEP	MS-A2	5	B164877	EPA TO-15
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 07:07	BEP	MS-A2	1	B164877	EPA TO-15



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-08	Client Sampl	e Name:	AA-PW1-2	20230419,	4/20/2023 10:12			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:02	05/01/23 20:52	RMK	GC-A1	1	B165241	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	08087-09	Client Sampl	e Name:	AA-PW2-20230419, 4/20/2023 10:18:00AM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		14	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene		1.7	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2
,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane		2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
is-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
,1-Difluoroethane		1.2	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene		0.88	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
lethylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
etrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
oluene		3.6	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
richloroethene		3.9	ug/m3	0.50	0.048	EPA-TO-15-SIM	ND	A01	1
richlorofluoromethane		1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
,1,2-Trichloro-1,2,2-trifluoro	ethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes		3.0	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene		1.2	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes		4.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surro	ogate)	90.8	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surro	ogate)	112	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Report ID: 1001423799



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2308087-09	Client San	nple Name:	AA-PW2-2023	30419, 4/20/2023	0419, 4/20/2023 10:18:00AM, Client			
		-	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 18:36	BEP	MS-A2	5	B164877	EPA TO-15	
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 07:50	BEP	MS-A2	1	B164877	EPA TO-15	



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-09	Client Sample Name: AA-PW2-20230419, 4/20/2023 10:18:00AM, Client							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		55	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run			QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method	
1	ASTM-D1946	05/01/23 08:02	05/01/23 21:12	RMK	GC-A1	1	B165241	No Prep	



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308	Client Samp	le Name:	AA-PW3-	20230419,				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	8.3	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1
Benzene	1.1	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2
I,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2
,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
is-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
,1-Difluoroethane	0.76	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.54	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
lethylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
etrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
oluene	2.4	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
richloroethene	3.7	ug/m3	0.50	0.048	EPA-TO-15-SIM	ND	A01	1
richlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
,1,2-Trichloro-1,2,2-trifluoroet	hane 0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
- & m-Xylenes	1.9	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.69	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
otal Xylenes	2.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
-Bromofluorobenzene (Surroga	ate) 89.4	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
-Bromofluorobenzene (Surroga	ate) 108	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	BCL Sample ID: 2308087-10		Client Sample Name: AA-PW3-2023			30419, 4/20/2023 11:05:00AM, Client			
		-	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 19:14	BEP	MS-A2	5	B164877	EPA TO-15	
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 08:36	BEP	MS-A2	1	B164877	EPA TO-15	



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-10	Client Sampl	Client Sample Name: AA-PW3-20230419, 4/20/2023 11:05:00AM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		ND	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:02	05/01/23 21:32	RMK	GC-A1	1	B165241	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308	Client Samp	le Name:	AA-710/1	AA-710/10-20230419, 4/20/2023 10:35:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone	7.3	ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	1	
Benzene	1.4	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND	V11	2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.0	ug/m3	0.050	0.0052	EPA-TO-15-SIM	ND		2	
,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
is-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
,1-Difluoroethane	0.78	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0.65	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Aethylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
etrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
oluene	2.6	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
richloroethene	2.2	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
richlorofluoromethane	1.2	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
,1,2-Trichloro-1,2,2-trifluoroet	hane 0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
- & m-Xylenes	2.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.90	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes	3.2	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
I-Bromofluorobenzene (Surroga	ate) 92.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
I-Bromofluorobenzene (Surroga	ate) 109	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2308087-11	Client San	Client Sample Name: AA-710/10-20230419, 4				19, 4/20/2023 10:35:00AM, Client			
			Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 19:51	BEP	MS-A2	5	B164877	EPA TO-15		
2	EPA-TO-15-SIM	04/25/23 13:30	04/26/23 09:21	BEP	MS-A2	1	B164877	EPA TO-15		



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308087-11	Client Sample Name: AA-710/10-20230419, 4/20/2023 10:35:00AM, Client						ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		ND	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/01/23 08:02	05/01/23 21:53	RMK	GC-A1	1	B165241	No Prep



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B164877							
Acetone	B164877-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B164877-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B164877-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B164877-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B164877-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B164877-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B164877-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B164877-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B164877-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B164877-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B164877-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B164877-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B164877-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B164877-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B164877-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B164877-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B164877-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B164877-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B164877-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B164877-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B164877-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B164877-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B164877-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B164877-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B164877-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B164877-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B164877-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B164877-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B164877-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B164877-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B164877-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B164877-BLK1	62.3	%	50 - 15	0 (LCL - UCL)		1

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Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1
1	B164877-BLK1	PB	EPA-TO-15-SIM	04/25/23	04/25/23 22:25	BEP	MS-A2	1

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Report ID: 1001423799



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

			•		-		•				
								Control I	imits		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B164877											
Benzene	B164877-BS1	LCS	0.25820	0.31948	ug/m3	80.8		70 - 130			1
	B164877-BSD1	LCSD	0.26753	0.31948	ug/m3	83.7	3.5	70 - 130	30		2
Benzyl chloride	B164877-BS1	LCS	0.52549	0.51772	ug/m3	102		70 - 130			1
	B164877-BSD1	LCSD	0.61014	0.51772	ug/m3	118	14.9	70 - 130	30		2
Carbon tetrachloride	B164877-BS1	LCS	0.62240	0.62913	ug/m3	98.9		70 - 130			1
	B164877-BSD1	LCSD	0.64102	0.62913	ug/m3	102	2.9	70 - 130	30		2
Chlorobenzene	B164877-BS1	LCS	0.50105	0.46036	ug/m3	109		70 - 130			1
	B164877-BSD1	LCSD	0.50450	0.46036	ug/m3	110	0.7	70 - 130	30		2
Chloroform	B164877-BS1	LCS	0.50520	0.48825	ug/m3	103		70 - 130			1
	B164877-BSD1	LCSD	0.51447	0.48825	ug/m3	105	1.8	70 - 130	30		2
1,2-Dibromoethane	B164877-BS1	LCS	0.89620	0.76835	ug/m3	117		70 - 130			1
,	B164877-BSD1	LCSD	0.92010	0.76835	ug/m3	120	2.6	70 - 130	30		2
1,2-Dichlorobenzene	B164877-BS1	LCS	0.65036	0.60124	ug/m3	108		70 - 130			1
,	B164877-BSD1	LCSD	0.71607	0.60124	ug/m3	119	9.6	70 - 130	30		2
1,3-Dichlorobenzene	B164877-BS1	LCS	0.69749	0.60124	ug/m3	116		70 - 130			1
.,	B164877-BSD1	LCSD	0.77078	0.60124	ug/m3	128	10.0	70 - 130	30		2
1,4-Dichlorobenzene	B164877-BS1	LCS	0.68998	0.60124	ug/m3	115		70 - 130			1
.,	B164877-BSD1	LCSD	0.77427	0.60124	ug/m3	129	11.5	70 - 130	30		2
1,1-Dichloroethane	B164877-BS1	LCS	0.39964	0.40474	ug/m3	98.7		70 - 130			1
,	B164877-BSD1	LCSD	0.41122	0.40474	ug/m3	102	2.9	70 - 130	30		2
1,2-Dichloroethane	B164877-BS1	LCS	0.38782	0.40474	ug/m3	95.8		70 - 130			1
,	B164877-BSD1	LCSD	0.39818	0.40474	ug/m3	98.4	2.6	70 - 130	30		2
1,1-Dichloroethene	B164877-BS1	LCS	0.33524	0.39649	ug/m3	84.6		70 - 130			1
,	B164877-BSD1	LCSD	0.35209	0.39649	ug/m3	88.8	4.9	70 - 130	30		2
cis-1,2-Dichloroethene	B164877-BS1	LCS	0.33472	0.39649	ug/m3	84.4		70 - 130			1
	B164877-BSD1	LCSD	0.34463	0.39649	ug/m3	86.9	2.9	70 - 130	30		2
Methylene chloride	B164877-BS1	LCS	0.36954	0.34737	ug/m3	106		70 - 130			1
	B164877-BSD1	LCSD	0.38715	0.34737	ug/m3	111	4.7	70 - 130	30		2
Tetrachloroethene	B164877-BS1	LCS	0.78250	0.67825	ug/m3	115		70 - 130			1
	B164877-BSD1	LCSD	0.80047	0.67825	ug/m3	118	2.3	70 - 130	30		2
Toluene	B164877-BS1	LCS	0.37537	0.37684	ug/m3	99.6		70 - 130			1
	B164877-BSD1	LCSD	0.37628	0.37684	ug/m3	99.8	0.2	70 - 130	30		2
1,1,1-Trichloroethane	B164877-BS1	LCS	0.53804	0.54562	ug/m3	98.6		70 - 130			1
.,.,	B164877-BSD1	LCSD	0.55670	0.54562	ug/m3	102	3.4	70 - 130	30		2
1,1,2-Trichloroethane	B164877-BS1	LCS	0.68333	0.54562	ug/m3	125		70 - 130			1
	B164877-BSD1	LCS	0.70036	0.54562	ug/m3	123	2.5	70 - 130 70 - 130	30		2
		2000			-3						

Quality Control Report - Laboratory Control Sample

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Report ID: 1001423799



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

							Control I	imits		
			Spike		Percent		Percent		Lab	
QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
B164877-BS1	LCS	0.60702	0.53737	ug/m3	113		70 - 130			1
B164877-BSD1	LCSD	0.62325	0.53737	ug/m3	116	2.6	70 - 130	30		2
B164877-BS1	LCS	0.28417	0.25562	ug/m3	111		70 - 130			1
B164877-BSD1	LCSD	0.27100	0.25562	ug/m3	106	4.7	70 - 130	30		2
B164877-BS1	LCS	0.90555	0.86843	ug/m3	104		70 - 130			1
B164877-BSD1	LCSD	0.94888	0.86843	ug/m3	109	4.7	70 - 130	30		2
B164877-BS1	LCS	0.40890	0.43421	ug/m3	94.2		70 - 130			1
B164877-BSD1	LCSD	0.42457	0.43421	ug/m3	97.8	3.8	70 - 130	30		2
B164877-BS1	LCS	1.3144	1.3026	ug/m3	101		70 - 130			1
B164877-BSD1	LCSD	1.3735	1.3026	ug/m3	105	4.4	70 - 130	30		2
B164877-BS1	LCS	3.69	3.58	ug/m3	103		50 - 150			1
B164877-BSD1	LCSD	3.76	3.58	ug/m3	105	1.9	50 - 150			2
	B164877-BS1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1 B164877-BSD1	B164877-BS1 LCS B164877-BS1 LCSD B164877-BS1 LCS B164877-BS1 LCSD B164877-BS1 LCSD	B164877-BS1 LCS 0.60702 B164877-BSD1 LCSD 0.62325 B164877-BS1 LCS 0.28417 B164877-BS1 LCSD 0.27100 B164877-BS1 LCSD 0.27100 B164877-BS1 LCS 0.90555 B164877-BS1 LCSD 0.94888 B164877-BS1 LCSD 0.40890 B164877-BS1 LCSD 0.42457 B164877-BS1 LCS 1.3144 B164877-BS1 LCSD 1.3735 B164877-BS1 LCSD 3.69	QC Sample ID Type Result Level B164877-BS1 LCS 0.60702 0.53737 B164877-BSD1 LCSD 0.62325 0.53737 B164877-BSD1 LCSD 0.28417 0.25562 B164877-BS1 LCSD 0.27100 0.25562 B164877-BS1 LCSD 0.90555 0.86843 B164877-BS1 LCSD 0.94888 0.86843 B164877-BS1 LCSD 0.42457 0.43421 B164877-BS1 LCS 1.3144 1.3026 B164877-BS11 LCSD 1.3735 1.3026 B164877-BS11 LCSD 3.69 3.58	QC Sample ID Type Result Level Units B164877-BS1 LCS 0.60702 0.53737 ug/m3 B164877-BSD1 LCS 0.62325 0.53737 ug/m3 B164877-BSD1 LCS 0.28417 0.25562 ug/m3 B164877-BS1 LCS 0.27100 0.25562 ug/m3 B164877-BS1 LCS 0.90555 0.86843 ug/m3 B164877-BS1 LCS 0.40890 0.43421 ug/m3 B164877-BS1 LCS 0.42457 0.43421 ug/m3 B164877-BS1 LCS 1.3144 1.3026 ug/m3 B164877-BSD1 LCS 1.3735 1.3026 ug/m3 B164877-BSD1 LCS 1.3735 1.3026 ug/m3 B164877-BSD1 LCS 1.3735 1.3026 ug/m3 B164877-BSD1 LCS 3.69 3.58 ug/m3	QC Sample IDTypeResultLevelUnitsRecoveryB164877-BS1LCS0.607020.53737ug/m3113B164877-BSD1LCSD0.623250.53737ug/m3116B164877-BS11LCS0.284170.25562ug/m3111B164877-BS11LCS0.271000.25562ug/m3106B164877-BS11LCS0.905550.86843ug/m3104B164877-BS11LCS0.905550.86843ug/m3109B164877-BS11LCS0.408900.43421ug/m394.2B164877-BS11LCS0.424570.43421ug/m397.8B164877-BS11LCS1.31441.3026ug/m3101B164877-BS11LCS3.693.58ug/m3103	QC Sample IDTypeResultLevelUnitsRecoveryRPDB164877-BS1LCS0.607020.53737ug/m3113B164877-BSD1LCSD0.623250.53737ug/m31162.6B164877-BS1LCS0.284170.25562ug/m31111162.6B164877-BS1LCSD0.271000.25562ug/m31064.7B164877-BS1LCS0.905550.86843ug/m31041094.7B164877-BS1LCS0.408900.43421ug/m394.21094.7B164877-BS1LCS0.424570.43421ug/m394.23.8B164877-BS1LCS1.31441.3026ug/m31014.4B164877-BS11LCS1.37351.3026ug/m31034.4B164877-BS11LCS3.693.58ug/m3103103	QC Sample IDTypeResultSpike LevelUnitsPercent RecoveryPercent RepB164877-BS1LCS0.607020.53737ug/m311370 - 130B164877-BS1LCS0.623250.53737ug/m31162.670 - 130B164877-BS1LCS0.284170.25562ug/m311170 - 130B164877-BS1LCS0.271000.25562ug/m31064.770 - 130B164877-BS1LCS0.905550.86843ug/m310470 - 130B164877-BS1LCS0.948880.86843ug/m31094.770 - 130B164877-BS1LCS0.408900.43421ug/m394.270 - 130B164877-BS1LCS1.31441.3026ug/m310170 - 130B164877-BS1LCS1.37351.3026ug/m310350 - 150B164877-BS1LCS3.693.58ug/m310350 - 150	QC Sample IDTypeResultSpike LevelUnitsPercent RecoveryPercent RPDPercent RecoveryRPDB164877-BS1LCS0.607020.53737ug/m311370 - 130B164877-BS11LCSD0.623250.53737ug/m31162.670 - 130B164877-BS11LCS0.284170.25562ug/m311170 - 13030B164877-BS11LCS0.271000.25562ug/m31064.770 - 13030B164877-BS11LCS0.905550.86843ug/m310470 - 13030B164877-BS11LCS0.905550.86843ug/m310470 - 13030B164877-BS11LCS0.408900.43421ug/m394.270 - 13030B164877-BS11LCS0.408900.43421ug/m397.83.870 - 13030B164877-BS11LCS1.31441.3026ug/m310170 - 13030B164877-BS11LCS1.31441.3026ug/m310170 - 13030B164877-BS11LCS1.37351.3026ug/m310170 - 13030B164877-BS11LCS3.693.58ug/m310350 - 15010	QC Sample IDTypeResultLevelUnitsRecoveryRPDRecoveryRPDQualsB164877-BS1LCS0.607020.53737ug/m311370 - 13030B164877-BS1LCS0.623250.53737ug/m31162.670 - 13030B164877-BS1LCS0.284170.25562ug/m311170 - 13030B164877-BS1LCS0.271000.25562ug/m31064.770 - 13030B164877-BS1LCS0.905550.86843ug/m310470 - 13030-B164877-BS1LCS0.905550.86843ug/m310470 - 13030-B164877-BS1LCS0.905550.43621ug/m31094.770 - 13030-B164877-BS1LCS0.408900.43421ug/m394.270 - 13030-B164877-BS1LCS0.424570.43421ug/m397.83.870 - 13030B164877-BS1LCS1.31441.3026ug/m310170 - 13030B164877-BS1LCS1.37351.3026ug/m310350 - 150-B164877-BS1LCS3.693.58ug/m310350 - 150-

Quality Control Report - Laboratory Control Sample



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
1	B164877-BS1	LCS	EPA-TO-15-SIM	04/25/23	04/25/23 21:10	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1

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Report ID: 1001423799



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1
2	B164877-BSD1	LCSD	EPA-TO-15-SIM	04/25/23	04/25/23 21:50	BEP	MS-A2	1



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

			•	•			•			
Constituent			QC Sample ID	MB Result	Units	PC	λΓ	MDL	Lab Quals	Run #
QC Bat	ch ID: B165213									
Methane (CH4	4)		B165213-BLK1	ND	ppmv	2	.0	1.8		1
QC Bat	ch ID: B165241									
Methane (CH4	4)		B165241-BLK1	ND	ppmv	2	.0	1.8		2
					Run					
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilutio	n	
1	B165213-BLK1	PB	ASTM-D1946	05/01/23	05/01/23 14:08	RMK	GC-A1	1		
2	B165241-BLK1	PB	ASTM-D1946	05/02/23	05/01/23 19:11	RMK	GC-A1	1		



Reported:05/10/202315:58Project:City TerraceProject Number:2855Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

								Control I	Limits		
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B165213											
Methane (CH4)	B165213-BS1	LCS	20026	18000	ppmv	111		70 - 130			1
	B165213-BSD1	LCSD	19976	18000	ppmv	111	0.3	70 - 130	30		2
QC Batch ID: B165241											
Methane (CH4)	B165241-BS1	LCS	18638	18000	ppmv	104		70 - 130			3
	B165241-BSD1	LCSD	18600	18000	ppmv	103	0.2	70 - 130	30		4

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
1	B165213-BS1	LCS	ASTM-D1946	05/01/23	05/01/23 13:28	RMK	GC-A1	1
2	B165213-BSD1	LCSD	ASTM-D1946	05/01/23	05/01/23 13:48	RMK	GC-A1	1
3	B165241-BS1	LCS	ASTM-D1946	05/02/23	05/01/23 18:31	RMK	GC-A1	1
4	B165241-BSD1	LCSD	ASTM-D1946	05/02/23	05/01/23 18:51	RMK	GC-A1	1



Reported: 05/10/2023 15:58 Project: City Terrace Project Number: 2855 Project Manager: April McGuire

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected

- Analyte Not Detected
- Practical Quantitation Limit PQL
- A01 Detection and quantitation limits are raised due to sample dilution.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 05/10/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

Client Project:36908BCL Project:City TerraceBCL Work Order:2308332Invoice ID:B475571

Enclosed are the results of analyses for samples received by the laboratory on 4/27/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte Client Services Rep

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

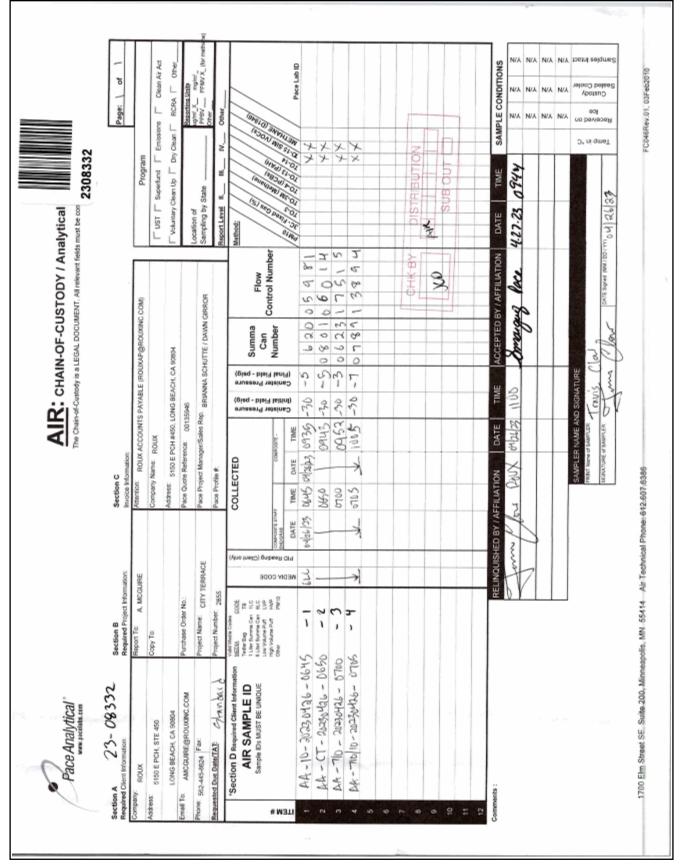


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Chain of Custody and Cooler Receipt Form for 2308332 Page 1 of 2



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Chain of Custody and Cooler Receipt Form for 2308332 Page 2 of 2

Pace Lab Field Service C Refrigerant: Ice Blue Ice		N Hand Deliv		5	UDDING			100	the second se	
		ecify)	very D		est 🖸	CONTAI None 🗆 clfy)	Box B.		FREE LI YES D W /	NO B.
	el Non	e 🖻 🛛 Ot	iher 🗆	Comme	nts:					
Custody Seals Ice Chest	Conta Intact? Yes	iners 🗆 s-O.No D	None	Com	ments:					
All samples received? Yes No D						Descript		-	COLUMN TWO IS NOT THE OWNER.	A state of the sta
COC Received	Emissivity: Temperatur					ter ID:			me <u>4.2</u> t init <i>SA</i> 4	<u>7</u> ·23 4_0944
					> SAMPL	E NUMBERS				
SAMPLE CONTAINERS	1	2	1 3	4	5	6	7	8		10
T PE UNPRES								<u> </u>		
ez/Bez/16ez PE UNPRES								<u> </u>		_
92 Cr ⁴⁶	_							<u> </u>		_
T INORGANIC CHEMICAL METALS								<u> </u>		
NORGANIC CHEMICAL METALS 4oz / 8oz /	160z	_						<u> </u>	-	_
T CYANIDE		•								
T NITROGEN FORMS		_								
T TOTAL SULFIDE		_								
OF, NUTRATE / NUTRITE	_	_			-			<u> </u>		_
T TOTAL ORGANIC CARBON		_								
T CHEMICAL OXYGEN DEMAND									-	
TA PHENOLICS						<u> </u>				+
Om) VOA VIAL TRAVEL BLANK								<u> </u>		+
0ml VOA VIAL				+	- <u></u>					
T EPA 1664B	_					· ·		<u> </u>		
TODOR										
ADIOLOGICAL				+				<u> </u>		+
ACTERIOLOGICAL		<u> </u>			+					-
I mI VOA VIAL- 504								<u> </u>		
T EPA 508/608.3/8081A				+					+	
T EPA 515.1/8151A									+	
T EPA 525.2 T EPA 525.2 TRAVEL BLANK	_		1	1	1					
IT EPA 525.2 TRAVEL BLANK		_	1	1					-[
Omi EPA 547	_		1	1	1					
mi EPA 548.1					1				1	
T EPA 549.2				1						
T EPA 5052		_							1	
T EPA 8270C					1				1	
r / 16az/32ez AMBER										
x/160z/J2oz JAR										
OIL SLEEVE										
CBVIAL										
LASTIC BAG										
EDLAR BAG										
ERROUS JRON										
NCORE										
MART KIT						1				
JMMA CANISTER	A	4	A	A						

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Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2308332-01	COC Number:		Receive Date:	04/27/2023 09:44
	Project Number:		Sampling Date:	04/26/2023 09:35
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-10-20230426-0645	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308332-02	COC Number:		Receive Date:	04/27/2023 09:44
	Project Number:		Sampling Date:	04/26/2023 09:43
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CT-20230426-0650	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308332-03	COC Number:		Receive Date:	04/27/2023 09:44
	Project Number:		Sampling Date:	04/26/2023 09:52
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710-20230426-0700	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308332-04	COC Number:		Receive Date:	04/27/2023 09:44
	Project Number:		Sampling Date:	04/26/2023 10:05
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230426-0705	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	08332-01	Client Sampl	e Name:	AA-10-202	230426-064	45, 4/26/2023 9:3	35:00AM, Cli	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		56	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene		0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene		0.19	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND	J	2
Dichlorodifluoromethane		2.7	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
is-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
,1-Difluoroethane		4.5	ug/m3	50	0.027	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene		0.43	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
lethylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
etrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
oluene		1.9	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
richloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
richlorofluoromethane		1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
,1,2-Trichloro-1,2,2-trifluoro	ethane	0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
- & m-Xylenes		1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene		0.61	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
otal Xylenes		2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
-Bromofluorobenzene (Surro	ogate)	92.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
I-Bromofluorobenzene (Surro	ogate)	106	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308332-01		Client San	nple Name:	AA-10-202304	426-0645, 4/26/2	26-0645, 4/26/2023 9:35:00AM, Client				
		-	Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 18:05	BEP	MS-A1	10	B165619	EPA TO-15		
2	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 18:43	BEP	MS-A1	1	B165619	EPA TO-15		



Reported:05/10/2023 11:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308332-01	Client Sampl	Sample Name: AA-10-20230426-0645, 4/26/2023			9:35:00AM, Clie	ent		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		50	ppmv	2.0	1.8	ASTM-D1946	ND		1

		Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method	
1	ASTM-D1946	05/09/23 08:02	05/09/23 12:20	RMK	GC-A1	1	B165689	No Prep	



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230833	2-02 Client Sampl	e Name:	AA-CT-20	230426-06	50, 4/26/2023 9:	43:00AM, Cli	ent	
Constituent	Result	المنفد	PQL	MDL	Method	MB	Lab	DON
Constituent Acetone	13	Units ug/m3	5.0	0.038	EPA-TO-15-SIM	Bias ND	Quals A01	<u>DCN</u> 1
Benzene	0.63	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	1.4	ug/m3	0.25	0.026	EPA-TO-15-SIM	ND	A01	1
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
I,1-Difluoroethane	1.7	ug/m3	25	0.014	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene	0.35	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Fetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Frichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Frichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethan	ie 0.63	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.45	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrogate)	84.1	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308332-02		Client San	Client Sample Name: AA-CT-202304			426-0650, 4/26/2023 9:43:00AM, Client				
		-	Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 19:14	BEP	MS-A1	5	B165619	EPA TO-15		
2	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 19:52	BEP	MS-A1	1	B165619	EPA TO-15		



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308332-02	Client Sampl	e Name:	AA-CT-20	230426-06	50, 4/26/2023	9:43:00AM, Cli	ent	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.3	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:02	05/09/23 12:40	RMK	GC-A1	1	B165689	No Prep



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	8332-03 Client Sa	mple Name:	AA-710-2	20230426-0	700, 4/26/2023	:52:00AM, C	,		
Constituent	Resul	t Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		ug/m3	5.0	0.038	EPA-TO-15-SIM	ND	A01	<u> </u>	
Benzene	0.87	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	1.4	ug/m3	0.25	0.026	EPA-TO-15-SIM	ND	A01	1	
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	0.93	ug/m3	25	0.014	EPA-TO-15-SIM	ND	J,A01	1	
Ethylbenzene	0.35	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene	1.6	ug/m3	0.10	0.0062	EPA-TO-15-SIM	ND		2	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoroe	ethane 0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
o- & m-Xylenes	1.1	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.44	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes	1.6	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrog	gate) 84.1	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrog	gate) 99.4	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			2	

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Reported: 05/10/2023 11:03 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	BCL Sample ID: 2308332-03 C		nple Name:	0426-0700, 4/26/	26-0700, 4/26/2023 9:52:00AM, Client			
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 20:23	BEP	MS-A1	5	B165619	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 21:01	BEP	MS-A1	1	B165619	EPA TO-15

DCN = Data Continuation Number

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Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308332-03	Client Sampl	Client Sample Name: AA-			700, 4/26/2023	9:52:00AM, C		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.8	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method			
1	ASTM-D1946	05/09/23 08:02	05/09/23 13:00	RMK	GC-A1	1	B165689	No Prep			



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308	332-04 Client Sam	ple Name:	AA-710/1	0-20230420	6-0705, 4/26/2023	10:05:00AN	A, Client	
Constituent	Decult	Unite	PQL	MDL	Mathad	MB	Lab	DON
Constituent Acetone	Result 9.1	Units ug/m3	5.0	0.038	Method EPA-TO-15-SIM	Bias ND	Quals A01	<u>DCN</u> 1
Benzene	1.2	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	1.6	ug/m3	0.25	0.026	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	1.6	ug/m3	25	0.014	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene	0.68	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	4.9	ug/m3	1.0	0.038	EPA-TO-15-SIM	ND	A01	1
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	1.6	ug/m3	0.50	0.031	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroeth	nane 0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
Vinyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
p- & m-Xylenes	2.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.99	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	3.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surroga	te) 82.7	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surroga	te) 107	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			2

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Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	D: 2308332-04	Client San	nple Name:	AA-710/10-20	230426-0705, 4	:05:00AM, CI	ient	
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 21:32	BEP	MS-A1	5	B165619	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 22:10	BEP	MS-A1	1	B165619	EPA TO-15



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308332-04	Client Sampl	e Name:	AA-710/10	0-20230420	6-0705, 4/26/2023	10:05:00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.9	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method			
1	ASTM-D1946	05/09/23 08:02	05/09/23 13:20	RMK	GC-A1	1	B165689	No Prep			



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B165619							
Acetone	B165619-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B165619-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B165619-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B165619-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B165619-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B165619-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B165619-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B165619-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B165619-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B165619-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B165619-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B165619-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B165619-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B165619-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B165619-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B165619-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B165619-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B165619-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B165619-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B165619-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B165619-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B165619-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B165619-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B165619-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B165619-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B165619-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B165619-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B165619-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B165619-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B165619-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B165619-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B165619-BLK1	80.8	%	50 - 15	0 (LCL - UCL)		1

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Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	РВ	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
1	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1

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Report ID: 1001423656



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

	-		-		-		•	Control I	imite		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B165619											
Benzene	 B165619-BS1	LCS	0.31114	0.31948	ug/m3	97.4		70 - 130			1
	B165619-BSD1	LCSD	0.30877	0.31948	ug/m3	96.7	0.8	70 - 130	30		2
Benzyl chloride	B165619-BS1	LCS	0.48122	0.51772	ug/m3	93.0		70 - 130		J	1
	B165619-BSD1	LCSD	0.53227	0.51772	ug/m3	103	10.1	70 - 130	30		2
Carbon tetrachloride	B165619-BS1	LCS	0.68859	0.62913	ug/m3	109		70 - 130			1
	B165619-BSD1	LCSD	0.68305	0.62913	ug/m3	109	0.8	70 - 130	30		2
Chlorobenzene	B165619-BS1	LCS	0.46321	0.46036	ug/m3	101		70 - 130			1
	B165619-BSD1	LCSD	0.46758	0.46036	ug/m3	102	0.9	70 - 130	30		2
Chloroform	B165619-BS1	LCS	0.52673	0.48825	ug/m3	108		70 - 130			1
	B165619-BSD1	LCSD	0.51940	0.48825	ug/m3	106	1.4	70 - 130	30		2
1,2-Dibromoethane	B165619-BS1	LCS	0.81414	0.76835	ug/m3	106		70 - 130			1
	B165619-BSD1	LCSD	0.81714	0.76835	ug/m3	106	0.4	70 - 130	30		2
1,2-Dichlorobenzene	B165619-BS1	LCS	0.62174	0.60124	ug/m3	103		70 - 130			1
	B165619-BSD1	LCSD	0.65925	0.60124	ug/m3	110	5.9	70 - 130	30		2
1,3-Dichlorobenzene	B165619-BS1	LCS	0.53330	0.60124	ug/m3	88.7		70 - 130			1
	B165619-BSD1	LCSD	0.64296	0.60124	ug/m3	107	18.6	70 - 130	30		2
1,4-Dichlorobenzene	B165619-BS1	LCS	0.58693	0.60124	ug/m3	97.6		70 - 130			1
	B165619-BSD1	LCSD	0.59294	0.60124	ug/m3	98.6	1.0	70 - 130	30		2
1,1-Dichloroethane	B165619-BS1	LCS	0.42255	0.40474	ug/m3	104		70 - 130			1
	B165619-BSD1	LCSD	0.42218	0.40474	ug/m3	104	0.1	70 - 130	30		2
1,2-Dichloroethane	B165619-BS1	LCS	0.41203	0.40474	ug/m3	102		70 - 130			1
	B165619-BSD1	LCSD	0.40871	0.40474	ug/m3	101	0.8	70 - 130	30		2
1,1-Dichloroethene	B165619-BS1	LCS	0.40466	0.39649	ug/m3	102		70 - 130			1
	B165619-BSD1	LCSD	0.40062	0.39649	ug/m3	101	1.0	70 - 130	30		2
cis-1,2-Dichloroethene	B165619-BS1	LCS	0.39546	0.39649	ug/m3	99.7		70 - 130			1
	B165619-BSD1	LCSD	0.39404	0.39649	ug/m3	99.4	0.4	70 - 130	30		2
Methylene chloride	B165619-BS1	LCS	0.40921	0.34737	ug/m3	118		70 - 130			1
	B165619-BSD1	LCSD	0.40726	0.34737	ug/m3	117	0.5	70 - 130	30		2
Tetrachloroethene	B165619-BS1	LCS	0.73034	0.67825	ug/m3	108		70 - 130			1
	B165619-BSD1	LCSD	0.73814	0.67825	ug/m3	109	1.1	70 - 130	30		2
Toluene	B165619-BS1	LCS	0.36788	0.37684	ug/m3	97.6		70 - 130			1
	B165619-BSD1	LCSD	0.36916	0.37684	ug/m3	98.0	0.3	70 - 130	30		2
1,1,1-Trichloroethane	B165619-BS1	LCS	0.58349	0.54562	ug/m3	107		70 - 130			1
	B165619-BSD1	LCSD	0.57928	0.54562	ug/m3	106	0.7	70 - 130	30		2
1,1,2-Trichloroethane	B165619-BS1	LCS	0.58861	0.54562	ug/m3	108		70 - 130			1
	B165619-BSD1	LCSD	0.58894	0.54562	ug/m3	108	0.1	70 - 130	30		2

Quality Control Report - Laboratory Control Sample

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Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

								Control I	imits		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B165619											
Trichloroethene	B165619-BS1	LCS	0.57230	0.53737	ug/m3	106		70 - 130			1
	B165619-BSD1	LCSD	0.57564	0.53737	ug/m3	107	0.6	70 - 130	30		2
Vinyl chloride	B165619-BS1	LCS	0.29521	0.25562	ug/m3	115		70 - 130			1
	B165619-BSD1	LCSD	0.29135	0.25562	ug/m3	114	1.3	70 - 130	30		2
p- & m-Xylenes	B165619-BS1	LCS	0.85410	0.86843	ug/m3	98.4		70 - 130			1
	B165619-BSD1	LCSD	0.86204	0.86843	ug/m3	99.3	0.9	70 - 130	30		2
o-Xylene	B165619-BS1	LCS	0.42892	0.43421	ug/m3	98.8		70 - 130			1
	B165619-BSD1	LCSD	0.43795	0.43421	ug/m3	101	2.1	70 - 130	30		2
Total Xylenes	B165619-BS1	LCS	1.2830	1.3026	ug/m3	98.5		70 - 130			1
	B165619-BSD1	LCSD	1.3000	1.3026	ug/m3	99.8	1.3	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B165619-BS1	LCS	3.42	3.58	ug/m3	95.5		50 - 150			1
	B165619-BSD1	LCSD	3.47	3.58	ug/m3	96.9	1.5	50 - 150			2

Quality Control Report - Laboratory Control Sample



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
1	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1

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Report ID: 1001423656



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
2	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent			QC Sample ID	MB Result	Units	PC	λΓ I	MDL	Lab Quals	Run #
QC Bat Methane (CH4	ch ID: B165689		B165689-BLK1	ND	2227	2	0	1.8		1
	+)		B103069-BLK1	ND	ppmv	۷.	.0	1.0		1
					Run					
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilutio	n	
1	B165689-BLK1	PB	ASTM-D1946	05/09/23	05/09/23 11:39	RMK	GC-A1	1		



Reported:05/10/202311:03Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

								Control I	<u>imits</u>		
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B165689											
Methane (CH4)	B165689-BS1	LCS	20435	18000	ppmv	114		70 - 130			1
	B165689-BSD1	LCSD	20514	18000	ppmv	114	0.4	70 - 130	30		2

	Run								
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B165689-BS1	LCS	ASTM-D1946	05/09/23	05/09/23 10:59	RMK	GC-A1	1	
2	B165689-BSD1	LCSD	ASTM-D1946	05/09/23	05/09/23 11:19	RMK	GC-A1	1	



Reported: 05/10/2023 11:03 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.



Date of Report: 05/15/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

Client Project:36908BCL Project:City TerraceBCL Work Order:2308505Invoice ID:B476010

Enclosed are the results of analyses for samples received by the laboratory on 4/29/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte Client Services Rep

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

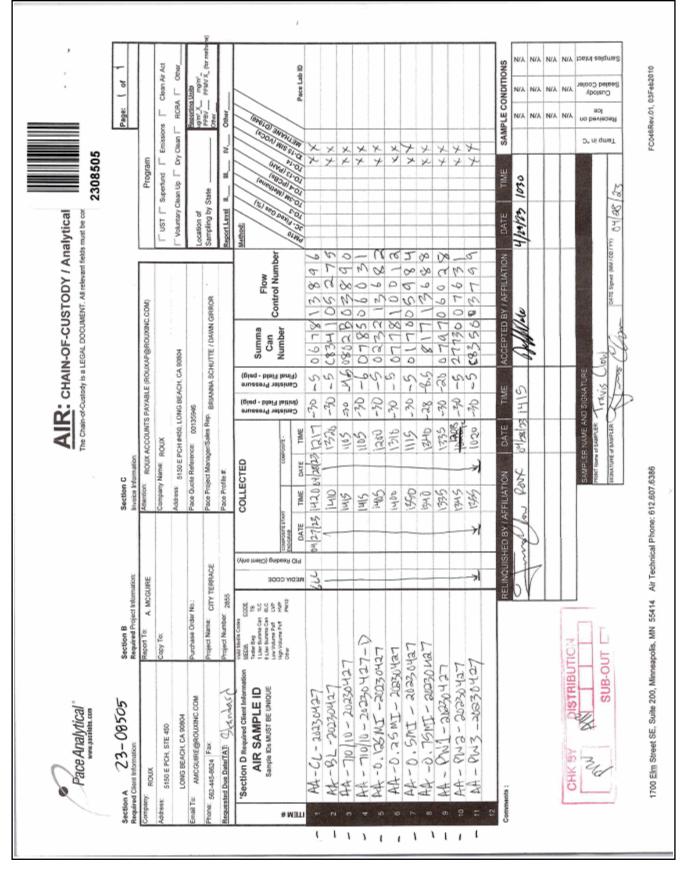


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Fixed Gases by GC/TCD (ASTM D1946)	
2308505-05 - AA-0.125MI-20230427	
Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)	
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Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)	
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Chain of Custody and Cooler Receipt Form for 2308505 Page 1 of 3





Chain of Custody and Cooler Receipt Form for 2308505 Page 2 of 3

Submission #: 73-08505 SHIPPING INF		ATION			1 91	IPPING	CONTAL	NED		COCCII		
Fed Ex 👌 UPS 🗆 GSO	/ GLS	□ Hand Delivery □ Ice Chest □ None □ Box △ □ (Specify) Other □ (Specify)								YES INO D W / S		
Refrigerant: Ice 🗆 Blue Ice	e□	None [d Ot	her 🗆	Commen	ts:						
Custody Seals Ice Chest Intact? Yes No		Containe act? Yes C		Nonel	Q Comm	ients:						
All samples received? Yes 👌 No 🛛	Al	samples	container	s intact?	Yes 🖏 No		Descrip	tion(s) mat	ch COC?	Yes No	0	
COC Received			Ity: Container: Street, Thermometer ID: 337 Date/Time 4/2									
YES DNO		perature:				(c) Te		,c				
	193	perature:	(A) .			(0) 10	Ψ.	°C	Analyst	Init KV	_ 1090	
SAMPLE CONTAINERS	,	L		÷		SAMPLE	NUMBERS					
QT PE UNPRES		1	1 . 2	3	4	5	<u> </u>	7	1 2		10	
4ez/Baz/16ez PE UNPRES			1						<u> </u>	· ···-	+	
Zex Cr ¹⁴										+		
OT INORGANIC CHEMICAL METALS		·				<u> </u>			<u> </u>	+		
INORGANIC CHEMICAL METALS 402 / 802 /	16	——	<u> </u>							 		
TCYANIDE	1402		<u> </u>									
PT NITROGEN FORMS				1							13-	
PT TOTAL SULFIDE											- 	
Int. NITRATE / NITRITE			1							<u> </u>		
PT TOTAL ORGANIC CARBON									1			
PT CHEMICAL OXYGEN DEMAND									í	1		
MA PHENOLICS										1	1	
Buil YOA VIAL TRAVEL BLANK												
Oml VOA VIAL												
2T EPA 1664B												
TODOR	_							:		L .		
MDIOLOGICAL												
ACTERIOLOGICAL -												
0 ml VOA VEAL- 504												
TEPA 508/603.3/9081A												
2T EPA 515.1/8151A												
DT EPA 525.2												
T EPA 525.2 TRAVEL BLANK	_		-									
Rul EPA 547											1	
enii EPA 533,1												
T EPA 549.2	_											
	-										ļ	
T EPA 8015M	-											
or / 16or / 32or AMBER								•				
at / 16ot / 32oz JAR											<u> </u>	
OILSLEEVE											<u> </u>	
CB VIAL											1	
LASTIC BAG												
EDLAR DAG												
ERROUS IRON .					1						1	
NCORE							,				4	
MART KIT ·	Ň											
UMMA CANISTER GL	_	A	A	A	A	A	A	Δ	A	Á.	A	
					<u>4</u>	13 1	1	<u></u>		11	1.70	



Chain of Custody and Cooler Receipt Form for 2308505 Page 3 of 3

Submission #: 23-08505					T FORM	_					
SHIPPING INF Fed Ex UPS G GSO Pace Lab Field Sorvice C	/ GLS I	□ Ha	nd Deliv fy)	ery 🗆	Ice Ch	əst 🗀	CONTA None D	Box A	-	FREE LIG YES O I W /	10 00
Refrigerant: Ice D Blue Ic	e	None	oti	ter 🗆	Commen	its:					
Custody Seals Ice Chest D		ontaine		None	ф Солп	nents:					
All samples received? Yes No		_			Yes Q No			tion(s) mat	ch COC?	Yes U No	0
COC Received	Emiss	ivity: 🚬	C	ontainer; g	SUNTY T	hermomet	er ID: 33	7	Date/Tim	10 4/24/2	3
VES INO	Temp	erature:	(A) R	00m	_•c /	(c) Te	mp	•¢		nit KV	1030
CAUDI E CONTANICOS	. [SAMPLE	INUMBERS		_		
SAMPLE CONTAINERS		11	. 2	3	4	5	6	7	8	9	10
OT PE UNPRES	_									-	1
4ex/Box/16oz PE UNPRES											
202 Cr*						-					
OT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 40z / Soz /	Iéaz										
PT CYANIDS					1						
PT NITROGEN FORMS											->
PT TOTAL SULFIDE											
ZOR. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON	_						-				
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS	_										
40ml VOA VIAL TRAVEL BLANK	<u> </u>										
0ml VOA VIAL	-										
QT EPA 1664B	_										
PTODOR	_							:		8	
RADIOLOGICAL											
BACTERIOLOGICAL											
0 ml VOA VIAL- 504											
T EPA 508/608.3/8081A											
2T EPA 515.2/3151A											
OT EPA 525.2								<u>.</u>			
T EPA 525.2 TRAVEL BLANK											
0ml EPA 547	-										
0ml EPA 531.1 ez EPA 548.1											
T EPA 549.2											
T EPA 8015M											
T EPA \$200C											
m/16m/31oz AMBER	_										
nt / 16az / 32az JAR DIL SLEEVE	-										
CB VIAL											
LASTIC BAG	+										
EDLAR BAG											
RROUS (RON	-										
NCORE	-										
MART KIT	<u> </u>										
UMMA CANISTER 61	<u> </u>	A									
mments: mple Numbering Completed By:		w		P 1 2		ula-	11/2				
Actual / C = Corrected		1.8		Date/	11me: _4/3	123		(5/WPDecWord)	effectLA8_000	Rev 23 05 BFORNBISAME	



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	on		
2308505-01	COC Number:		Receive Date:	04/29/2023 10:30
	Project Number:		Sampling Date:	04/27/2023 12:17
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CL-20230427	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308505-02	COC Number:		Receive Date:	04/29/2023 10:30
	Project Number:		Sampling Date:	04/27/2023 13:20
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-BL-20230427	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
308505-03	COC Number:		Receive Date:	04/29/2023 10:30
	Project Number:		Sampling Date:	04/27/2023 11:05
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230427	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308505-04	COC Number:		Receive Date:	04/29/2023 10:30
	Project Number:		Sampling Date:	04/27/2023 11:05
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-710/10-20230427-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308505-05	COC Number:		Receive Date:	04/29/2023 10:30
	Project Number:		Sampling Date:	04/27/2023 12:00
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.125MI-20230427	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2308505-06	COC Number:		Receive Date:	04/29/2023 10:30
	Project Number:		Sampling Date:	04/27/2023 13:10
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.25MI-20230427	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
308505-07	COC Number:		Receive Date:	04/29/2023 10:30
	Project Number:		Sampling Date:	04/27/2023 11:15
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-0.5MI-20230427	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information								
2308505-08	COC Number:		Receive Date:	04/29/2023 10:30					
	Project Number:		Sampling Date:	04/27/2023 13:40					
	Sampling Location:		Sample Depth:						
	Sampling Point:	AA-0.75MI-20230427	Lab Matrix:	Air					
	Sampled By:	Client	Sample Type:	Vapor or Air					
2308505-09	COC Number:		Receive Date:	04/29/2023 10:30					
	Project Number:		Sampling Date:	04/27/2023 13:35					
	Sampling Location:		Sample Depth:						
	Sampling Point:	AA-PW1-20230427	Lab Matrix:	Air					
	Sampled By:	Client	Sample Type:	Vapor or Air					
2308505-10	COC Number:		Receive Date:	04/29/2023 10:30					
	Project Number:		Sampling Date:	04/27/2023 12:08					
	Sampling Location:		Sample Depth:						
	Sampling Point:	AA-PW2-20230427	Lab Matrix:	Air					
	Sampled By:	Client	Sample Type:	Vapor or Air					
2308505-11	COC Number:		Receive Date:	04/29/2023 10:30					
	Project Number:		Sampling Date:	04/27/2023 10:20					
	Sampling Location:		Sample Depth:						
	Sampling Point:	AA-PW3-20230427	Lab Matrix:	Air					
	Sampled By:	Client	Sample Type:	Vapor or Air					



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	08505-01	Client Sampl	e Name:	AA-CL-20	AA-CL-20230427, 4/27/2023 12:17:00PM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN		
Acetone		13	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1		
Benzene		0.75	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2		
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2		
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2		
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2		
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2		
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2		
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2		
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2		
,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2		
Dichlorodifluoromethane		2.8	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1		
I,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2		
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2		
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2		
is-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2		
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2		
I,1-Difluoroethane		0.73	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2		
Ethylbenzene		0.36	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2		
Methylene chloride		0.77	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2		
Fetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2		
oluene		2.0	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1		
I,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2		
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2		
Trichlorofluoromethane		1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2		
I,1,2-Trichloro-1,2,2-trifluoro	ethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2		
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2		
o- & m-Xylenes		1.2	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2		
o-Xylene		0.45	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2		
Fotal Xylenes		1.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2		
I-Bromofluorobenzene (Surro	gate)	88.0	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1		
4-Bromofluorobenzene (Surro	gate)	105	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2		

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Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	D: 2308505-01	Client San	nple Name:	AA-CL-20230	427, 4/27/2023	27, 4/27/2023 12:17:00PM, Client			
Run							QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 03:16	BEP	MS-A1	10	B165569	EPA TO-15	
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 19:27	BEP	MS-A1	1	B165569	EPA TO-15	



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-01	Client Sampl	t Sample Name: AA-CL-20230427, 4/27/2023 12:17:00PM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		64	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:02	05/09/23 13:41	RMK	GC-A1	1	B165689	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	08505-02	Client Sampl	e Name:	AA-BL-20	230427, 4/2	27/2023 1:20:00F	PM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		15	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	<u> </u>
Benzene		0.75	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
I,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane		3.2	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
is-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
,1-Difluoroethane		0.78	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene		0.40	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
lethylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
etrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
oluene		2.5	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
richloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Frichlorofluoromethane		1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes		1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene		0.50	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes		1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surro	gate)	86.0	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surro	gate)	104	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308505-02 Client Sample Name:			ple Name:	AA-BL-202304	427, 4/27/2023	1:20:00PM,	Client	
Run							QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 03:47	BEP	MS-A1	10	B165569	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 20:04	BEP	MS-A1	1	B165569	EPA TO-15



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-02	Client Sampl	Client Sample Name: AA-BL-20230427, 4/27/2023 1:20:00PM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:02	05/09/23 14:01	RMK	GC-A1	1	B165689	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230850	5-03 Client Sampl	e Name:	AA-710/1	AA-710/10-20230427, 4/27/2023 11:05:00AM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone	10	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1	
Benzene	0.85	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.8	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1	
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
sis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
I,1-Difluoroethane	0.78	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0.42	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Fetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene	2.0	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Frichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Frichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
I,1,2-Trichloro-1,2,2-trifluoroethar	ne 0.61	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
o- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.53	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes	2.0	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrogate)	87.4	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogate)	102	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001424701



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	2308505-03	Client San	nple Name:	230427, 4/27/20	0427, 4/27/2023 11:05:00AM, Client			
		Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 04:18	BEP	MS-A1	10	B165569	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 20:42	BEP	MS-A1	1	B165569	EPA TO-15



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-03	Client Sampl	ent Sample Name: AA-710/10-20230427, 4/27/2023 11:05:00AM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:02	05/09/23 15:01	RMK	GC-A1	1	B165689	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	8505-04 Client Sar	mple Name:	AA-710/1					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	16	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	<u> </u>
Benzene	0.82	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	3.2	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	0.71	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.40	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene	2.4	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Frichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
I,1,2-Trichloro-1,2,2-trifluoroe	ethane 0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	1.4	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.52	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes	1.9	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surrog	gate) 87.7	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surrog	gate) 109	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			2

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Report ID: 1001424701 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.pacelabs.com



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308505-04 Client Sample Name: A			AA-710/10-20	230427-D, 4/27/	2023 11:05:	00AM, Client	t	
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 04:49	BEP	MS-A1	10	B165569	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 21:19	BEP	MS-A1	1	B165569	EPA TO-15



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-04	Client Sampl	e Name:	AA-710/10	0-2023042	7-D, 4/27/2023 1	11:05:00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:02	05/09/23 15:22	RMK	GC-A1	1	B165689	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308505-05	Client Sample	Client Sample Name:			AA-0.125MI-20230427, 4/27/2023 12:00:00PM, Client						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN			
Acetone	12	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1			
Benzene	0.79	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2			
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2			
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2			
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2			
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2			
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2			
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2			
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2			
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2			
Dichlorodifluoromethane	2.9	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1			
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2			
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2			
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2			
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2			
trans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2			
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2			
1,1-Difluoroethane	0.84	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2			
Ethylbenzene	0.37	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2			
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2			
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2			
Toluene	1.9	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1			
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2			
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2			
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2			
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2			
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2			
o- & m-Xylenes	1.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2			
o-Xylene	0.47	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2			
Fotal Xylenes	1.8	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2			
4-Bromofluorobenzene (Surrogate)	86.6	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1			
4-Bromofluorobenzene (Surrogate)	106	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2			

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Report ID: 1001424701



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	BCL Sample ID: 2308505-05 Client Sample Name:			AA-0.125MI-20230427, 4/27/2023 12:00:00PM, Client					
		-	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 05:20	BEP	MS-A1	10	B165569	EPA TO-15	
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 21:57	BEP	MS-A1	1	B165569	EPA TO-15	



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-05	Client Sampl	e Name:	AA-0.125I	MI-202304	27, 4/27/2023 12	:00:00PM, Cl		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		28	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:02	05/09/23 15:58	RMK	GC-A1	1	B165689	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	08505-06	Client Sampl	e Name:	AA-0.25N	AA-0.25MI-20230427, 4/27/2023 1:10:00PM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		16	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1	
Benzene		0.83	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride		ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride		ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene		ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform		ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane		ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene		ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene		ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene		ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane		3.2	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1	
1,1-Dichloroethane		ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane		ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
1,1-Dichloroethene		ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene		ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
trans-1,2-Dichloroethene		ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
trans-1,3-Dichloropropene		ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane		0.83	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene		0.50	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride		ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene		ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene		2.6	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene		ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane		1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
Vinyl chloride		ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
p- & m-Xylenes		1.8	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene		0.66	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Total Xylenes		2.5	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surro	gate)	85.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surro	gate)	108	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001424701



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2308505-06	Client San	nple Name:	AA-0.25MI-20	230427, 4/27/20	23 1:10:00F	PM, Client	
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 05:51	BEP	MS-A1	10	B165569	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 22:34	BEP	MS-A1	1	B165569	EPA TO-15



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-06	Client Sampl	e Name:	AA-0.25M	1-20230427	7, 4/27/2023	1:10:00PM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.9	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:03	05/09/23 17:17	RMK	GC-A1	1	B165690	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308505-0	7 Client Sample	Name:	AA-0.5MI	AA-0.5MI-20230427, 4/27/2023 11:15:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	10	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene	0.70	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.8	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	0.95	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.36	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Fetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Foluene	1.8	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
I,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
I,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Frichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
I,1,2-Trichloro-1,2,2-trifluoroethane	0.59	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	1.3	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.45	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Fotal Xylenes	1.7	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
1-Bromofluorobenzene (Surrogate)	85.2	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
I-Bromofluorobenzene (Surrogate)	104	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Report ID: 1001424701



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308505-07 Client Sample Name:			AA-0.5MI-202	30427, 4/27/202	3 11:15:00A	M, Client		
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 06:22	BEP	MS-A1	10	B165569	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 23:12	BEP	MS-A1	1	B165569	EPA TO-15



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-07	Client Sampl	e Name:	AA-0.5MI-	20230427	, 4/27/2023 11:15	t		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		5.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:03	05/09/23 17:37	RMK	GC-A1	1	B165690	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308505	5-08 Client Sample	e Name:	AA-0.75N	AA-0.75MI-20230427, 4/27/2023 1:40:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals		
Constituent Acetone	Result14	ug/m3	10	0.075	EPA-TO-15-SIM	Bias ND	Quals A01	<u>DCN</u> 1	
Benzene	0.84	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
I,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
I,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.8	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1	
I,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
I,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	0.96	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0.45	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene	2.2	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane	1.4	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
I,1,2-Trichloro-1,2,2-trifluoroethan	e 0.60	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
o- & m-Xylenes	1.6	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.57	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Total Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrogate)	86.3	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogate)	109	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	L Sample ID: 2308505-08 Client Sample Name:			AA-0.75MI-20230427, 4/27/2023 1:40:00PM, Client					
			Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 06:53	BEP	MS-A1	10	B165569	EPA TO-15	
2	EPA-TO-15-SIM	05/05/23 12:29	05/06/23 23:50	BEP	MS-A1	1	B165569	EPA TO-15	



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-08	Client Sampl	e Name:	AA-0.75M	1-20230427	7, 4/27/2023	1:40:00PM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		4.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run			QC				
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method		
1	ASTM-D1946	05/09/23 08:03	05/09/23 17:58	RMK	GC-A1	1	B165690	No Prep		



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	08505-09 C	lient Sampl	le Name:	AA-PW1-20230427, 4/27/2023 1:35:00PM, Client					
Constituent	·	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		23	ug/m3	13	0.098	EPA-TO-15-SIM	ND	A01	1
Benzene		1.8	ug/m3	0.21	0.013	EPA-TO-15-SIM	ND	A01	2
Benzyl chloride		ND	ug/m3	2.1	0.021	EPA-TO-15-SIM	ND	A01	2
Carbon tetrachloride		ND	ug/m3	0.82	0.026	EPA-TO-15-SIM	ND	A01	2
Chlorobenzene		ND	ug/m3	0.41	0.033	EPA-TO-15-SIM	ND	A01	2
Chloroform		ND	ug/m3	0.21	0.024	EPA-TO-15-SIM	ND	A01	2
1,2-Dibromoethane		ND	ug/m3	0.82	0.058	EPA-TO-15-SIM	ND	A01	2
1,2-Dichlorobenzene		ND	ug/m3	0.82	0.045	EPA-TO-15-SIM	ND	A01	2
1,3-Dichlorobenzene		ND	ug/m3	0.82	0.054	EPA-TO-15-SIM	ND	A01	2
1,4-Dichlorobenzene		ND	ug/m3	0.82	0.066	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane		4.4	ug/m3	0.21	0.021	EPA-TO-15-SIM	ND	A01	2
1,1-Dichloroethane		ND	ug/m3	0.21	0.017	EPA-TO-15-SIM	ND	A01	2
1,2-Dichloroethane		ND	ug/m3	0.41	0.019	EPA-TO-15-SIM	ND	A01	2
I,1-Dichloroethene		ND	ug/m3	0.21	0.032	EPA-TO-15-SIM	ND	A01	2
cis-1,2-Dichloroethene		ND	ug/m3	0.21	0.018	EPA-TO-15-SIM	ND	A01	2
rans-1,2-Dichloroethene		ND	ug/m3	0.21	0.031	EPA-TO-15-SIM	ND	A01	2
rans-1,3-Dichloropropene		ND	ug/m3	0.21	0.054	EPA-TO-15-SIM	ND	A01	2
I,1-Difluoroethane		2.1	ug/m3	21	0.011	EPA-TO-15-SIM	ND	J,A01	2
Ethylbenzene		1.0	ug/m3	0.21	0.070	EPA-TO-15-SIM	ND	A01	2
Methylene chloride		ND	ug/m3	0.82	0.032	EPA-TO-15-SIM	ND	A01	2
Tetrachloroethene		ND	ug/m3	0.41	0.045	EPA-TO-15-SIM	ND	A01	2
Foluene		6.0	ug/m3	0.41	0.026	EPA-TO-15-SIM	ND	A01	2
I,1,1-Trichloroethane		ND	ug/m3	0.41	0.023	EPA-TO-15-SIM	ND	A01	2
1,1,2-Trichloroethane		ND	ug/m3	0.41	0.023	EPA-TO-15-SIM	ND	A01	2
Trichloroethene		ND	ug/m3	0.41	0.039	EPA-TO-15-SIM	ND	A01	2
Trichlorofluoromethane		2.4	ug/m3	0.21	0.023	EPA-TO-15-SIM	ND	A01	2
I,1,2-Trichloro-1,2,2-trifluoro	ethane	1.0	ug/m3	0.41	0.032	EPA-TO-15-SIM	ND	A01	2
/inyl chloride		ND	ug/m3	0.082	0.019	EPA-TO-15-SIM	ND	A01	2
o- & m-Xylenes		3.3	ug/m3	0.21	0.034	EPA-TO-15-SIM	ND	A01	2
o-Xylene		1.3	ug/m3	0.21	0.018	EPA-TO-15-SIM	ND	A01	2
Fotal Xylenes		4.6	ug/m3	0.41	0.054	EPA-TO-15-SIM	ND	A01	2
I-Bromofluorobenzene (Surro	gate)	88.5	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surro	qate)	97.2	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	BCL Sample ID: 2308505-09 Client Sample Name:			AA-PW1-20230427, 4/27/2023 1:35:00PM, Client					
		Ē	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 07:25	BEP	MS-A1	13	B165569	EPA TO-15	
2	EPA-TO-15-SIM	05/05/23 12:29	05/08/23 22:54	BEP	MS-A1	4.120	B165619	EPA TO-15	



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-09	Client Sampl	e Name:	AA-PW1-2	20230427,	4/27/2023 1:35	:00PM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		6.4	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:03	05/09/23 18:18	RMK	GC-A1	1	B165690	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308	S505-10 Client Samp	le Name:	AA-PW2-20230427, 4/27/2023 12:08:00PM, Client					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone	12	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1
Benzene	0.91	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2
Dichlorodifluoromethane	2.7	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2
1,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2
trans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2
1,1-Difluoroethane	0.86	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2
Ethylbenzene	0.47	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2
Toluene	2.4	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2
Trichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2
1,1,2-Trichloro-1,2,2-trifluoroet	hane 0.57	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2
o- & m-Xylenes	1.7	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2
o-Xylene	0.60	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2
Total Xylenes	2.3	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2
4-Bromofluorobenzene (Surroga	ate) 86.9	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surroga	ate) 107	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

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Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	BCL Sample ID: 2308505-10 Client Sample Name: A			AA-PW2-2023	30427, 4/27/2023	3 12:08:00PI	M, Client	
		-	Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 07:56	BEP	MS-A1	10	B165569	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 01:06	BEP	MS-A1	1	B165569	EPA TO-15



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-10	Client Sampl	e Name:	AA-PW2-2	20230427,	4/27/2023 12:08	:00PM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.1	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:03	05/09/23 19:18	RMK	GC-A1	1	B165690	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2308505-	11 Client Sample	Client Sample Name:			AA-PW3-20230427, 4/27/2023 10:20:00AM, Client				
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone	10	ug/m3	10	0.075	EPA-TO-15-SIM	ND	A01	1	
Benzene	0.82	ug/m3	0.050	0.0032	EPA-TO-15-SIM	ND		2	
Benzyl chloride	ND	ug/m3	0.50	0.0052	EPA-TO-15-SIM	ND		2	
Carbon tetrachloride	ND	ug/m3	0.20	0.0063	EPA-TO-15-SIM	ND		2	
Chlorobenzene	ND	ug/m3	0.10	0.0079	EPA-TO-15-SIM	ND		2	
Chloroform	ND	ug/m3	0.050	0.0058	EPA-TO-15-SIM	ND		2	
1,2-Dibromoethane	ND	ug/m3	0.20	0.014	EPA-TO-15-SIM	ND		2	
1,2-Dichlorobenzene	ND	ug/m3	0.20	0.011	EPA-TO-15-SIM	ND		2	
1,3-Dichlorobenzene	ND	ug/m3	0.20	0.013	EPA-TO-15-SIM	ND		2	
1,4-Dichlorobenzene	ND	ug/m3	0.20	0.016	EPA-TO-15-SIM	ND		2	
Dichlorodifluoromethane	2.6	ug/m3	0.50	0.052	EPA-TO-15-SIM	ND	A01	1	
1,1-Dichloroethane	ND	ug/m3	0.050	0.0041	EPA-TO-15-SIM	ND		2	
1,2-Dichloroethane	ND	ug/m3	0.10	0.0046	EPA-TO-15-SIM	ND		2	
I,1-Dichloroethene	ND	ug/m3	0.050	0.0078	EPA-TO-15-SIM	ND		2	
cis-1,2-Dichloroethene	ND	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
rans-1,2-Dichloroethene	ND	ug/m3	0.050	0.0075	EPA-TO-15-SIM	ND		2	
rans-1,3-Dichloropropene	ND	ug/m3	0.050	0.013	EPA-TO-15-SIM	ND		2	
1,1-Difluoroethane	0.76	ug/m3	5.0	0.0027	EPA-TO-15-SIM	ND	J	2	
Ethylbenzene	0.42	ug/m3	0.050	0.017	EPA-TO-15-SIM	ND		2	
Methylene chloride	ND	ug/m3	0.20	0.0077	EPA-TO-15-SIM	ND		2	
Tetrachloroethene	ND	ug/m3	0.10	0.011	EPA-TO-15-SIM	ND		2	
Foluene	2.1	ug/m3	1.0	0.062	EPA-TO-15-SIM	ND	A01	1	
1,1,1-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloroethane	ND	ug/m3	0.10	0.0055	EPA-TO-15-SIM	ND		2	
Frichloroethene	ND	ug/m3	0.10	0.0095	EPA-TO-15-SIM	ND		2	
Trichlorofluoromethane	1.3	ug/m3	0.050	0.0057	EPA-TO-15-SIM	ND		2	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.58	ug/m3	0.10	0.0078	EPA-TO-15-SIM	ND		2	
/inyl chloride	ND	ug/m3	0.020	0.0046	EPA-TO-15-SIM	ND		2	
o- & m-Xylenes	1.5	ug/m3	0.050	0.0082	EPA-TO-15-SIM	ND		2	
o-Xylene	0.54	ug/m3	0.050	0.0044	EPA-TO-15-SIM	ND		2	
Fotal Xylenes	2.1	ug/m3	0.10	0.013	EPA-TO-15-SIM	ND		2	
4-Bromofluorobenzene (Surrogate)	85.8	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surrogate)	103	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Report ID: 1001424701



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	D: 2308505-11	Client San	nple Name:	AA-PW3-2023	30427, 4/27/2023			
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 08:28	BEP	MS-A1	10	B165569	EPA TO-15
2	EPA-TO-15-SIM	05/05/23 12:29	05/07/23 01:44	BEP	MS-A1	1	B165569	EPA TO-15



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2308505-11	Client Sampl	e Name:	AA-PW3-2	20230427,	4/27/2023 10:20	00AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.2	ppmv	2.0	1.8	ASTM-D1946	ND		1

			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/09/23 08:03	05/09/23 19:38	RMK	GC-A1	1	B165690	No Prep



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B165569							
Acetone	B165569-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B165569-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B165569-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B165569-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B165569-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B165569-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B165569-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B165569-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B165569-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B165569-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B165569-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B165569-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B165569-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B165569-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B165569-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B165569-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B165569-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B165569-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B165569-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B165569-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B165569-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B165569-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B165569-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B165569-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B165569-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B165569-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B165569-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B165569-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B165569-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B165569-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B165569-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B165569-BLK1	77.6	%	50 - 15	0 (LCL - UCL)		1

QC Batch ID: B165619

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Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B165619							
Benzene	B165619-BLK1	ND	ug/m3	0.050	0.0032		2
Benzyl chloride	B165619-BLK1	ND	ug/m3	0.50	0.0052		2
Carbon tetrachloride	B165619-BLK1	ND	ug/m3	0.20	0.0063		2
Chlorobenzene	B165619-BLK1	ND	ug/m3	0.10	0.0079		2
Chloroform	B165619-BLK1	ND	ug/m3	0.050	0.0058		2
1,2-Dibromoethane	B165619-BLK1	ND	ug/m3	0.20	0.014		2
1,2-Dichlorobenzene	B165619-BLK1	ND	ug/m3	0.20	0.011		2
1,3-Dichlorobenzene	B165619-BLK1	ND	ug/m3	0.20	0.013		2
1,4-Dichlorobenzene	B165619-BLK1	ND	ug/m3	0.20	0.016		2
Dichlorodifluoromethane	B165619-BLK1	ND	ug/m3	0.050	0.0052		2
1,1-Dichloroethane	B165619-BLK1	ND	ug/m3	0.050	0.0041		2
1,2-Dichloroethane	B165619-BLK1	ND	ug/m3	0.10	0.0046		2
1,1-Dichloroethene	B165619-BLK1	ND	ug/m3	0.050	0.0078		2
cis-1,2-Dichloroethene	B165619-BLK1	ND	ug/m3	0.050	0.0044		2
trans-1,2-Dichloroethene	B165619-BLK1	ND	ug/m3	0.050	0.0075		2
trans-1,3-Dichloropropene	B165619-BLK1	ND	ug/m3	0.050	0.013		2
1,1-Difluoroethane	B165619-BLK1	ND	ug/m3	5.0	0.0027		2
Ethylbenzene	B165619-BLK1	ND	ug/m3	0.050	0.017		2
Methylene chloride	B165619-BLK1	ND	ug/m3	0.20	0.0077		2
Tetrachloroethene	B165619-BLK1	ND	ug/m3	0.10	0.011		2
Toluene	B165619-BLK1	ND	ug/m3	0.10	0.0062		2
1,1,1-Trichloroethane	B165619-BLK1	ND	ug/m3	0.10	0.0055		2
1,1,2-Trichloroethane	B165619-BLK1	ND	ug/m3	0.10	0.0055		2
Trichloroethene	B165619-BLK1	ND	ug/m3	0.10	0.0095		2
Trichlorofluoromethane	B165619-BLK1	ND	ug/m3	0.050	0.0057		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B165619-BLK1	ND	ug/m3	0.10	0.0078		2
Vinyl chloride	B165619-BLK1	ND	ug/m3	0.020	0.0046		2
p- & m-Xylenes	B165619-BLK1	ND	ug/m3	0.050	0.0082		2
o-Xylene	B165619-BLK1	ND	ug/m3	0.050	0.0044		2
Total Xylenes	B165619-BLK1	ND	ug/m3	0.10	0.013		2
4-Bromofluorobenzene (Surrogate)	B165619-BLK1	80.8	%	50 - 15	0 (LCL - UCL)		2

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Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

					Run				
Run #	QC Sample ID	QC Type		Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	
1	B165569-BLK1	PB	EPA-TO-15-SIM	05/05/23	05/06/23 06:21	BEP	MS-A1	1	

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Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2 Rull #	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1
2	B165619-BLK1	PB	EPA-TO-15-SIM	05/08/23	05/08/23 14:57	BEP	MS-A1	1

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Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

			•								
								Control I	imits		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B165569											
Benzene	 B165569-BS1	LCS	0.27989	0.31948	ug/m3	87.6		70 - 130			1
	B165569-BSD1	LCSD	0.28299	0.31948	ug/m3	88.6	1.1	70 - 130	30		2
Benzyl chloride	B165569-BS1	LCS	0.49934	0.51772	ug/m3	96.4		70 - 130		J	1
Donzyrolliollad	B165569-BSD1	LCSD	0.49650	0.51772	ug/m3	95.9	0.6	70 - 130	30	J	2
Carbon tetrachloride	B165569-BS1	LCS	0.56792	0.62913	ug/m3	90.3		70 - 130			1
Carbon tetrachionde	B165569-BSD1	LCS	0.57522	0.62913	ug/m3	91.4	1.3	70 - 130	30		2
Chlorobenzene	B165569-BS1		0.42652	0.46036		92.6		70 - 130			1
Chioroberizene	B165569-BSD1	LCS LCSD	0.42652	0.46036	ug/m3 ug/m3	92.0 92.7	0.0	70 - 130 70 - 130	30		2
					-		0.0				
Chloroform	B165569-BS1 B165569-BSD1	LCS	0.44778 0.44768	0.48825 0.48825	ug/m3 ug/m3	91.7 91.7	0.0	70 - 130 70 - 130	30		1 2
		LCSD			-		0.0		50		
1,2-Dibromoethane	B165569-BS1	LCS	0.71579	0.76835	ug/m3	93.2	0.4	70 - 130	00		1
	B165569-BSD1	LCSD	0.71664	0.76835	ug/m3	93.3	0.1	70 - 130	30		2
1,2-Dichlorobenzene	B165569-BS1	LCS	0.56991	0.60124	ug/m3	94.8		70 - 130			1
	B165569-BSD1	LCSD	0.58188	0.60124	ug/m3	96.8	2.1	70 - 130	30		2
1,3-Dichlorobenzene	B165569-BS1	LCS	0.62967	0.60124	ug/m3	105		70 - 130			1
	B165569-BSD1	LCSD	0.56684	0.60124	ug/m3	94.3	10.5	70 - 130	30		2
1,4-Dichlorobenzene	B165569-BS1	LCS	0.54839	0.60124	ug/m3	91.2		70 - 130			1
	B165569-BSD1	LCSD	0.61116	0.60124	ug/m3	102	10.8	70 - 130	30		2
1,1-Dichloroethane	B165569-BS1	LCS	0.37115	0.40474	ug/m3	91.7		70 - 130			1
	B165569-BSD1	LCSD	0.37094	0.40474	ug/m3	91.6	0.1	70 - 130	30		2
1,2-Dichloroethane	B165569-BS1	LCS	0.36593	0.40474	ug/m3	90.4		70 - 130			1
	B165569-BSD1	LCSD	0.36471	0.40474	ug/m3	90.1	0.3	70 - 130	30		2
1,1-Dichloroethene	B165569-BS1	LCS	0.35689	0.39649	ug/m3	90.0		70 - 130			1
	B165569-BSD1	LCSD	0.35696	0.39649	ug/m3	90.0	0.0	70 - 130	30		2
cis-1,2-Dichloroethene	B165569-BS1	LCS	0.35970	0.39649	ug/m3	90.7		70 - 130			1
	B165569-BSD1	LCSD	0.35566	0.39649	ug/m3	89.7	1.1	70 - 130	30		2
Methylene chloride	B165569-BS1	LCS	0.34696	0.34737	ug/m3	99.9		70 - 130			1
	B165569-BSD1	LCSD	0.34515	0.34737	ug/m3	99.4	0.5	70 - 130	30		2
Tetrachloroethene	B165569-BS1	LCS	0.62922	0.67825	ug/m3	92.8		70 - 130			1
Tetrachioroethene	B165569-BSD1	LCSD	0.62772	0.67825	ug/m3	92.6	0.2	70 - 130 70 - 130	30		2
Taluana							0.2				
Toluene	B165569-BS1 B165569-BSD1	LCS LCSD	0.34093 0.34240	0.37684 0.37684	ug/m3 ug/m3	90.5 90.9	0.4	70 - 130 70 - 130	30		1 2
					-		0.4		50		
1,1,1-Trichloroethane	B165569-BS1 B165569-BSD1	LCS	0.49499	0.54562	ug/m3	90.7 00.6	0.1	70 - 130 70 - 130	20		1
		LCSD	0.49455	0.54562	ug/m3	90.6	0.1		30		2
1,1,2-Trichloroethane	B165569-BS1	LCS	0.50415	0.54562	ug/m3	92.4		70 - 130			1
	B165569-BSD1	LCSD	0.50443	0.54562	ug/m3	92.5	0.1	70 - 130	30		2

Quality Control Report - Laboratory Control Sample

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Report ID: 1001424701



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

								Control Limits			
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B165569											
Trichloroethene	B165569-BS1	LCS	0.49798	0.53737	ug/m3	92.7		70 - 130			1
	B165569-BSD1	LCSD	0.49884	0.53737	ug/m3	92.8	0.2	70 - 130	30		2
Vinyl chloride	B165569-BS1	LCS	0.24186	0.25562	ug/m3	94.6		70 - 130			1
	B165569-BSD1	LCSD	0.24473	0.25562	ug/m3	95.7	1.2	70 - 130	30		2
p- & m-Xylenes	B165569-BS1	LCS	0.79140	0.86843	ug/m3	91.1		70 - 130			1
	B165569-BSD1	LCSD	0.79496	0.86843	ug/m3	91.5	0.4	70 - 130	30		2
o-Xylene	B165569-BS1	LCS	0.39309	0.43421	ug/m3	90.5		70 - 130			1
	B165569-BSD1	LCSD	0.39587	0.43421	ug/m3	91.2	0.7	70 - 130	30		2
Total Xylenes	B165569-BS1	LCS	1.1845	1.3026	ug/m3	90.9		70 - 130			1
	B165569-BSD1	LCSD	1.1908	1.3026	ug/m3	91.4	0.5	70 - 130	30		2
4-Bromofluorobenzene (Surrogate)	B165569-BS1	LCS	3.59	3.58	ug/m3	100		50 - 150			1
	B165569-BSD1	LCSD	3.57	3.58	ug/m3	99.7	0.7	50 - 150			2
QC Batch ID: B165619											
Benzene	B165619-BS1	LCS	0.31114	0.31948	ug/m3	97.4		70 - 130			3
	B165619-BSD1	LCSD	0.30877	0.31948	ug/m3	96.7	0.8	70 - 130	30		4
Benzyl chloride	B165619-BS1	LCS	0.48122	0.51772	ug/m3	93.0		70 - 130		J	3
,	B165619-BSD1	LCSD	0.53227	0.51772	ug/m3	103	10.1	70 - 130	30		4
Carbon tetrachloride	B165619-BS1	LCS	0.68859	0.62913	ug/m3	109		70 - 130			3
	B165619-BSD1	LCSD	0.68305	0.62913	ug/m3	109	0.8	70 - 130	30		4
Chlorobenzene	B165619-BS1	LCS	0.46321	0.46036	ug/m3	101		70 - 130			3
	B165619-BSD1	LCSD	0.46758	0.46036	ug/m3	102	0.9	70 - 130	30		4
Chloroform	B165619-BS1	LCS	0.52673	0.48825	ug/m3	108		70 - 130			3
	B165619-BSD1	LCSD	0.51940	0.48825	ug/m3	106	1.4	70 - 130	30		4
1,2-Dibromoethane	B165619-BS1	LCS	0.81414	0.76835	ug/m3	106		70 - 130			3
	B165619-BSD1	LCSD	0.81714	0.76835	ug/m3	106	0.4	70 - 130	30		4
1,2-Dichlorobenzene	B165619-BS1	LCS	0.62174	0.60124	ug/m3	103		70 - 130			3
1,2-Dichlorobenzene	B165619-BSD1	LCSD	0.65925	0.60124	ug/m3	100	5.9	70 - 130 70 - 130	30		4
1,3-Dichlorobenzene	B165619-BS1	LCS	0.53330	0.60124	ug/m3	88.7		70 - 130			3
1,5-Dichlorobenzene	B165619-BSD1	LCSD	0.64296	0.60124	ug/m3	107	18.6	70 - 130 70 - 130	30		4
1,4-Dichlorobenzene	B165619-BS1	LCS	0.58693	0.60124	ug/m3	97.6		70 - 130			3
1,4-Dichlorobenzene	B165619-BSD1	LCSD	0.59294	0.60124	ug/m3	98.6	1.0	70 - 130 70 - 130	30		4
1.1 Dichloroothono	B165619-BS1			0.40474	-			70 - 130			3
1,1-Dichloroethane	B165619-BSD1	LCS LCSD	0.42255 0.42218	0.40474	ug/m3 ug/m3	104 104	0.1	70 - 130 70 - 130	30		3 4
					-		v. i				
1,2-Dichloroethane	B165619-BS1 B165619-BSD1	LCS LCSD	0.41203 0.40871	0.40474 0.40474	ug/m3 ug/m3	102 101	0.8	70 - 130 70 - 130	30		3 4
					-		0.0		30		
1,1-Dichloroethene	B165619-BS1	LCS	0.40466	0.39649	ug/m3	102	1.0	70 - 130 70 - 130	20		3 ⊿
	B165619-BSD1	LCSD	0.40062	0.39649	ug/m3	101	1.0	70 - 130	30		4

Quality Control Report - Laboratory Control Sample

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Report ID: 1001424701



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

								Control L	<u>imits</u>		
				Spike		Percent		Percent		Lab	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #
QC Batch ID: B165619											
cis-1,2-Dichloroethene	B165619-BS1	LCS	0.39546	0.39649	ug/m3	99.7		70 - 130			3
	B165619-BSD1	LCSD	0.39404	0.39649	ug/m3	99.4	0.4	70 - 130	30		4
Methylene chloride	B165619-BS1	LCS	0.40921	0.34737	ug/m3	118		70 - 130			3
	B165619-BSD1	LCSD	0.40726	0.34737	ug/m3	117	0.5	70 - 130	30		4
Tetrachloroethene	B165619-BS1	LCS	0.73034	0.67825	ug/m3	108		70 - 130			3
	B165619-BSD1	LCSD	0.73814	0.67825	ug/m3	109	1.1	70 - 130	30		4
Toluene	B165619-BS1	LCS	0.36788	0.37684	ug/m3	97.6		70 - 130			3
	B165619-BSD1	LCSD	0.36916	0.37684	ug/m3	98.0	0.3	70 - 130	30		4
1,1,1-Trichloroethane	B165619-BS1	LCS	0.58349	0.54562	ug/m3	107		70 - 130			3
	B165619-BSD1	LCSD	0.57928	0.54562	ug/m3	106	0.7	70 - 130	30		4
1,1,2-Trichloroethane	B165619-BS1	LCS	0.58861	0.54562	ug/m3	108		70 - 130			3
	B165619-BSD1	LCSD	0.58894	0.54562	ug/m3	108	0.1	70 - 130	30		4
Trichloroethene	B165619-BS1	LCS	0.57230	0.53737	ug/m3	106		70 - 130			3
	B165619-BSD1	LCSD	0.57564	0.53737	ug/m3	107	0.6	70 - 130	30		4
Vinyl chloride	B165619-BS1	LCS	0.29521	0.25562	ug/m3	115		70 - 130			3
	B165619-BSD1	LCSD	0.29135	0.25562	ug/m3	114	1.3	70 - 130	30		4
p- & m-Xylenes	B165619-BS1	LCS	0.85410	0.86843	ug/m3	98.4		70 - 130			3
	B165619-BSD1	LCSD	0.86204	0.86843	ug/m3	99.3	0.9	70 - 130	30		4
o-Xylene	B165619-BS1	LCS	0.42892	0.43421	ug/m3	98.8		70 - 130			3
	B165619-BSD1	LCSD	0.43795	0.43421	ug/m3	101	2.1	70 - 130	30		4
Total Xylenes	B165619-BS1	LCS	1.2830	1.3026	ug/m3	98.5		70 - 130			3
	B165619-BSD1	LCSD	1.3000	1.3026	ug/m3	99.8	1.3	70 - 130	30		4
4-Bromofluorobenzene (Surrogate)	B165619-BS1	LCS	3.42	3.58	ug/m3	95.5		50 - 150			3
	B165619-BSD1	LCSD	3.47	3.58	ug/m3	96.9	1.5	50 - 150			4

Quality Control Report - Laboratory Control Sample

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Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
1	B165569-BS1	LCS	EPA-TO-15-SIM	05/05/23	05/06/23 05:20	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1

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Report ID: 1001424701



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
2	B165569-BSD1	LCSD	EPA-TO-15-SIM	05/05/23	05/06/23 05:53	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1

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Report ID: 1001424701



Reported:05/15/202316:55Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
3	B165619-BS1	LCS	EPA-TO-15-SIM	05/08/23	05/08/23 13:56	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1
4	B165619-BSD1	LCSD	EPA-TO-15-SIM	05/08/23	05/08/23 14:29	BEP	MS-A1	1

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Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

			-	-			-			
Constituent			QC Sample ID	MB Result	Units	PQL		MDL	Lab Quals	Run #
QC Bat	ch ID: B165689									
Methane (CH4)			B165689-BLK1	ND	ppmv	2.0		1.8		1
QC Bat	ch ID: B165690									
Methane (CH4	4)		B165690-BLK1	ND	ppmv	2	.0	1.8		2
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilutio	n	
1	B165689-BLK1	PB	ASTM-D1946	05/09/23	05/09/23 11:39	RMK	GC-A1	1		
2	B165690-BLK1	PB	ASTM-D1946	05/09/23	05/09/23 16:57	RMK	GC-A1	1		



Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

						Control Limits					
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B165689											
Methane (CH4)	B165689-BS1	LCS	20435	18000	ppmv	114		70 - 130			1
	B165689-BSD1	LCSD	20514	18000	ppmv	114	0.4	70 - 130	30		2
QC Batch ID: B165690											
Methane (CH4)	B165690-BS1	LCS	21482	18000	ppmv	119		70 - 130			3
	B165690-BSD1	LCSD	21352	18000	ppmv	119	0.6	70 - 130	30		4

			Run							
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution		
1	B165689-BS1	LCS	ASTM-D1946	05/09/23	05/09/23 10:59	RMK	GC-A1	1		
2	B165689-BSD1	LCSD	ASTM-D1946	05/09/23	05/09/23 11:19	RMK	GC-A1	1		
3	B165690-BS1	LCS	ASTM-D1946	05/09/23	05/09/23 16:18	RMK	GC-A1	1		
4	B165690-BSD1	LCSD	ASTM-D1946	05/09/23	05/09/23 16:37	RMK	GC-A1	1		

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Reported: 05/15/2023 16:55 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.

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Date of Report: 05/17/2023

April McGuire

Roux Associates, Inc -Long Beach 5150 E. Pacific Coast Hwy, Suite 450 Long Beach, CA 90804

Client Project:36908BCL Project:City TerraceBCL Work Order:2309559Invoice ID:B476283

Enclosed are the results of analyses for samples received by the laboratory on 5/13/2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Brianna Schutte Client Services Rep

A

Stuart Buttram Operations Manager

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

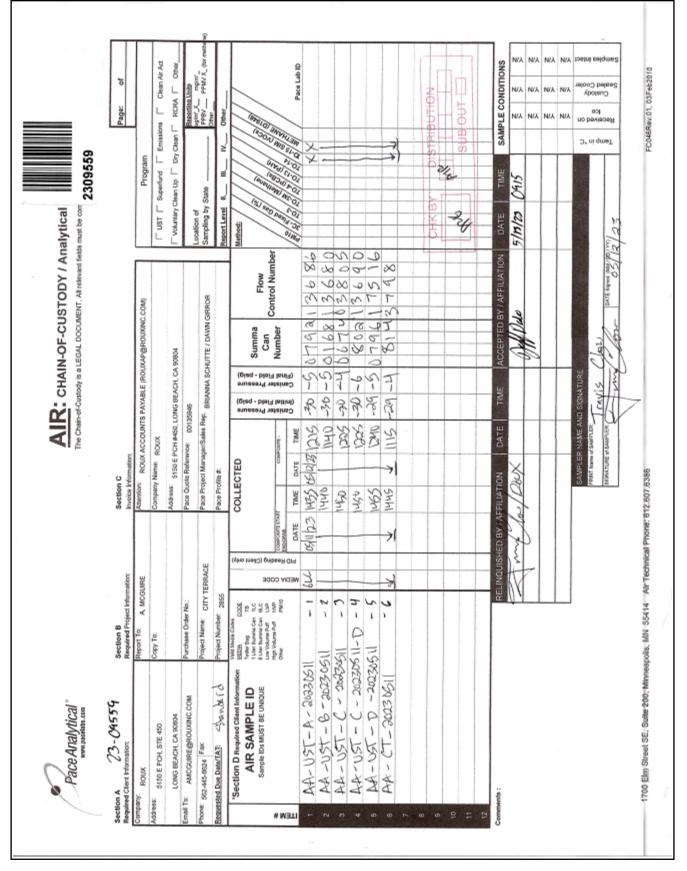


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Chain of Custody and Cooler Receipt Form for 2309559 Page 2 of 2

PACE ANALYTICAL ·	FORM Page Of									
Submission #: 23-09559										
SHIPPING INFORM Fed Ex L UPS GSO / GLS Pace Lab Field Service Other	ATION Ha	ind Deliv	ery 🗆	SHIPPING CONTAINER FREE LIQUID Ice Chest □ None □ Box № Other □ (Specify) W / S						
Refrigerant: Ice 🗆 Blue Ice 🗆	None	V Ot	her 🗆	Commen	ts:					
Intact? Yes D No D Int	Contain act? Yes [ers 🗆 I No 🖸	None	S Comn	nents:					
All samples received? Yes No 🗆 All	i samples	container	s Intact?	Yes No		Descrip	tion(s) mat	ch COC?	Yes 🖌 No	0
						er ID: pnj/			10 <u>5/13/2</u> Init_ <u>)CN</u>	
SAMPLE CONTAINERS	1	2	3	1 4	SAMPLE	NUMBERS	7	1		1
QT PE UNPRES			1				<u> </u>	8	9	10
402/802/1602 PE UNPRES										
2nz Cr ⁴⁶										
OT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 402 / 802 / 1602										
PT CYANIDE										
PT NITROGEN FORMS										<u> </u>
PT TOTAL SULFIDE										
Roz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										1
PT CHEMICAL OXYGEN DEMAND										<u> </u>
PIA PHENOLICS										<u> </u>
0ml VOA VIAL TRAVEL BLANK										
umi VOA VIAL										
QT EPA 16648										
TODOR									-	
ADIOLOGICAL -								· · · · ·		
ACTERIOLOGICAL										
0 ml VOA VIAL- 504										
)T EPA 508/608.3/3081A										
YT EPA 515.1/8151A										
T EPA 515,1										
T EPA 325.1 T EPA 525.2 TRAVEL BLANK										
0ml EPA 547										
Oml EPA 531.[
oz EPA 548.I										
VT EPA 549.2										
T EPA 8015M										
or / 16oz / 32oz AMBER										
nz / 160z / 320z JAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
EDLAR BAG										
ERROUS IRON										
NCORE										
MART KIT										
UMMA CANISTER	A	A	A	A	A	A				

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Reported: 05/17/2023 18:06 Project: City Terrace Project Number: 36908 Project Manager: April McGuire

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Informati	01		
2309559-01	COC Number:		Receive Date:	05/13/2023 09:15
	Project Number:		Sampling Date:	05/11/2023 12:15
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-UST-A-20230511	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2309559-02	COC Number:		Receive Date:	05/13/2023 09:15
	Project Number:		Sampling Date:	05/11/2023 11:40
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-UST-B-20230511	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2309559-03	COC Number:		Receive Date:	05/13/2023 09:15
	Project Number:		Sampling Date:	05/11/2023 12:25
	Sampling Location:		Sampling Date.	
		 AA-UST-C-20230511		Air
	Sampling Point:	Client	Lab Matrix:	Vapor or Air
	Sampled By:	Gient	Sample Type:	
2309559-04	COC Number:		Receive Date:	05/13/2023 09:15
	Project Number:		Sampling Date:	05/11/2023 12:25
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-UST-C-20230511-D	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2309559-05	COC Number:		Receive Date:	05/13/2023 09:15
	Project Number:		Sampling Date:	05/11/2023 12:40
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-UST-D-20230511	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air
2309559-06	COC Number:		Receive Date:	05/13/2023 09:15
	Project Number:		Sampling Date:	05/11/2023 11:15
	Sampling Location:		Sample Depth:	
	Sampling Point:	AA-CT-20230511	Lab Matrix:	Air
	Sampled By:	Client	Sample Type:	Vapor or Air

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 230	09559-01 Cli	ent Sample	e Name:	AA-UST-A	AA-UST-A-20230511, 5/11/2023 12:15:00PM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		3.5	ug/m3	3.2	0.024	EPA-TO-15-SIM	ND	A01,V11	1	
Benzene		1.2	ug/m3	0.054	0.0034	EPA-TO-15-SIM	ND	A01	2	
Benzyl chloride		ND	ug/m3	0.54	0.0056	EPA-TO-15-SIM	ND	A01	2	
Carbon tetrachloride		ND	ug/m3	0.21	0.0067	EPA-TO-15-SIM	ND	A01	2	
Chlorobenzene		ND	ug/m3	0.11	0.0085	EPA-TO-15-SIM	ND	A01	2	
Chloroform		ND	ug/m3	0.054	0.0062	EPA-TO-15-SIM	ND	A01	2	
1,2-Dibromoethane		ND	ug/m3	0.21	0.015	EPA-TO-15-SIM	ND	A01	2	
1,2-Dichlorobenzene		ND	ug/m3	0.21	0.012	EPA-TO-15-SIM	ND	A01	2	
1,3-Dichlorobenzene		ND	ug/m3	0.21	0.014	EPA-TO-15-SIM	ND	A01	2	
1,4-Dichlorobenzene		ND	ug/m3	0.21	0.017	EPA-TO-15-SIM	ND	A01	2	
Dichlorodifluoromethane		2.9	ug/m3	0.16	0.017	EPA-TO-15-SIM	ND	A01	1	
I,1-Dichloroethane		ND	ug/m3	0.054	0.0044	EPA-TO-15-SIM	ND	A01	2	
,2-Dichloroethane		ND	ug/m3	0.11	0.0049	EPA-TO-15-SIM	ND	A01	2	
,1-Dichloroethene		ND	ug/m3	0.054	0.0083	EPA-TO-15-SIM	ND	A01	2	
cis-1,2-Dichloroethene		ND	ug/m3	0.054	0.0047	EPA-TO-15-SIM	ND	A01	2	
rans-1,2-Dichloroethene		ND	ug/m3	0.054	0.0080	EPA-TO-15-SIM	ND	A01	2	
rans-1,3-Dichloropropene		ND	ug/m3	0.054	0.014	EPA-TO-15-SIM	ND	A01	2	
,1-Difluoroethane		0.98	ug/m3	5.4	0.0029	EPA-TO-15-SIM	ND	J,A01	2	
Ethylbenzene		0.57	ug/m3	0.054	0.018	EPA-TO-15-SIM	ND	A01	2	
Methylene chloride		ND	ug/m3	0.21	0.0082	EPA-TO-15-SIM	ND	A01	2	
Fetrachloroethene		ND	ug/m3	0.11	0.012	EPA-TO-15-SIM	ND	A01	2	
Toluene		2.4	ug/m3	0.32	0.020	EPA-TO-15-SIM	ND	A01	1	
I,1,1-Trichloroethane		ND	ug/m3	0.11	0.0059	EPA-TO-15-SIM	ND	A01	2	
1,1,2-Trichloroethane		ND	ug/m3	0.11	0.0059	EPA-TO-15-SIM	ND	A01	2	
Trichloroethene		ND	ug/m3	0.11	0.010	EPA-TO-15-SIM	ND	A01	2	
Trichlorofluoromethane		1.4	ug/m3	0.054	0.0061	EPA-TO-15-SIM	ND	A01	2	
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.61	ug/m3	0.11	0.0083	EPA-TO-15-SIM	ND	A01	2	
/inyl chloride		ND	ug/m3	0.021	0.0049	EPA-TO-15-SIM	ND	A01	2	
o- & m-Xylenes		2.4	ug/m3	0.054	0.0088	EPA-TO-15-SIM	ND	A01	2	
o-Xylene		0.81	ug/m3	0.054	0.0047	EPA-TO-15-SIM	ND	A01	2	
Fotal Xylenes		3.2	ug/m3	0.11	0.014	EPA-TO-15-SIM	ND	A01	2	
4-Bromofluorobenzene (Surro	gate)	99.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
I-Bromofluorobenzene (Surro	gate)	112	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample I	D: 2309559-01	Client San	Client Sample Name: AA-UST-A-20230511, 5/				0511, 5/11/2023 12:15:00PM, Client			
			Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 23:25	RMK	MS-A1	3.210	B166092	EPA TO-15		
2	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 19:30	RMK	MS-A1	1.070	B166092	EPA TO-15		



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2309559-01	Client Sampl	e Name:	AA-UST-A	nt				
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		2.9	ppmv	3.2	2.9	ASTM-D1946	ND	J	1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/16/23 16:00	05/16/23 20:59	RMK	GC-A1	1.610	B166202	No Prep



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	09559-02	Client Sampl	e Name:	AA-UST-E	AA-UST-B-20230511, 5/11/2023 11:40:00AM, Client					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Acetone		4.4	ug/m3	3.3	0.025	EPA-TO-15-SIM	ND	A01,V11	1	
Benzene		1.2	ug/m3	0.056	0.0036	EPA-TO-15-SIM	ND	A01	2	
Benzyl chloride		ND	ug/m3	0.56	0.0058	EPA-TO-15-SIM	ND	A01	2	
Carbon tetrachloride		ND	ug/m3	0.22	0.0070	EPA-TO-15-SIM	ND	A01	2	
Chlorobenzene		ND	ug/m3	0.11	0.0088	EPA-TO-15-SIM	ND	A01	2	
Chloroform		ND	ug/m3	0.056	0.0064	EPA-TO-15-SIM	ND	A01	2	
,2-Dibromoethane		ND	ug/m3	0.22	0.016	EPA-TO-15-SIM	ND	A01	2	
,2-Dichlorobenzene		ND	ug/m3	0.22	0.012	EPA-TO-15-SIM	ND	A01	2	
,3-Dichlorobenzene		ND	ug/m3	0.22	0.014	EPA-TO-15-SIM	ND	A01	2	
,4-Dichlorobenzene		ND	ug/m3	0.22	0.018	EPA-TO-15-SIM	ND	A01	2	
Dichlorodifluoromethane		2.9	ug/m3	0.17	0.017	EPA-TO-15-SIM	ND	A01	1	
,1-Dichloroethane		ND	ug/m3	0.056	0.0046	EPA-TO-15-SIM	ND	A01	2	
,2-Dichloroethane		ND	ug/m3	0.11	0.0051	EPA-TO-15-SIM	ND	A01	2	
,1-Dichloroethene		ND	ug/m3	0.056	0.0087	EPA-TO-15-SIM	ND	A01	2	
is-1,2-Dichloroethene		ND	ug/m3	0.056	0.0049	EPA-TO-15-SIM	ND	A01	2	
rans-1,2-Dichloroethene		ND	ug/m3	0.056	0.0083	EPA-TO-15-SIM	ND	A01	2	
rans-1,3-Dichloropropene		ND	ug/m3	0.056	0.014	EPA-TO-15-SIM	ND	A01	2	
,1-Difluoroethane		1.9	ug/m3	5.6	0.0030	EPA-TO-15-SIM	ND	J,A01	2	
Ethylbenzene		0.71	ug/m3	0.056	0.019	EPA-TO-15-SIM	ND	A01	2	
Nethylene chloride		ND	ug/m3	0.22	0.0085	EPA-TO-15-SIM	ND	A01	2	
etrachloroethene		ND	ug/m3	0.11	0.012	EPA-TO-15-SIM	ND	A01	2	
oluene		2.9	ug/m3	0.33	0.021	EPA-TO-15-SIM	ND	A01	1	
,1,1-Trichloroethane		ND	ug/m3	0.11	0.0061	EPA-TO-15-SIM	ND	A01	2	
,1,2-Trichloroethane		ND	ug/m3	0.11	0.0061	EPA-TO-15-SIM	ND	A01	2	
richloroethene		ND	ug/m3	0.11	0.011	EPA-TO-15-SIM	ND	A01	2	
richlorofluoromethane		1.4	ug/m3	0.056	0.0063	EPA-TO-15-SIM	ND	A01	2	
,1,2-Trichloro-1,2,2-trifluoro	oethane	0.61	ug/m3	0.11	0.0087	EPA-TO-15-SIM	ND	A01	2	
/inyl chloride		ND	ug/m3	0.022	0.0051	EPA-TO-15-SIM	ND	A01	2	
o- & m-Xylenes		3.2	ug/m3	0.056	0.0091	EPA-TO-15-SIM	ND	A01	2	
o-Xylene		1.1	ug/m3	0.056	0.0049	EPA-TO-15-SIM	ND	A01	2	
otal Xylenes		4.3	ug/m3	0.11	0.014	EPA-TO-15-SIM	ND	A01	2	
-Bromofluorobenzene (Surr	ogate)	96.4	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1	
4-Bromofluorobenzene (Surro	ogate)	107	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2	

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	D: 2309559-02	Client San	nple Name:	AA-UST-B-20	230511, 5/11/20	511, 5/11/2023 11:40:00AM, Client				
			Run				QC			
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 23:59	RMK	MS-A1	3.330	B166092	EPA TO-15		
2	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 20:10	RMK	MS-A1	1.110	B166092	EPA TO-15		



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2309559-02	Client Sample Name: AA-UST-B-20230511, 5/11/2023 11:40:00AM, Client							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.3	ppmv	3.3	3.0	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/16/23 16:00	05/16/23 21:19	RMK	GC-A1	1.660	B166202	No Prep



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	09559-03	Client Sampl	e Name:	AA-UST-C	C-20230511	nt			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		5.4	ug/m3	3.2	0.024	EPA-TO-15-SIM	ND	A01,V11	1
Benzene		0.61	ug/m3	0.052	0.0034	EPA-TO-15-SIM	ND	A01	2
Benzyl chloride		ND	ug/m3	0.52	0.0055	EPA-TO-15-SIM	ND	A01	2
Carbon tetrachloride		ND	ug/m3	0.21	0.0066	EPA-TO-15-SIM	ND	A01	2
Chlorobenzene		ND	ug/m3	0.10	0.0083	EPA-TO-15-SIM	ND	A01	2
Chloroform		ND	ug/m3	0.052	0.0061	EPA-TO-15-SIM	ND	A01	2
1,2-Dibromoethane		ND	ug/m3	0.21	0.015	EPA-TO-15-SIM	ND	A01	2
1,2-Dichlorobenzene		ND	ug/m3	0.21	0.012	EPA-TO-15-SIM	ND	A01	2
1,3-Dichlorobenzene		ND	ug/m3	0.21	0.014	EPA-TO-15-SIM	ND	A01	2
1,4-Dichlorobenzene		ND	ug/m3	0.21	0.017	EPA-TO-15-SIM	ND	A01	2
Dichlorodifluoromethane		2.9	ug/m3	0.16	0.016	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane		ND	ug/m3	0.052	0.0043	EPA-TO-15-SIM	ND	A01	2
1,2-Dichloroethane		ND	ug/m3	0.10	0.0048	EPA-TO-15-SIM	ND	A01	2
1,1-Dichloroethene		ND	ug/m3	0.052	0.0082	EPA-TO-15-SIM	ND	A01	2
cis-1,2-Dichloroethene		ND	ug/m3	0.052	0.0046	EPA-TO-15-SIM	ND	A01	2
trans-1,2-Dichloroethene		ND	ug/m3	0.052	0.0079	EPA-TO-15-SIM	ND	A01	2
trans-1,3-Dichloropropene		ND	ug/m3	0.052	0.014	EPA-TO-15-SIM	ND	A01	2
1,1-Difluoroethane		0.47	ug/m3	5.2	0.0028	EPA-TO-15-SIM	ND	J,A01	2
Ethylbenzene		0.35	ug/m3	0.052	0.018	EPA-TO-15-SIM	ND	A01	2
Methylene chloride		ND	ug/m3	0.21	0.0081	EPA-TO-15-SIM	ND	A01	2
Tetrachloroethene		ND	ug/m3	0.10	0.012	EPA-TO-15-SIM	ND	A01	2
Toluene		1.7	ug/m3	0.10	0.0065	EPA-TO-15-SIM	ND	A01	2
1,1,1-Trichloroethane		ND	ug/m3	0.10	0.0058	EPA-TO-15-SIM	ND	A01	2
1,1,2-Trichloroethane		ND	ug/m3	0.10	0.0058	EPA-TO-15-SIM	ND	A01	2
Trichloroethene		ND	ug/m3	0.10	0.010	EPA-TO-15-SIM	ND	A01	2
Trichlorofluoromethane		1.4	ug/m3	0.052	0.0060	EPA-TO-15-SIM	ND	A01	2
1,1,2-Trichloro-1,2,2-trifluoro	ethane	0.62	ug/m3	0.10	0.0082	EPA-TO-15-SIM	ND	A01	2
/inyl chloride		ND	ug/m3	0.021	0.0048	EPA-TO-15-SIM	ND	A01	2
p- & m-Xylenes		1.4	ug/m3	0.052	0.0086	EPA-TO-15-SIM	ND	A01	2
o-Xylene		0.50	ug/m3	0.052	0.0046	EPA-TO-15-SIM	ND	A01	2
Total Xylenes		1.9	ug/m3	0.10	0.014	EPA-TO-15-SIM	ND	A01	2
4-Bromofluorobenzene (Surro	gate)	96.4	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1
4-Bromofluorobenzene (Surro	gate)	110	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			2

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample II	D: 2309559-03	Client San	nple Name:	230511, 5/11/20	0511, 5/11/2023 12:25:00PM, Client				
		-	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	05/15/23 13:13	05/16/23 00:33	RMK	MS-A1	3.150	B166092	EPA TO-15	
2	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 20:51	RMK	MS-A1	1.050	B166092	EPA TO-15	



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2309559-03	Client Sampl	e Name:						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.0	ppmv	3.2	2.8	ASTM-D1946	ND	J	1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/16/23 16:00	05/16/23 21:39	RMK	GC-A1	1.580	B166202	No Prep



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Acetone 3.5 ug/m3 1.1 0.083 EPA-TO-15-SMM ND AD1,V11 1 Benzer 0.65 ug/m3 0.056 0.0036 EPA-TO-15-SMM ND AD1 1 Benzyl chloride ND ug/m3 0.22 0.0076 EPA-TO-15-SMM ND AD1 1 Catoon tetrachtoride ND ug/m3 0.22 0.0076 EPA-TO-15-SMM ND AD1 1 Chloroberzene ND ug/m3 0.22 0.016 EPA-TO-15-SMM ND AD1 1 12-Dichoroberzene ND ug/m3 0.22 0.016 EPA-TO-15-SMM ND AD1 1 12-Dichoroberzene ND ug/m3 0.22 0.014 EPA-TO-15-SMM ND AD1 1 12-Dichoroberzene ND ug/m3 0.22 0.014 EPA-TO-15-SMM ND AD1 1 14-Dichoroberzene ND ug/m3 0.056 0.0045 EPA-TO-15-SMM ND <	BCL Sample ID: 2309	559-04	Client Samp	le Name:	e: AA-UST-C-20230511-D, 5/11/2023 12:25:00PM, Client					
Benzzne 0.65 ug/m3 0.055 0.0056 EPA-TO-15-SIM ND A01 1 Benzyl chloride ND ug/m3 0.56 0.0058 EPA-TO-15-SIM ND A01 1 Carlor iterzachioride ND ug/m3 0.56 0.0064 EPA-TO-15-SIM ND A01 1 Charoterzace ND ug/m3 0.22 0.016 EPA-TO-15-SIM ND A01 1 12-Dibromothane ND ug/m3 0.22 0.016 EPA-TO-15-SIM ND A01 1 12-Dibromothane ND ug/m3 0.22 0.016 EPA-TO-15-SIM ND A01 1 12-Dichorobenzene ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 12-Dichorobenzene ND ug/m3 0.056 0.068 EPA-TO-15-SIM ND A01 1 12-Dichorobenzene ND ug/m3 0.056 0.068 EPA-TO-15-SIM ND	Constituent	÷				MDL		Bias	Quals	DCN
Benzyl chloride ND ug'm3 0.56 0.0058 EPA-TO-15-SIM ND A01 1 Carbon letrachloride ND ug/m3 0.22 0.0070 EPA-TO-15-SIM ND A01 1 Chlorobenzene ND ug/m3 0.011 0.0088 EPA-TO-15-SIM ND A01 1 Chlorobenzene ND ug/m3 0.022 0.016 EPA-TO-15-SIM ND A01 1 1.2-Dichorobenzene ND ug/m3 0.22 0.014 EPA-TO-15-SIM ND A01 1 1.2-Dichorobenzene ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 1.2-Dichorobenzene ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 1.2-Dichorobenzene ND ug/m3 0.056 0.0048 EPA-TO-15-SIM ND A01 1 1.4-Dichorobenzene ND ug/m3 0.056 0.0049 EPA-TO-15-SIM <t< th=""><th>Acetone</th><th></th><th>3.5</th><th>ug/m3</th><th>1.1</th><th>0.0083</th><th>EPA-TO-15-SIM</th><th>ND</th><th>A01,V11</th><th>1</th></t<>	Acetone		3.5	ug/m3	1.1	0.0083	EPA-TO-15-SIM	ND	A01,V11	1
Carbon tetrachloride ND ug/m3 0.22 0.0070 EPA-T0-15-SIM ND A01 1 Chlorobenzene ND ug/m3 0.11 0.088 EPA-T0-15-SIM ND A01 1 Chlorobenzene ND ug/m3 0.22 0.016 EPA-T0-15-SIM ND A01 1 1,2-Dichorobenzene ND ug/m3 0.22 0.016 EPA-T0-15-SIM ND A01 1 1,2-Dichorobenzene ND ug/m3 0.22 0.018 EPA-T0-15-SIM ND A01 1 1,4-Dichorobenzene ND ug/m3 0.22 0.018 EPA-T0-15-SIM ND A01 1 1,4-Dichorobenzene ND ug/m3 0.056 0.0046 EPA-T0-15-SIM ND A01 1 1,1-Dichorobenzene ND ug/m3 0.056 0.0046 EPA-T0-15-SIM ND A01 1 1,1-Dichorobenzene ND ug/m3 0.056 0.0049 EPA-T0-15-SIM <	Benzene		0.65	ug/m3	0.056	0.0036	EPA-TO-15-SIM	ND	A01	1
Chlorobenzene ND ug/m3 0.11 0.0088 EPA-TD-15SIM ND A01 1 Chlorobrrm ND ug/m3 0.056 0.0064 EPA-TD-15SIM ND A01 1 1.2-Dichorobenzene ND ug/m3 0.22 0.016 EPA-TD-15SIM ND A01 1 1.2-Dichorobenzene ND ug/m3 0.22 0.014 EPA-TD-15SIM ND A01 1 1.3-Dichorobenzene ND ug/m3 0.22 0.018 EPA-TD-15SIM ND A01 1 1.4-Dichorobenzene ND ug/m3 0.056 0.0065 EPA-TD-15SIM ND A01 1 1.1-Dichorobenzene ND ug/m3 0.056 0.0067 EPA-TD-15SIM ND A01 1 1.1-Dichorobenzene ND ug/m3 0.056 0.0087 EPA-TD-15SIM ND A01 1 1.1-Dichorobenzene ND ug/m3 0.056 0.0081 EPA-TD-15SIM ND	Benzyl chloride		ND	ug/m3	0.56	0.0058	EPA-TO-15-SIM	ND	A01	1
Dickloroform ND ug/m3 0.056 0.0064 EPA-TO-15.SIM ND A01 1 1.2-Dibromoethane ND ug/m3 0.22 0.016 EPA-TO-15.SIM ND A01 1 1.2-Dibromoethane ND ug/m3 0.22 0.012 EPA-TO-15.SIM ND A01 1 1.3-Dichlorobenzene ND ug/m3 0.22 0.018 EPA-TO-15.SIM ND A01 1 1.4-Dichlorobenzene ND ug/m3 0.026 0.0068 EPA-TO-15.SIM ND A01 1 1.4-Dichlorobethane ND ug/m3 0.056 0.0068 EPA-TO-15.SIM ND A01 1 1.1-Dichlorobethane ND ug/m3 0.056 0.0097 EPA-TO-15.SIM ND A01 1 1.1-Dichloroethane ND ug/m3 0.056 0.0097 EPA-TO-15.SIM ND A01 1 1.1-Dichloroethane ND ug/m3 0.056 0.0014 EPA-TO-15.SIM	Carbon tetrachloride		ND	ug/m3	0.22	0.0070	EPA-TO-15-SIM	ND	A01	1
1.2.Dibromoethane ND ug/m3 0.22 0.016 EPA-TO-15-SIM ND A01 1 1.2.Dibriomoethane ND ug/m3 0.22 0.012 EPA-TO-15-SIM ND A01 1 1.3.Dichlorobenzene ND ug/m3 0.22 0.014 EPA-TO-15-SIM ND A01 1 1.4.Dichlorobenzene ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 1.4.Dichlorobenzene ND ug/m3 0.056 0.0058 EPA-TO-15-SIM ND A01 1 1.1.Dichlorobenzene ND ug/m3 0.056 0.0046 EPA-TO-15-SIM ND A01 1 1.2.Dichloroethane ND ug/m3 0.056 0.0047 EPA-TO-15-SIM ND A01 1 1.4.Dichloroethene ND ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 1.5.Dichloroethene ND ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 1.4.Dichloroethene ND ug/m3<	Chlorobenzene		ND	ug/m3	0.11	0.0088	EPA-TO-15-SIM	ND	A01	1
1.2.Dichlorobenzene ND ug/m3 0.22 0.012 EPA-TO-15-SIM ND A01 1 1.3.Dichlorobenzene ND ug/m3 0.22 0.014 EPA-TO-15-SIM ND A01 1 1.4.Dichlorobenzene ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 1.4.Dichlorobenzene ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 1.1.Dichlorobenzene ND ug/m3 0.056 0.0046 EPA-TO-15-SIM ND A01 1 1.2.Dichlorobenzene ND ug/m3 0.0156 0.0047 EPA-TO-15-SIM ND A01 1 1.2.Dichlorobenzene ND ug/m3 0.056 0.0048 EPA-TO-15-SIM ND A01 1 1.2.Dichlorobenzene ND ug/m3 0.056 0.0043 EPA-TO-15-SIM ND A01 1 1.1.Dichlorobenzene ND ug/m3 0.566 0.0043 EPA-TO-15-SIM ND A01 1 1.1.1.Dichlorobenzene ND	Chloroform		ND	ug/m3	0.056	0.0064	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.22 0.014 EPA-TO-15-SIM ND A01 1 1.4-Dichlorobenzene ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 1.4-Dichlorobenzene 2.8 ug/m3 0.026 0.0088 EPA-TO-15-SIM ND A01 1 Dichlorodifluoromethane ND ug/m3 0.016 EPA-TO-15-SIM ND A01 1 1.1-Dichloroethane ND ug/m3 0.056 0.0087 EPA-TO-15-SIM ND A01 1 1.2-Dichloroethene ND ug/m3 0.056 0.0087 EPA-TO-15-SIM ND A01 1 1.1-Dichloroethene ND ug/m3 0.056 0.0083 EPA-TO-15-SIM ND A01 1 1.1-Dichloroethene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 1.1-Difloroethane 0.47 ug/m3 0.056 0.019 EPA-TO-15-SIM ND A01	1,2-Dibromoethane		ND	ug/m3	0.22	0.016	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.22 0.018 EPA-TO-15-SIM ND A01 1 Dichlorodifluoromethane 2.8 ug/m3 0.056 0.0058 EPA-TO-15-SIM ND A01 1 Li,1-Dichlorodifluoromethane ND ug/m3 0.056 0.0046 EPA-TO-15-SIM ND A01 1 1,2-Dichloroethane ND ug/m3 0.11 0.0051 EPA-TO-15-SIM ND A01 1 1,1-Dichloroethene ND ug/m3 0.056 0.0087 EPA-TO-15-SIM ND A01 1 1,1-Dichloroethene ND ug/m3 0.056 0.0083 EPA-TO-15-SIM ND A01 1 1,1-Dichloroethene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 1,1-Difloroethane ND ug/m3 0.056 0.019 EPA-TO-15-SIM ND A01 1 1,1-Difloroethane 0.44 ug/m3 0.019 EPA-TO-15-SIM ND A01 <td>1,2-Dichlorobenzene</td> <td></td> <td>ND</td> <td>ug/m3</td> <td>0.22</td> <td>0.012</td> <td>EPA-TO-15-SIM</td> <td>ND</td> <td>A01</td> <td>1</td>	1,2-Dichlorobenzene		ND	ug/m3	0.22	0.012	EPA-TO-15-SIM	ND	A01	1
Dichlorodifluoromethane 2.8 ug/m3 0.056 0.0056 FPA-TO-15-SIM ND A01 1 1,1-Dichlorodifluoromethane ND ug/m3 0.056 0.0066 EPA-TO-15-SIM ND A01 1 1,2-Dichlorodifluoromethane ND ug/m3 0.056 0.0067 EPA-TO-15-SIM ND A01 1 1,1-Dichlorodifuoromethane ND ug/m3 0.056 0.0097 EPA-TO-15-SIM ND A01 1 1,1-Dichlorodifuoromethane ND ug/m3 0.056 0.0097 EPA-TO-15-SIM ND A01 1 1,1-Dichlorodifuoromethane ND ug/m3 0.056 0.0033 EPA-TO-15-SIM ND A01 1 trans-1,2-Dichlorodifuoroppene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 1,1-Diffuoroethane 0.47 ug/m3 0.056 0.019 EPA-TO-15-SIM ND A01 1 1,1-Diffuoroethane 0.44 ug/m3	1,3-Dichlorobenzene		ND	ug/m3	0.22	0.014	EPA-TO-15-SIM	ND	A01	1
1,1-Dickloroethane ND ug/m3 0.056 0.0046 EPA-TO-15-SIM ND A01 1 1,1-Dickloroethane ND ug/m3 0.11 0.0051 EPA-TO-15-SIM ND A01 1 1,1-Dickloroethane ND ug/m3 0.056 0.0097 EPA-TO-15-SIM ND A01 1 1,1-Dickloroethane ND ug/m3 0.056 0.0097 EPA-TO-15-SIM ND A01 1 1,1-Dickloroethane ND ug/m3 0.056 0.0093 EPA-TO-15-SIM ND A01 1 trans-1,2-Dickloroethane ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 trans-1,2-Dickloroethane 0.47 ug/m3 5.6 0.0030 EPA-TO-15-SIM ND A01 1 trans-1,2-Dickloroethane 0.47 ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 trachoroethane ND ug/m3 0.11 0.0012 <	1,4-Dichlorobenzene		ND	ug/m3	0.22	0.018	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.11 0.0051 EPA-TO-15-SIM ND A01 1 1.2-Dichloroethane ND ug/m3 0.056 0.0087 EPA-TO-15-SIM ND A01 1 1.1-Dichloroethane ND ug/m3 0.056 0.0087 EPA-TO-15-SIM ND A01 1 1.1-Dichloroethane ND ug/m3 0.056 0.0083 EPA-TO-15-SIM ND A01 1 trans-1.2-Dichloroethane ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 trans-1.3-Dichloroethane ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 trans-1.3-Dichloroethane 0.47 ug/m3 0.56 0.019 EPA-TO-15-SIM ND A01 1 trans-1.3-Dichloroethane 0.47 ug/m3 0.56 0.019 EPA-TO-15-SIM ND A01 1 trans-1.1-Dichloroethane 0.47 ug/m3 0.11 0.012 EPA-TO-15-SIM	Dichlorodifluoromethane		2.8	ug/m3	0.056	0.0058	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.056 0.0087 EPA-TO-15-SIM ND A01 1 1.1-Dichloroethene ND ug/m3 0.056 0.0087 EPA-TO-15-SIM ND A01 1 trans-1,2-Dichloroethene ND ug/m3 0.056 0.0083 EPA-TO-15-SIM ND A01 1 trans-1,2-Dichloroethene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 trans-1,3-Dichloroptopene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 trans-1,3-Dichloroptopene 0.47 ug/m3 0.56 0.019 EPA-TO-15-SIM ND A01 1 trans-1,3-Dichloroethane 0.34 ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 trans-to-indechene ND ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 trans-to-indechene ND ug/m3 0.11 0.016 EPA-TO-15-SIM	1,1-Dichloroethane		ND	ug/m3	0.056	0.0046	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 trans-1,2-Dichloroethene ND ug/m3 0.056 0.0083 EPA-TO-15-SIM ND A01 1 trans-1,3-Dichloropropene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 trans-1,3-Dichloropropene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 trans-1,3-Dichloropropene 0.47 ug/m3 5.6 0.0030 EPA-TO-15-SIM ND A01 1 trans-tr	1,2-Dichloroethane		ND	ug/m3	0.11	0.0051	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.056 0.0083 EPA-TO-15-SIM ND A01 1 trans-1,3-Dichloropropene ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 1,1-Difluoroethane 0.47 ug/m3 5.6 0.0030 EPA-TO-15-SIM ND A01 1 Ethylbenzene 0.34 ug/m3 0.056 0.019 EPA-TO-15-SIM ND A01 1 Methylene chloride ND ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 Tetrachloroethane ND ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 Toluene 1.6 ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 1,1,1-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 </td <td>1,1-Dichloroethene</td> <td></td> <td>ND</td> <td>ug/m3</td> <td>0.056</td> <td>0.0087</td> <td>EPA-TO-15-SIM</td> <td>ND</td> <td>A01</td> <td>1</td>	1,1-Dichloroethene		ND	ug/m3	0.056	0.0087	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.056 0.014 EPA-TO-15-SIM ND A01 1 1,1-Diffuoroethane 0.47 ug/m3 5.6 0.0030 EPA-TO-15-SIM ND J,A01 1 Ethylbenzene 0.34 ug/m3 0.056 0.019 EPA-TO-15-SIM ND A01 1 Methylene chloride ND ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 Tetrachloroethene ND ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 Toluene ND ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.011 EPA-TO-15-SIM ND A01	cis-1,2-Dichloroethene		ND	ug/m3	0.056	0.0049	EPA-TO-15-SIM	ND	A01	1
1,1-Diffuoroethane 0.47 ug/m3 5.6 0.0030 EPA-TO-15-SIM ND J,A01 1 Ethylbenzene 0.34 ug/m3 0.056 0.019 EPA-TO-15-SIM ND A01 1 Methylene chloride ND ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 Tetrachloroethene ND ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 Toluene 1.6 ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane 0.62 ug/m3 0.01 EPA-TO-15-SIM ND	trans-1,2-Dichloroethene		ND	ug/m3	0.056	0.0083	EPA-TO-15-SIM	ND	A01	1
Ethylbenzene 0.34 ug/m3 0.056 0.019 EPA-TO-15-SIM ND A01 1 Methylene chloride ND ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 Tetrachloroethene ND ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 Toluene 1.6 ug/m3 0.11 0.0069 EPA-TO-15-SIM ND A01 1 1,1,1-Trichloroethane ND ug/m3 0.11 0.0069 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0083 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane 0.62 ug/m3 0.11 0.0087 EPA-TO-15-SIM <td>trans-1,3-Dichloropropene</td> <td></td> <td>ND</td> <td>ug/m3</td> <td>0.056</td> <td>0.014</td> <td>EPA-TO-15-SIM</td> <td>ND</td> <td>A01</td> <td>1</td>	trans-1,3-Dichloropropene		ND	ug/m3	0.056	0.014	EPA-TO-15-SIM	ND	A01	1
ND ug/m3 0.22 0.0085 EPA-TO-15-SIM ND A01 1 Tetrachloroethene ND ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 Toluene 1.6 ug/m3 0.11 0.0069 EPA-TO-15-SIM ND A01 1 1,1,1-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.011 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane 1.4 ug/m3 0.056 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.012 0.0051 EPA-TO-15-SIM <	1,1-Difluoroethane		0.47	ug/m3	5.6	0.0030	EPA-TO-15-SIM	ND	J,A01	1
Tetrachloroethene ND ug/m3 0.11 0.012 EPA-TO-15-SIM ND A01 1 Toluene 1.6 ug/m3 0.11 0.0069 EPA-TO-15-SIM ND A01 1 1,1,1-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.011 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.0163 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.011 0.0087 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.022 <th0< td=""><td>Ethylbenzene</td><td></td><td>0.34</td><td>ug/m3</td><td>0.056</td><td>0.019</td><td>EPA-TO-15-SIM</td><td>ND</td><td>A01</td><td>1</td></th0<>	Ethylbenzene		0.34	ug/m3	0.056	0.019	EPA-TO-15-SIM	ND	A01	1
Toluene 1.6 ug/m3 0.11 0.0069 EPA-TO-15-SIM ND A01 1 1,1,1-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 Trichloroethane ND ug/m3 0.11 0.011 EPA-TO-15-SIM ND A01 1 Trichlorofluoromethane 1.4 ug/m3 0.056 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.01 0.0087 EPA-TO-15-SIM ND A01 1 Vinyl chloride ND ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 o-Xylene 1.4 ug/m3 0.056 0.0091 EPA-TO-	Methylene chloride		ND	ug/m3	0.22	0.0085	EPA-TO-15-SIM	ND	A01	1
Interview ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 Trichloroethane ND ug/m3 0.11 0.011 EPA-TO-15-SIM ND A01 1 Trichloroethane 1.4 ug/m3 0.056 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.11 0.0087 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 Vinyl chloride ND ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 o-Xylene 0.47 ug/m3 0.056 0.0049	Tetrachloroethene		ND	ug/m3	0.11	0.012	EPA-TO-15-SIM	ND	A01	1
1,1,2-Trichloroethane ND ug/m3 0.11 0.0061 EPA-TO-15-SIM ND A01 1 Trichloroethane ND ug/m3 0.11 0.011 EPA-TO-15-SIM ND A01 1 Trichloroethane 1.4 ug/m3 0.056 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.11 0.0087 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.011 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 vinyl chloride ND ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 p- & m-Xylenes 1.4 ug/m3 0.056 0.0091 EPA-TO-15-SIM ND A01 1 o-Xylene 0.47 ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 Total Xylenes 1.8<	Toluene		1.6	ug/m3	0.11	0.0069	EPA-TO-15-SIM	ND	A01	1
Trichloroethene ND ug/m3 0.11 0.011 EPA-TO-15-SIM ND A01 1 Trichlorofluoromethane 1.4 ug/m3 0.056 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.11 0.0087 EPA-TO-15-SIM ND A01 1 Vinyl chloride ND ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 p- & m-Xylenes 1.4 ug/m3 0.026 0.0091 EPA-TO-15-SIM ND A01 1 o-Xylene 0.47 ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 Total Xylenes 1.8 ug/m3 0.11 0.014 EPA-TO-15-SIM ND A01 1	1,1,1-Trichloroethane		ND	ug/m3	0.11	0.0061	EPA-TO-15-SIM	ND	A01	1
Trichlorofluoromethane 1.4 ug/m3 0.056 0.0063 EPA-TO-15-SIM ND A01 1 1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.11 0.0087 EPA-TO-15-SIM ND A01 1 Vinyl chloride ND ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 p- & m-Xylenes 1.4 ug/m3 0.056 0.0091 EPA-TO-15-SIM ND A01 1 o-Xylene 0.47 ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 Total Xylenes 1.8 ug/m3 0.11 0.014 EPA-TO-15-SIM ND A01 1	1,1,2-Trichloroethane		ND	ug/m3	0.11	0.0061	EPA-TO-15-SIM	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane 0.62 ug/m3 0.11 0.0087 EPA-TO-15-SIM ND A01 1 Vinyl chloride ND ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 p- & m-Xylenes 1.4 ug/m3 0.056 0.0091 EPA-TO-15-SIM ND A01 1 o-Xylene 0.47 ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 Total Xylenes 1.8 ug/m3 0.11 0.014 EPA-TO-15-SIM ND A01 1	Trichloroethene		ND	ug/m3	0.11	0.011	EPA-TO-15-SIM	ND	A01	1
Vinyl chloride ND ug/m3 0.022 0.0051 EPA-TO-15-SIM ND A01 1 p- & m-Xylenes 1.4 ug/m3 0.056 0.0091 EPA-TO-15-SIM ND A01 1 o-Xylene 0.47 ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 Total Xylenes 1.8 ug/m3 0.11 0.014 EPA-TO-15-SIM ND A01 1	Trichlorofluoromethane		1.4	ug/m3	0.056	0.0063	EPA-TO-15-SIM	ND	A01	1
p- & m-Xylenes 1.4 ug/m3 0.056 0.0091 EPA-TO-15-SIM ND A01 1 o-Xylene 0.47 ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 Total Xylenes 1.8 ug/m3 0.11 0.014 EPA-TO-15-SIM ND A01 1	1,1,2-Trichloro-1,2,2-trifluoroet	hane	0.62	ug/m3	0.11	0.0087	EPA-TO-15-SIM	ND	A01	1
o-Xylene 0.47 ug/m3 0.056 0.0049 EPA-TO-15-SIM ND A01 1 Total Xylenes 1.8 ug/m3 0.11 0.014 EPA-TO-15-SIM ND A01 1	Vinyl chloride		ND	ug/m3	0.022	0.0051	EPA-TO-15-SIM	ND	A01	1
Total Xylenes 1.8 ug/m3 0.11 0.014 EPA-TO-15-SIM ND A01 1	p- & m-Xylenes		1.4	ug/m3	0.056	0.0091	EPA-TO-15-SIM	ND	A01	1
	o-Xylene		0.47	ug/m3	0.056	0.0049	EPA-TO-15-SIM	ND	A01	1
4-Bromofluorobenzene (Surrogate) 105 % 50 - 150 (LCL - UCL) EPA-TO-15-SIM 1	Total Xylenes		1.8	ug/m3	0.11	0.014	EPA-TO-15-SIM	ND	A01	1
	4-Bromofluorobenzene (Surroga	ate)	105	%	50 - 150 (LC	CL - UCL)	EPA-TO-15-SIM			1

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Reported:05/17/2023 18:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2309559-04	Client San	Client Sample Name: AA-UST-C-20230511-D, 5/11/2023 12:25:00PM, Client						
			Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 21:31	RMK	MS-A1	1.110	B166092	EPA TO-15	

DCN = Data Continuation Number

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2309559-04	Client Sampl	e Name:	AA-UST-C-20230511-D, 5/11/2023 12:25:00PM, Client						
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Methane (CH4)		3.3	ppmv	3.3	3.0	ASTM-D1946	ND		1	

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/16/23 16:00	05/16/23 22:00	RMK	GC-A1	1.660	B166202	No Prep



Reported:05/17/2023 18:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 23	09559-05	Client Sampl	e Name:	AA-UST-E	0-20230511	nt			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		2.8	ug/m3	1.1	0.0085	EPA-TO-15-SIM	ND	A01,V11	1
Benzene		0.66	ug/m3	0.056	0.0036	EPA-TO-15-SIM	ND	A01	1
Benzyl chloride		ND	ug/m3	0.56	0.0059	EPA-TO-15-SIM	ND	A01	1
Carbon tetrachloride		ND	ug/m3	0.23	0.0071	EPA-TO-15-SIM	ND	A01	1
Chlorobenzene		ND	ug/m3	0.11	0.0089	EPA-TO-15-SIM	ND	A01	1
Chloroform		ND	ug/m3	0.056	0.0066	EPA-TO-15-SIM	ND	A01	1
1,2-Dibromoethane		ND	ug/m3	0.23	0.016	EPA-TO-15-SIM	ND	A01	1
,2-Dichlorobenzene		ND	ug/m3	0.23	0.012	EPA-TO-15-SIM	ND	A01	1
,3-Dichlorobenzene		ND	ug/m3	0.23	0.015	EPA-TO-15-SIM	ND	A01	1
1,4-Dichlorobenzene		ND	ug/m3	0.23	0.018	EPA-TO-15-SIM	ND	A01	1
Dichlorodifluoromethane		2.8	ug/m3	0.056	0.0059	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane		ND	ug/m3	0.056	0.0046	EPA-TO-15-SIM	ND	A01	1
,2-Dichloroethane		ND	ug/m3	0.11	0.0052	EPA-TO-15-SIM	ND	A01	1
,1-Dichloroethene		ND	ug/m3	0.056	0.0088	EPA-TO-15-SIM	ND	A01	1
sis-1,2-Dichloroethene		ND	ug/m3	0.056	0.0050	EPA-TO-15-SIM	ND	A01	1
rans-1,2-Dichloroethene		ND	ug/m3	0.056	0.0085	EPA-TO-15-SIM	ND	A01	1
rans-1,3-Dichloropropene		ND	ug/m3	0.056	0.015	EPA-TO-15-SIM	ND	A01	1
,1-Difluoroethane		0.42	ug/m3	5.6	0.0031	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene		0.31	ug/m3	0.056	0.019	EPA-TO-15-SIM	ND	A01	1
Nethylene chloride		ND	ug/m3	0.23	0.0087	EPA-TO-15-SIM	ND	A01	1
etrachloroethene		ND	ug/m3	0.11	0.012	EPA-TO-15-SIM	ND	A01	1
Toluene		1.5	ug/m3	0.11	0.0070	EPA-TO-15-SIM	ND	A01	1
1,1,1-Trichloroethane		ND	ug/m3	0.11	0.0062	EPA-TO-15-SIM	ND	A01	1
,1,2-Trichloroethane		ND	ug/m3	0.11	0.0062	EPA-TO-15-SIM	ND	A01	1
Trichloroethene		ND	ug/m3	0.11	0.011	EPA-TO-15-SIM	ND	A01	1
Frichlorofluoromethane		1.4	ug/m3	0.056	0.0064	EPA-TO-15-SIM	ND	A01	1
,1,2-Trichloro-1,2,2-trifluoro	ethane	0.62	ug/m3	0.11	0.0088	EPA-TO-15-SIM	ND	A01	1
/inyl chloride		ND	ug/m3	0.023	0.0052	EPA-TO-15-SIM	ND	A01	1
o- & m-Xylenes		1.2	ug/m3	0.056	0.0093	EPA-TO-15-SIM	ND	A01	1
o-Xylene		0.43	ug/m3	0.056	0.0050	EPA-TO-15-SIM	ND	A01	1
fotal Xylenes		1.6	ug/m3	0.11	0.015	EPA-TO-15-SIM	ND	A01	1
I-Bromofluorobenzene (Surro	ogate)	112	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1

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Reported:05/17/2023 18:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2309559-05	Client San	Client Sample Name: AA-UST-D-20230511, 5/11/2023 12:40:00PM, Client						
		/	Run				QC		
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 22:11	RMK	MS-A1	1.130	B166092	EPA TO-15	

DCN = Data Continuation Number

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2309559-05	Client Sampl	e Name:	AA-UST-E	nt				
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		3.5	ppmv	3.2	2.9	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/16/23 16:00	05/16/23 22:20	RMK	GC-A1	1.610	B166202	No Prep



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID: 2	309559-06	Client Sampl	e Name:	AA-CT-20	230511, 5/	11/2023 11:15:00	AM, Client		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Acetone		2.4	ug/m3	1.1	0.0082	EPA-TO-15-SIM	ND	A01,V11	1
Benzene		0.59	ug/m3	0.055	0.0035	EPA-TO-15-SIM	ND	A01	1
Benzyl chloride		ND	ug/m3	0.55	0.0057	EPA-TO-15-SIM	ND	A01	1
Carbon tetrachloride		ND	ug/m3	0.22	0.0069	EPA-TO-15-SIM	ND	A01	1
Chlorobenzene		ND	ug/m3	0.11	0.0087	EPA-TO-15-SIM	ND	A01	1
Chloroform		ND	ug/m3	0.055	0.0064	EPA-TO-15-SIM	ND	A01	1
1,2-Dibromoethane		ND	ug/m3	0.22	0.015	EPA-TO-15-SIM	ND	A01	1
1,2-Dichlorobenzene		ND	ug/m3	0.22	0.012	EPA-TO-15-SIM	ND	A01	1
1,3-Dichlorobenzene		ND	ug/m3	0.22	0.014	EPA-TO-15-SIM	ND	A01	1
1,4-Dichlorobenzene		ND	ug/m3	0.22	0.018	EPA-TO-15-SIM	ND	A01	1
Dichlorodifluoromethane		2.7	ug/m3	0.055	0.0057	EPA-TO-15-SIM	ND	A01	1
1,1-Dichloroethane		ND	ug/m3	0.055	0.0045	EPA-TO-15-SIM	ND	A01	1
,2-Dichloroethane		ND	ug/m3	0.11	0.0051	EPA-TO-15-SIM	ND	A01	1
,1-Dichloroethene		ND	ug/m3	0.055	0.0086	EPA-TO-15-SIM	ND	A01	1
sis-1,2-Dichloroethene		ND	ug/m3	0.055	0.0048	EPA-TO-15-SIM	ND	A01	1
rans-1,2-Dichloroethene		ND	ug/m3	0.055	0.0082	EPA-TO-15-SIM	ND	A01	1
rans-1,3-Dichloropropene		ND	ug/m3	0.055	0.014	EPA-TO-15-SIM	ND	A01	1
I,1-Difluoroethane		0.47	ug/m3	5.5	0.0030	EPA-TO-15-SIM	ND	J,A01	1
Ethylbenzene		0.26	ug/m3	0.055	0.019	EPA-TO-15-SIM	ND	A01	1
Methylene chloride		ND	ug/m3	0.22	0.0085	EPA-TO-15-SIM	ND	A01	1
etrachloroethene		ND	ug/m3	0.11	0.012	EPA-TO-15-SIM	ND	A01	1
Toluene		1.1	ug/m3	0.11	0.0068	EPA-TO-15-SIM	ND	A01	1
,1,1-Trichloroethane		ND	ug/m3	0.11	0.0060	EPA-TO-15-SIM	ND	A01	1
,1,2-Trichloroethane		ND	ug/m3	0.11	0.0060	EPA-TO-15-SIM	ND	A01	1
Trichloroethene		ND	ug/m3	0.11	0.010	EPA-TO-15-SIM	ND	A01	1
Frichlorofluoromethane		1.4	ug/m3	0.055	0.0063	EPA-TO-15-SIM	ND	A01	1
I,1,2-Trichloro-1,2,2-trifluo	roethane	0.61	ug/m3	0.11	0.0086	EPA-TO-15-SIM	ND	A01	1
/inyl chloride		ND	ug/m3	0.022	0.0051	EPA-TO-15-SIM	ND	A01	1
o- & m-Xylenes		0.94	ug/m3	0.055	0.0090	EPA-TO-15-SIM	ND	A01	1
o-Xylene		0.33	ug/m3	0.055	0.0048	EPA-TO-15-SIM	ND	A01	1
fotal Xylenes		1.3	ug/m3	0.11	0.014	EPA-TO-15-SIM	ND	A01	1
-Bromofluorobenzene (Su	rogate)	99.7	%	50 - 150 (LC	L - UCL)	EPA-TO-15-SIM			1

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Reported:05/17/2023 18:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

BCL Sample ID	: 2309559-06	Client Sample Name: AA-CT-20230511, 5/11/2023 11:15:00AM, Client						
			Run				QC	
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-TO-15-SIM	05/15/23 13:13	05/15/23 22:51	RMK	MS-A1	1.100	B166092	EPA TO-15

DCN = Data Continuation Number

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

BCL Sample ID:	2309559-06	Client Sampl	e Name:	AA-CT-20	230511, 5/	11/2023 11:15:00			
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Methane (CH4)		4.0	ppmv	3.2	2.9	ASTM-D1946	ND		1

			Run					
DCN	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	Prep Method
1	ASTM-D1946	05/16/23 16:00	05/16/23 22:40	RMK	GC-A1	1.610	B166202	No Prep



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B166092							
Acetone	B166092-BLK1	ND	ug/m3	1.0	0.0075		1
Benzene	B166092-BLK1	ND	ug/m3	0.050	0.0032		1
Benzyl chloride	B166092-BLK1	ND	ug/m3	0.50	0.0052		1
Carbon tetrachloride	B166092-BLK1	ND	ug/m3	0.20	0.0063		1
Chlorobenzene	B166092-BLK1	ND	ug/m3	0.10	0.0079		1
Chloroform	B166092-BLK1	ND	ug/m3	0.050	0.0058		1
1,2-Dibromoethane	B166092-BLK1	ND	ug/m3	0.20	0.014		1
1,2-Dichlorobenzene	B166092-BLK1	ND	ug/m3	0.20	0.011		1
1,3-Dichlorobenzene	B166092-BLK1	ND	ug/m3	0.20	0.013		1
1,4-Dichlorobenzene	B166092-BLK1	ND	ug/m3	0.20	0.016		1
Dichlorodifluoromethane	B166092-BLK1	ND	ug/m3	0.050	0.0052		1
1,1-Dichloroethane	B166092-BLK1	ND	ug/m3	0.050	0.0041		1
1,2-Dichloroethane	B166092-BLK1	ND	ug/m3	0.10	0.0046		1
1,1-Dichloroethene	B166092-BLK1	ND	ug/m3	0.050	0.0078		1
cis-1,2-Dichloroethene	B166092-BLK1	ND	ug/m3	0.050	0.0044		1
trans-1,2-Dichloroethene	B166092-BLK1	ND	ug/m3	0.050	0.0075		1
trans-1,3-Dichloropropene	B166092-BLK1	ND	ug/m3	0.050	0.013		1
1,1-Difluoroethane	B166092-BLK1	ND	ug/m3	5.0	0.0027		1
Ethylbenzene	B166092-BLK1	ND	ug/m3	0.050	0.017		1
Methylene chloride	B166092-BLK1	ND	ug/m3	0.20	0.0077		1
Tetrachloroethene	B166092-BLK1	ND	ug/m3	0.10	0.011		1
Toluene	B166092-BLK1	ND	ug/m3	0.10	0.0062		1
1,1,1-Trichloroethane	B166092-BLK1	ND	ug/m3	0.10	0.0055		1
1,1,2-Trichloroethane	B166092-BLK1	ND	ug/m3	0.10	0.0055		1
Trichloroethene	B166092-BLK1	ND	ug/m3	0.10	0.0095		1
Trichlorofluoromethane	B166092-BLK1	ND	ug/m3	0.050	0.0057		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B166092-BLK1	ND	ug/m3	0.10	0.0078		1
Vinyl chloride	B166092-BLK1	ND	ug/m3	0.020	0.0046		1
p- & m-Xylenes	B166092-BLK1	ND	ug/m3	0.050	0.0082		1
o-Xylene	B166092-BLK1	ND	ug/m3	0.050	0.0044		1
Total Xylenes	B166092-BLK1	ND	ug/m3	0.10	0.013		1
4-Bromofluorobenzene (Surrogate)	B166092-BLK1	80.1	%	50 - 15	0 (LCL - UCL)		1

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Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1
1	B166092-BLK1	PB	EPA-TO-15-SIM	05/15/23	05/15/23 18:13	RMK	MS-A1	1

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Report ID: 1001425488



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

	• •	_	•				•	0	lug 14		
				• •		_		Control I	limits	Lab	
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Quals	Run #
QC Batch ID: B166092						-		-			
Benzene	 B166092-BS1	LCS	0.30120	0.31948	ug/m3	94.3		70 - 130			1
	B166092-BSD1	LCSD	0.30596	0.31948	ug/m3	95.8	1.6	70 - 130	30		2
Benzyl chloride	B166092-BS1	LCS	0.56261	0.51772	ug/m3	109		70 - 130			1
	B166092-BSD1	LCSD	0.57700	0.51772	ug/m3	111	2.5	70 - 130	30		2
Carbon tetrachloride	B166092-BS1	LCS	0.57761	0.62913	ug/m3	91.8		70 - 130			1
	B166092-BSD1	LCSD	0.59239	0.62913	ug/m3	94.2	2.5	70 - 130	30		2
Chlorobenzene	B166092-BS1	LCS	0.45060	0.46036	ug/m3	97.9		70 - 130			1
	B166092-BSD1	LCSD	0.45313	0.46036	ug/m3	98.4	0.6	70 - 130	30		2
Chloroform	B166092-BS1	LCS	0.47531	0.48825	ug/m3	97.4		70 - 130			1
	B166092-BSD1	LCSD	0.48484	0.48825	ug/m3	99.3	2.0	70 - 130	30		2
1,2-Dibromoethane	B166092-BS1	LCS	0.73692	0.76835	ug/m3	95.9		70 - 130			1
	B166092-BSD1	LCSD	0.73907	0.76835	ug/m3	96.2	0.3	70 - 130	30		2
1,2-Dichlorobenzene	B166092-BS1	LCS	0.64134	0.60124	ug/m3	107		70 - 130			1
	B166092-BSD1	LCSD	0.64645	0.60124	ug/m3	108	0.8	70 - 130	30		2
1,3-Dichlorobenzene	B166092-BS1	LCS	0.62913	0.60124	ug/m3	105		70 - 130			1
	B166092-BSD1	LCSD	0.64783	0.60124	ug/m3	108	2.9	70 - 130	30		2
1,4-Dichlorobenzene	B166092-BS1	LCS	0.71276	0.60124	ug/m3	119		70 - 130			1
	B166092-BSD1	LCSD	0.71204	0.60124	ug/m3	118	0.1	70 - 130	30		2
1,1-Dichloroethane	B166092-BS1	LCS	0.39292	0.40474	ug/m3	97.1		70 - 130			1
	B166092-BSD1	LCSD	0.39762	0.40474	ug/m3	98.2	1.2	70 - 130	30		2
1,2-Dichloroethane	B166092-BS1	LCS	0.39049	0.40474	ug/m3	96.5		70 - 130			1
	B166092-BSD1	LCSD	0.39159	0.40474	ug/m3	96.7	0.3	70 - 130	30		2
1,1-Dichloroethene	B166092-BS1	LCS	0.38064	0.39649	ug/m3	96.0		70 - 130			1
	B166092-BSD1	LCSD	0.39324	0.39649	ug/m3	99.2	3.3	70 - 130	30		2
cis-1,2-Dichloroethene	B166092-BS1	LCS	0.37568	0.39649	ug/m3	94.8		70 - 130			1
	B166092-BSD1	LCSD	0.38777	0.39649	ug/m3	97.8	3.2	70 - 130	30		2
Methylene chloride	B166092-BS1	LCS	0.38576	0.34737	ug/m3	111		70 - 130			1
	B166092-BSD1	LCSD	0.38968	0.34737	ug/m3	112	1.0	70 - 130	30		2
Tetrachloroethene	B166092-BS1	LCS	0.67208	0.67825	ug/m3	99.1		70 - 130			1
	B166092-BSD1	LCSD	0.67839	0.67825	ug/m3	100	0.9	70 - 130	30		2
Toluene	B166092-BS1	LCS	0.35510	0.37684	ug/m3	94.2		70 - 130			1
	B166092-BSD1	LCSD	0.36000	0.37684	ug/m3	95.5	1.4	70 - 130	30		2
1,1,1-Trichloroethane	B166092-BS1	LCS	0.51910	0.54562	ug/m3	95.1		70 - 130			1
	B166092-BSD1	LCSD	0.52767	0.54562	ug/m3	96.7	1.6	70 - 130	30		2
1,1,2-Trichloroethane	B166092-BS1	LCS	0.52259	0.54562	ug/m3	95.8		70 - 130			1
	B166092-BSD1	LCSD	0.52292	0.54562	ug/m3	95.8	0.1	70 - 130	30		2

Quality Control Report - Laboratory Control Sample

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Report ID: 1001425488



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

						Control Limits						
		_		Spike		Percent		Percent		Lab	_ "	
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Quals	Run #	
QC Batch ID: B166092												
Trichloroethene	B166092-BS1	LCS	0.51174	0.53737	ug/m3	95.2		70 - 130			1	
	B166092-BSD1	LCSD	0.51163	0.53737	ug/m3	95.2	0.0	70 - 130	30		2	
Vinyl chloride	B166092-BS1	LCS	0.25953	0.25562	ug/m3	102		70 - 130			1	
	B166092-BSD1	LCSD	0.27688	0.25562	ug/m3	108	6.5	70 - 130	30		2	
p- & m-Xylenes	B166092-BS1	LCS	0.83074	0.86843	ug/m3	95.7		70 - 130			1	
	B166092-BSD1	LCSD	0.82713	0.86843	ug/m3	95.2	0.4	70 - 130	30		2	
o-Xylene	B166092-BS1	LCS	0.41485	0.43421	ug/m3	95.5		70 - 130			1	
	B166092-BSD1	LCSD	0.41307	0.43421	ug/m3	95.1	0.4	70 - 130	30		2	
Total Xylenes	B166092-BS1	LCS	1.2456	1.3026	ug/m3	95.6		70 - 130			1	
	B166092-BSD1	LCSD	1.2402	1.3026	ug/m3	95.2	0.4	70 - 130	30		2	
4-Bromofluorobenzene (Surrogate)	B166092-BS1	LCS	3.65	3.58	ug/m3	102		50 - 150			1	
	B166092-BSD1	LCSD	3.65	3.58	ug/m3	102	0.0	50 - 150			2	

Quality Control Report - Laboratory Control Sample



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1 MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
1	B166092-BS1	LCS	EPA-TO-15-SIM	05/15/23	05/15/23 17:11	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1	

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Reported:05/17/2023 18:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Volatile Organic Compounds by GC/MS (EPA Method TO-15 at STP)

Quality Control Report - Laboratory Control Sample

					Run			
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1
2	B166092-BSD1	LCSD	EPA-TO-15-SIM	05/15/23	05/15/23 17:43	RMK	MS-A1	1



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Method Blank Analysis

Constituent			QC Sample ID	MB Result	Units	PC	ΣL Ι	MDL	Lab Quals	Run #
QC Bat Methane (CH4	ch ID: B166202		B166202-BLK1	ND	ppmv	2	0	1.8		1
	.,									
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilutio	n	
1	B166202-BLK1	PB	ASTM-D1946	05/16/23	05/16/23 20:39	RMK	GC-A1	1	•	



Reported:05/17/202318:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Fixed Gases by GC/TCD (ASTM D1946)

Quality Control Report - Laboratory Control Sample

								Control	<u>Limits</u>		
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	Run #
QC Batch ID: B166202											
Methane (CH4)	B166202-BS1	LCS	21574	18000	ppmv	120		70 - 130			1
	B166202-BSD1	LCSD	21352	18000	ppmv	119	1.0	70 - 130	30		2
		LOOD	21002		Run		1.0				

					Run				
Run #	QC Sample ID	QC Type	Method	Prep Date	Date Time	Analyst	Instrument	Dilution	
1	B166202-BS1	LCS	ASTM-D1946	05/16/23	05/16/23 19:58	RMK	GC-A1	1	
2	B166202-BSD1	LCSD	ASTM-D1946	05/16/23	05/16/23 20:18	RMK	GC-A1	1	



Reported:05/17/2023 18:06Project:City TerraceProject Number:36908Project Manager:April McGuire

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected

- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

Air Quality Attribution Study Report City Terrace, East Los Angeles, California APPENDIX B

Student's t-Test Calculations

APPENDIX B STUDENT'S t-TEST CALCULATIONS

This appendix has been prepared to document the procedures that were used to determine whether mean average benzene values between ambient/outdoor air data sets are significantly different from one another. A series of statistical analyses were carried out in Microsoft Excel using the Student's t-Test functionality (*T.TEST*), which calculates the probability (p-value) associated with a Student's t-Test to determine whether two groups of samples are likely to have come from the same two underlying populations that have the same mean. The Excel function returns a p-value which is compared against a conservative reference significance value of 0.01 to determine if there is a significant difference between the two groups of samples. If the calculated Student's t-Test p-value is less than 0.01, there is a significant difference between the two groups of samples, and vice versa if the calculated p-value is greater than 0.01.

SYNTAX

Each calculation was performed using the following syntax in Microsoft Excel:

=T.TEST(array1,array2,2,2)

Where array1 = the first data set, array 2 = the second data set, the first '2' = the number of distribution tails (two), and the second '2' = the type of t-Test being performed (two-sample equal variance [homoscedastic]). A two-tailed test is used because a significant difference between two groups of samples can occur in either direction (i.e., one group can have a significantly different mean that is greater than, or less than, the other group). A two-sample equal variance t-Test is performed because the sample groups being compared are not paired (i.e., correlated) and have similar variances within each group.

GROUPS OF DATA

Sample groups were arranged according to their respective study (i.e., Peak/Minimum Traffic Study, Lateral Variation Study, Gasoline Service Station / Fueling Facilities Study) and/or location (i.e., Freeway (within 0.125 miles), Non-Highway (greater than 0.125 miles), City Terrace Community (including samples from Roux's *Soil Gas and Indoor Air Sampling Report*, dated June 2023¹), Greater Los Angeles Air Basin (data from AQMD's Mates V Air Monitoring Dashboard²).

No duplicates were included in any analysis. Except for comparisons within the Peak/Minimum Traffic Study, in which ambient/outdoor air samples were collected over three-hour intervals, all ambient/outdoor air sample groups for the Lateral Variation Study and Gasoline Service Station / Fueling Facilities Study, as well as the City Terrace Community sample group, were collected over 24-hour intervals. Data from the April 7 Peak/Minimum Traffic Study were considered outliers and were excluded from the Student t-Test calculation, where applicable

The Greater Los Angeles Air Basin ambient/outdoor air sample data represents the average benzene concentrations recorded from 2018 – 2019 at the following locations: Burbank, Central LA, Compton, Huntington Park, Inland Valley San Bernadino, Long Beach, Pico Riviera, Rubidoux, and West Long Beach.

¹ Roux. Soil Gas and Indoor Air Sampling Report: City Terrace Community. June 2023.

² http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v/mates-v-air-monitoring-dashboard

COMPARISONS

Student t-Test Excel calculations were performed for the following sample groups:

- City Terrace Community (n=24) vs. Greater Los Angeles Air Basin (n=9)
- Peak/Minimum Traffic Study (3-hour collection time)
 - Freeway Adjacent Peak Traffic (n=6) vs. Freeway Adjacent Minimum Traffic (n=6)
 - Non-Freeway Adjacent Peak Traffic (n=2) vs. Non-Freeway Adjacent Minimum Traffic (n=2)
- Lateral Variation Study
 - Lateral Variation Study (n=29) vs. Greater Los Angeles Air Basin (n=9)
 - Freeway Adjacent (n=8) vs. City Terrace Community (n=24)
 - Non-Freeway Adjacent (n=21) vs. City Terrace Community (n=24)
- Gasoline Service Station / Fueling Facilities Study
 - Fueling Sites A and B (n=2) vs. Freeway Adjacent (n=8)
 - Fueling Sites C and D (n=2) vs. City Terrace Community (n=24)

RESULTS

The following sample groups were calculated to be **significantly different** from each other (i.e., the calculated Student t-Test p-value was less than 0.01):

- City Terrace Community vs. Greater Los Angeles Air Basin
 - o p-value = 0.0016
- Freeway Adjacent Peak Traffic vs. Freeway Adjacent Minimum Traffic
 - o p-value = 2.2 x 10⁻⁵
- Non-Freeway Adjacent Peak Traffic vs. Non-Freeway Adjacent Minimum Traffic
 - o p-value = 0.005
- Lateral Variation Freeway Adjacent vs. City Terrace Community
 - p-value = 6.8 x 10⁻⁵

The following sample groups were calculated to **not be significantly different** from each other (i.e., the calculated Student t-Test p-value was greater than 0.01):

- Lateral Variation Study vs. Greater Los Angeles Air Basin
 - p-value = 0.97
- Lateral Variation Non-Freeway Adjacent vs. City Terrace Community
 - o p-value = 0.02
- Gasoline Service Station / Fueling Facilities Study Fueling Sites A and B vs. Freeway Adjacent
 - o p-value = 0.72
- Gasoline Service Station / Fueling Facilities Study Fueling Sites C and D vs. City Terrace
 Community
 - p-value = 0.93