INITIAL STUDY

APPENDIX G.2: PHASE II SITE INVESTIGATION REPORT

December 7, 2020

Mr. Collin Monsour
Bardas Investment Group
cmonsour@bardasig.com

Subject: **Phase II Environmental Site Investigation Report**
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Dear Mr. Monsour:

RMD Environmental Solutions, Inc., (RMD) has prepared a *Phase II Environmental Site Investigation Report* (Phase II Report) describing recent investigation activities for 5601-5643 Santa Monica Boulevard in Los Angeles, California (the Site; Figure 1). The RMD *Proposal for Phase II Environmental Site Investigation*[1] described a scope of work to assess whether contamination is present which may trigger an obligation to perform further investigation and/or mitigation measures or which otherwise could result in environmental liability should Bardas Investment Group (Bardas) purchase the Site for redevelopment. The Site background, investigation objectives, scope of work, and results are provided in the Report sections below.

SITE BACKGROUND

The Site consists of one vacant parcel located on the northern side of Santa Monica Boulevard and the western side of St. Andrew Place. It is developed with an unoccupied retail building that was formerly occupied by Sears Roebuck & Co. The remainder of the parcel is improved with asphalt-paved parking areas and concrete pad where buildings were formerly located on the southwestern portion of the Site. No operations are currently performed on-Site.

Previous environmental investigations include a 2006 soil and groundwater investigation conducted by Rincon Consultants, Inc. (Rincon); a 2015 Phase II Environmental Site Assessment conducted by Northgate Environmental Management, Inc. (Northgate); and a 2020 Phase I Environmental Site Assessment, conducted by Partner Engineering and Science. Select figures and tables which summarize data from the 2006 and 2015 investigations are provided in Attachment A and summarized below.

[1] Proposal for Phase II Environmental Site Investigation, 5601 – 5643 Santa Monica Boulevard, Los Angeles, California. RMD. October 30, 2020.

Rincon 2006 Soil and Groundwater Investigation[2]

The focus of the 2006 investigation was associated with investigation of two suspected former 5,000 gallon USTs north of the Sears building, based on 1986 building permits which indicated a "tank hole" was backfilled in 1986. In November 2006, Rincon advanced six borings (B1 through B6) to a maximum depth of 32 feet below ground surface (bgs), north and west of the former Sears building (Attachment A). Groundwater was encountered in four of the six borings. Samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (TPHg); TPH as diesel (TPHd); TPH as motor oil (TPHmo); semi-volatile organic compounds (SVOCs), benzene, toluene, ethyl benzene, and xylenes (BTEX); oxygenates; and lead. The report indicated that aside from TPHg, no other chemicals were observed above laboratory detection limits. TPHg in groundwater was reported at a maximum concentration of 924 micrograms per liter (µg/L).

Soil samples were collected from the six borings at 5 foot intervals. Similar to groundwater, soil samples were analyzed for TPHg, TPHd, TPHmo, BTEX, oxygenates, SVOCs, and total lead. The report indicated that aside from lead, no other chemicals were reported above laboratory reporting limits. Lead was reported at a maximum concentration of 23 milligrams per kilogram (mg/kg).

The report concluded that the TPHg reported in groundwater samples was migrating from an upgradient source.

Northgate 2015 Phase II Investigation[3]

Northgate's investigation focused primarily in the southwest portion of the property, in the vicinity of a former gas station and Sears automotive center, and a former potential drycleaner. Limited sampling was conducted outside of this area adjacent to storm drains and/or identified prior automotive service areas. Four shallow soil borings (B-1 through B-4) to a depth up to 15 feet bgs, four deeper borings (GW-1 though GW-4) to a depth up to 38.5 feet bgs, and eight temporary soil vapor probes (SVP-1 though SVP-8) to a depth of 5 feet bgs were advanced at the approximate locations shown on Figure 2 and in Attachment A.

A total of 20 soil samples were collected from the eight B/GW borings at 5 foot intervals. Soil samples were analyzed for TPHg, TPHd, TPHmo, and VOCs. No analytes were reported in any of the soil samples collected with the exception of TPHd from the sample collected from 10 feet bgs from B3. A total of 4 grab groundwater samples were collected from GW-1 through GW-4. Groundwater samples were analyzed for TPHg, TPHd, TPHmo, and VOCs and GW-1 was additionally analyzed for

[2] Soil and Groundwater Assessment Report, Sears Hollywood Property, 5601 Santa Monica Boulevard, Los Angeles, California. Rincon, December 7 2006.

[3] Phase II Environmental Site Assessment, 5609-5667 Santa Monica Boulevard, 5542 Virginia Avenue, and 5545 Virginia Avenue, Los Angeles, California. Northgate, March 14, 2016.

metals. Reported analytes consisted of Freon 11, chloroform, tetrachloroethene (PCE), and several metals. None of the concentrations exceeded respective California Maximum Contaminant Levels (MCLs).

A total of eight soil vapor samples were collected from SV-1 through SV-8 and analyzed for VOCs using an on-Site mobile laboratory. Reported concentrations consisted of methylene chloride (up to 670 micrograms per cubic meter [µg/m^3]), chloroform (up to 120 µg/m^3), benzene (up to 140 µg/m^3), PCE (up to 160 µg/m^3), and naphthalene (up to 220 µg/m^3). Based on the data collected, Northgate concluded that a potential vapor intrusion risk was present for future development.

Partner Engineering and Science (Partner) Phase I Environmental Site Assessment[4].

The Phase I conducted by Partner in October 2020, identified the following:

1. A former gasoline station on the southwest corner of the property.
2. A gasoline station in the southeastern corner of the property within the former footprint of the Sears building.
3. A Sears automotive center near the southwest corner of the property – potentially two former underground storage tanks (USTs) on the northern side of the building.
4. A former battery and lube oil facility near the northwest corner of the Sears building.
5. A cleaners (potential dry cleaner) at 5663 Santa Monica Boulevard, located along the southern property line (they identify this location to be near SV-5).
6. An automotive repair facility at 5615 and 5617 Santa Monica Boulevard (Phase I states that these locations appear to be under the footprint of the current Sears building. It was assumed that any former USTs were removed with construction of the building basement).

Approximate locations of the former uses identified above are included on Figure 2. Prior sampling accomplished by Rincon and Northgate addressed data gaps associated with #2, #4, and #5 above.

RMD proposed additional sampling, reported herein, to fill identified data gaps. The Geocon Inland Empire, Inc., (Geocon) geotechnical report[5] for the Site indicated the existence of 2 to 8 feet of fill across the Site, with an average depth of 5 feet. The fill contained asphalt, concrete and debris, likely from earlier Site development, demolition, and grading. Proposed excavation for subterranean parking will require off-Site disposal of soil. Characterization of shallow soil is required to provide an understanding of disposal costs.

[4] Phase I Environmental Site Assessment Report, Vacant Sears and Two Vacant Parcels, 5601-5643 Santa Monica Boulevard and 5544, 5545 Virginia Avenue, Los Angeles California 90038. Partner, October 23, 2020.
[5] Geotechnical Investigation, Paseo Plaza Mixed-Use Development, 5661 Santa Monica Boulevard, Los Angeles, California. Geocon. April 17, 2017.

Additionally, given the assumed groundwater flow direction of south to southwest, another data gap is whether the chlorinated compounds measured by Northgate in the southwest portion of the Site are due to an on-Site release, or are coming onto the Site from an upgradient source.

Given the above, the scope of RMD's Phase II sampling program includes:

- Shallow soil sampling to provide characterization of the fill soil for off-Site haul and disposal;
- Groundwater testing to understand concentrations coming onto the Site, to check for releases due to #1, and #5 leaving the Site at the southwest property boundary, and concentrations of chlorinated compounds in the area west of the Sear building; and
- Soil vapor testing under the former Sears building to understand if releases had occurred from the former gas station (#2).

SCOPE OF WORK

During the Phase II investigation in November 2020, the scope of work consisted of a combination of on-Site soil, soil vapor sampling, and grab groundwater sampling, summarized as follows:

- Five soil borings (B-5 through B-9) were advanced using a hand auger to 5 feet bgs for the purpose of soil characterization planning.
- Five borings (GW-5 through GW-9) were advanced using a hand auger to 5 feet bgs and then advanced to a maximum depth of 38.5 feet bgs using a direct-push technology (DPT) drill rig for the purpose of collecting grab groundwater samples. A groundwater sample could not be collected from GW-9. Shallow soil samples were collected from borings GW-5 through GW-9 to aide in soil characterization planning.
- Three soil vapor sample probes were installed (SV-9, SV-10, and SV-11; Figure 2) at 4.5 feet bgs from the basement of the former Sears building. Each of the soil vapor probes were sampled more than 48 hours after installation.

Drilling activities were conducted by Strongarm Environmental Field Services, Inc., (Strongarm), a C-57 licensed contractor under the oversight of RMD personnel. All work was performed under direction of an RMD, California licensed geologist.

Locations are provided on Figure 2 and further details are provided as follows.

PRE-FIELD ACTIVITIES

Prior to initiating field work, RMD performed the following pre-field activities:

- Marked the proposed sampling locations for Underground Service Alert (USA);

- Prepared a Site-specific Health and Safety Plan;
- Obtained a well permit from the Los Angeles County Department of Public Health (Attachment B); and
- Conducted an underground utility survey to clear the proposed drilling locations of underground utilities and other possible subsurface obstructions.

SOIL LOGGING

On November 12 and 13, 2020, during hand augering of borings B-5 through B-9 and GW-5 through GW-9, shallow soil was visually characterized and described using the Unified Soil Classification System (USCS). Soil samples were field screened for total VOCs using a handheld photoionization detector (PID). The upper 5 feet of the subsurface was primarily characterized by lean clay with fine-grained sand overlaying silt with fine-grained sand. The upper 1 to 2 feet bgs also contained trace amounts of gravel. Groundwater was encountered between approximately 30 and 33 feet bgs. No odors or elevated PID readings were recorded during drilling activities. The soil types and PID readings provided on the boring logs (Attachment C).

SOIL SAMPLING

Soil samples were collected at borings B-5 through B-9 and GW-5 through GW-9 during hand augering activities. Soil samples were collected in approximately 1-foot intervals from the surface to 5 feet bgs. Soil samples were collected in laboratory-supplied sample containers, labeled, placed in a chilled cooler, and transported under standard chain-of-custody (COC) protocol to Pace Analytical (Pace), a State-certified laboratory, for analysis. At each location, a composite of the discrete soil samples was analyzed for the following:

- TPHd and TPH as motor oil (TPHmo) using United States Environmental Protection Agency (USEPA) Method 8015; and
- California Administrative Manual (CAM)-17 Metals using USEPA Method 6020.

The discrete samples that made up the composite samples were placed on hold at the laboratory pending analysis of the composite samples.

At each location, the discrete samples collected from 3 feet bgs were also analyzed for VOCs and TPHg using USEPA Method 8260B.

After reviewing the initial results of the composite samples, three samples (B-5-Comp, B-8-Comp, and GW-5-Comp) were analyzed for California's Soluble Threshold Limit

Concentration (STLC) extraction test for chromium and one sample (GW-7-Comp) was analyzed for STLC extraction test for lead.

Following sample collection in borings B-5 through B-9, each boring was backfilled with hydrated bentonite and capped with asphalt or concrete to match surrounding grade.

GRAB GROUNDWATER SAMPLING

Five borings (GW-5 through GW-9) were advanced to approximately 36 to 38.5 feet bgs using a direct-push rig with a Macrocore sampler. As discussed above, each boring was cleared to 5 feet bgs using a hand auger to confirm the absence of shallow obstructions. Once each boring reached the target depth, a Hydropunch™ tool was advanced into the boring to approximately 4 feet below initial groundwater. The tool was lifted 4 feet, exposing the temporary well screen. The grab groundwater samples were collected from the temporary well casing using a check valve and new disposal tubing for each location. A groundwater sample could not be collected from boring GW-9. The boring remained dry after approximately 4 hours. Groundwater recharged slowly in boring GW-6, but a sample was successfully collected after approximately 4 hours.

The grab groundwater samples were collected and transferred directly into laboratory-supplied sample containers. Samples were labeled, placed in a chilled cooler, and transported under standard COC protocol to Pace for analysis. Grab groundwater samples were analyzed for TPHg and VOCs using USEPA Method 8260B.

Following sample collection, each boring was tremie-grouted with neat cement and capped with concrete to match surrounding grade.

SOIL VAPOR PROBE INSTALLATION

On November 12, 2020, three soil borings (SV-9 through SV-11) were advanced to approximately 5 feet bgs from the basement of the former Sears building using a hand auger. Soil vapor probes were installed at 4.5 feet bgs. Soil vapor probes were installed in accordance with the methods and procedures outlined in the *Advisory – Active Soil Gas Investigations* (Advisory)[6]. The soil vapor probes were constructed using 1/4-inch diameter Teflon™ tubing, fitted with a vapor probe implant installed at the target depth with a three-way valve at the surface. The annulus surrounding the implant was filled with #2/12 Monterey sand to six inches above and below the implant, followed by a one foot layer of dry granulated bentonite, and hydrated bentonite chips

[6] Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, and San Francisco Regional Water Quality Control Board (CalEPA). 2015. *Advisory – Active Soil Gas Investigations.* July.

to the bottom of the shallow soil vapor probe for the deep probe or near ground surface for the shallow probe/single completion probe. A traffic-rated flush-mount vault box was installed at the surface of each location for protection. Soil vapor probe construction details are recorded in Table 1.

SOIL VAPOR PROBE SAMPLING

On November 16, 2020, the soil vapor probes (SV-9 through SV-11) were sampled. Each soil vapor probe was sampled in accordance with the Advisory. At each probe a shut-in test was conducted and a total of three system volumes were removed prior to sampling. After the sampling assembly was purged and immediately before the sample was collected, a leak check compound (LCC), 1,1-difluoroethane (1,1-DFA), was used to saturate a paper towel that was placed in a sealable plastic bag near all locations where ambient air could enter the sampling system or where cross contamination could occur. Soil vapor samples were collected from each location in 1-liter SUMMA™ canisters, labeled, handled under standard COC protocols, and transported to Pace for analysis. The samples were analyzed for TPHg and VOCs using USEPA Method TO-15, and fixed gases and oxygen using modified American Society for Testing and Materials (ASTM) Method D-1946.

INVESTIGATION RESULTS

A summary of investigation results is provided as follows. Historical data collected in 2016 by Northgate are provided in summary tables in Attachment A and referenced below.

SOIL

Soil analytical VOCs results were compared to the Department of Toxic Substances Control (DTSC) Screening Levels (DTSC SLs)[7] and USEPA Regional Screening Levels Regional Screening Levels (USEPA RSLs)[8]. The more conservative value is designated as the screening level (SL). TPH concentrations were compared to Los Angeles Regional Water Quality Control Board (LARWQCB) Maximum Soil Screening Level (SSLs) for soil samples collected between 20 and 150 feet above groundwater[9]. TPHg, TPHd, TPHmo, and VOC concentrations are presented on Table 2. None of the samples analyzed reported TPH or VOC detections above applicable SSLs, Commercial/Industrial SLs, and/or Residential SLs.

[7] DTSC. 2020. Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC SLs). Human and Ecological Risk Office (HERO). June.
[8] USEPA. 2020. Regional Screening Levels (TR=1E-06, HQ=1). May.
[9] LARWQCB. Interim Site Assessment & Cleanup Guidebook. May 1996.

Metal concentrations are presented in Table 3. Metals with reported concentrations above the Commercial/Industrial SLs, Residential SLs, and/or Background Concentrations in California Soils (Background Levels)[10 & 11] are summarized as follows:

- Arsenic was detected above the Commercial/Industrial SL of 0.36 milligrams per kilogram (mg/kg) and the Residential SL of 0.11 mg/kg in each of the 10 composite samples analyzed. However DTSC has acknowledged that the strict use of RSLs is impractical due to naturally occurring background concentrations and has set acceptable levels of arsenic in soil at 12 mg/kg for school sites in California[11]. Due to this determination, arsenic concentrations up to 12 mg/kg in soil are interpreted to be background and acceptable for residential use.
- No additional metals were detected above the Commercial/Industrial SLs or Residential RLs in the analyzed soil samples.

Based on the results, several samples were additionally analyzed using the waste extraction test (WET) for waste characterization. The STLC extraction test for lead and/or chromium was conducted on the samples, as identified on Table 3. All STLC extraction results for chromium and lead in the composite samples were below the respective non-hazardous waste classification limits.

Laboratory analytical reports are included in Attachment D.

GROUNDWATER

Table 4 summarizes the grab groundwater analytical results. TPHg and VOC concentrations were compared to Maximum Contaminant Levels (MCLs) for drinking water (Title 22 California Code of Regulations [CCR] § 64444).

Groundwater at the Site is serviced by a public water supply for beneficial use. Development of the shallow water-bearing zones beneath the site for beneficial uses is remote due to poor natural water quality, the presence of regional contamination (e.g., coliform from leaking sanitary sewer lines, unrelated chemical plumes), and the presence of more productive water-bearing zones at depth. Therefore, direct contact with groundwater exposure pathway is considered incomplete for receptors at the Site.

[10] Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H. 1996. Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Sciences Special Report, Division of Agriculture and Natural Resources, University of California.
[11] DTSC. 2018. Determination of a Southern California Regional Background Arsenic Concentration in Soil.

A summary of the detections is as follows:

- PCE was detected in samples GW-5 and GW-6 at 1.52 µg/L) and 0.427J µg/L, respectively. These concentrations did not exceed the MCL. Figure 3 summarizes the analytical results for PCE for the current and historical groundwater data.
- Other VOCs, including benzene, chloroform, freon-11, and acetone were reported at relatively low concentrations at levels that would not trigger additional investigation or mitigation.

The laboratory analytical report is included in Attachment D.

SOIL VAPOR

Table 6 summarizes the soil vapor analytical results. TPHg and VOC constituents were compared to Commercial/Industrial SLs and Residential SLs for Soil Vapor Intrusion to Indoor Air.

All reported soil vapor concentrations were below the SLs with the following exceptions:

- PCE was reported above the Residential SL of 15 µg/m^3 in probes SV-10 (62.5 µg/m^3) and SV-11 (58.2 µg/m^3) but below the Commercial/Industrial RSL of 67 µg/m^3. Figure 4 summarizes the analytical results for PCE for the current and historical soil vapor data.
- Benzene was detected above the Residential RL of 3.2 µg/m^3 in probe SV-10 (4.34 µg/m^3) but below the Commercial/Industrial RSL of 14 µg/m^3.
- Naphthalene was detected above the Residential RSL of 2.6 µg/m^3 in probe SV-10 (10.9 µg/m^3) but below the Commercial/Industrial RSL of 12 µg/m^3.
- All other reported soil vapor concentrations were below the Commercial/Industrial SLs, Residential SLs, and/or there is no established SLs and are not considered primary chemicals of concern.

Fixed gases including oxygen were analyzed at each soil vapor probe location (Table 6). Oxygen concentrations ranged from 22.4% at probe SV-9 to 22.9% at probe SV-10. RMD notes that the oxygen content reported by the laboratory is slightly higher than an ambient concentration of 21%. The laboratory method for oxygen analysis allows a 15% deviation from the true value. Based on the reported value, the oxygen content in shallow soil vapor concentration is near an

ambient concentration of 21%. An oxygen concentration above 4% is an indication of a bioattenuation zone present in the subsurface[12].

Laboratory analytical reports are included in Attachment D.

Quality Assurance/Quality Control Sampling

1,1-DFA was used as a LCC for collection of the soil vapor samples for analysis of TPHg and VOCs by USEPA Method TO-15. As shown in Table 5, 1,1-DFA was detected at concentrations between 8.62 µg/m^3 and 38 µg/m^3 in probes SV-9 and SV-10, respectively. The Advisory allows the concentration of the LCC at 10 times the reporting limit of the target analyte, which is 1.36 µg/m^3 for PCE corresponding to an allowable 1,1-DFA concentration of 13.6 µg/m^3. The concentration of 1,1-DFA in probes SV-9 and SVP-11 was 38.9 µg/m^3 and 18 µg/m^3, respectively. The values exceed the allowable concentration and indicate potential dilution from atmospheric air during sampling. The PCE and 1,1-DFA concentrations reported in the samples are summarized as follows:

Soil Vapor Probe	PCE Concentration (µg/m^3)	1,1-DFA Concentration (µg/m^3)
SV-9	7.74	38.9
SV-10	62.5	8.62
SV-11	58.2	18

Shaded cells exceed the allowable leak check compound concentration of 13.6 µg/m^3 (10-times the reporting limit of target analyte PCE [CalEPA, 2015[6]]).

As indicated, the PCE concentrations at SV-11 (which only slightly exceeded the allowable 1,1-DFA concentration) and SV-10, are similar. RMD notes that the PCE concentration at SV-9 may be higher than reported, as indicated by the detection of 1,1-DFA at approximately 2.5 times above the allowable concentration. However, these results do not change RMD's overall conclusions, discussed on the next page.

[12] State Water Resources Control Board. 2012. *Low-Threat Underground Storage Tank Case Closure Policy*. November 6.

The results from SV-9 are qualified in Table 5, to indicate that the results may be biased low for this sample location. The detected concentrations of 1,1-DFA in probes SV-10 and SV-11 do not indicate significant dilution from atmospheric air during sampling.

Laboratory analytical reports are included in Appendix C.

INVESTIGATION DERIVED WASTE MANAGEMENT

Investigation derived waste (IDW) consisted of soil cuttings. IDW was stored on-Site in a properly labeled 55-gallon drum. Following waste characterization profiling, IDW will be disposed of in accordance with applicable laws and regulations.

DISCUSSION OF KEY RESULTS AND CONCLUSIONS

Low concentrations of TPH, VOCs, and metals were reported in the shallow soil. The concentrations reported were below regulatory action levels. With regards to soil disposal and planning for Site grading, additional STLC analysis was conducted for chromium and lead. STLC soil analytical results demonstrate the chromium and lead detected in the composite samples does not fall under hazardous waste classification.

Low concentrations of PCE have been detected in groundwater both historically and during this investigation (Figure 3). The concentrations were very low and not at levels that would require active remediation in groundwater.

Concentrations of VOCs were detected in the soil vapor beneath the basement of the former Sears building at levels that are above vapor intrusion screening levels for residential land use. It is RMD's understanding that the proposed redevelopment for the Site includes dual-level subterranean parking which would mitigate the potential for vapor intrusion resulting from the soil vapor impacts beneath the Sears building.

The Northgate report recommended the installation of engineering controls be considered beneath the basement floor to mitigate the potential of vapor intrusion from VOCs in the subsurface. The plans for Site redevelopment include removal of soil across the property footprint to accommodate dual-level subterranean parking. To evaluate the potential vapor intrusion concern from residual VOCs in groundwater, RMD utilized San Francisco Regional Water Quality Control Board (SFRWQCB) groundwater vapor intrusion Environmental Screening Levels (ESLs) as an initial screening. Vapor intrusion ESL values are included on Table 4 for reference. The only compounds in groundwater which exceed the vapor intrusion ESLs are PCE and chloroform (this includes the data collected by Northgate, provided in Attachment A). Chloroform is not expected to be a driver for required mitigation and the maximum

concentration reported for PCE is 3.3 ug/L (at GW-1, Figure 3). RMD developed a site-specific, risk-based vapor intrusion cleanup goal for PCE in groundwater using an 0.1 interunit factor from garage air to residential indoor air. An appropriate PCE vapor intrusion screening level for the Site with residential above two levels of parking is 63.6 ug/L, well above the maximum detected concentration of 3.3 ug/L. Calculation details are provided in Attachment E.

In summary, based on the sampling conducted:

- Soil shallow exported off-Site during Site grading is generally expected to meet acceptable criteria for non-hazardous waste characterization. However, given the Site's prior use and the limited number of soil samples collected across the property, it would be prudent for Bardas to include a contingency budget for localized soil "hot spots" which would require Class II offsite disposal.
- The concentrations of VOCs reported in groundwater are low and not expected to drive further investigation or remediation.
- The concentrations of VOCs reported in soil vapor are relatively low and not expected to drive further investigation or remediation, especially considering the redevelopment plans for a two-level parking garage across the footprint of the Site.

CLOSING

If you have any questions or comments, please do not hesitate to contact Ms. Kirsten Duey at (925) 683-8177 or kduey@rmdes.net.

Sincerely,
RMD ENVIRONMENTAL SOLUTIONS, INC.

Paola Gomez-Birenbaum, P.G.
Senior Geologist

Kirsten Duey
Principal Engineer

ATTACHMENTS:

Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – PCE in Groundwater
Figure 4 – PCE in Soil Vapor

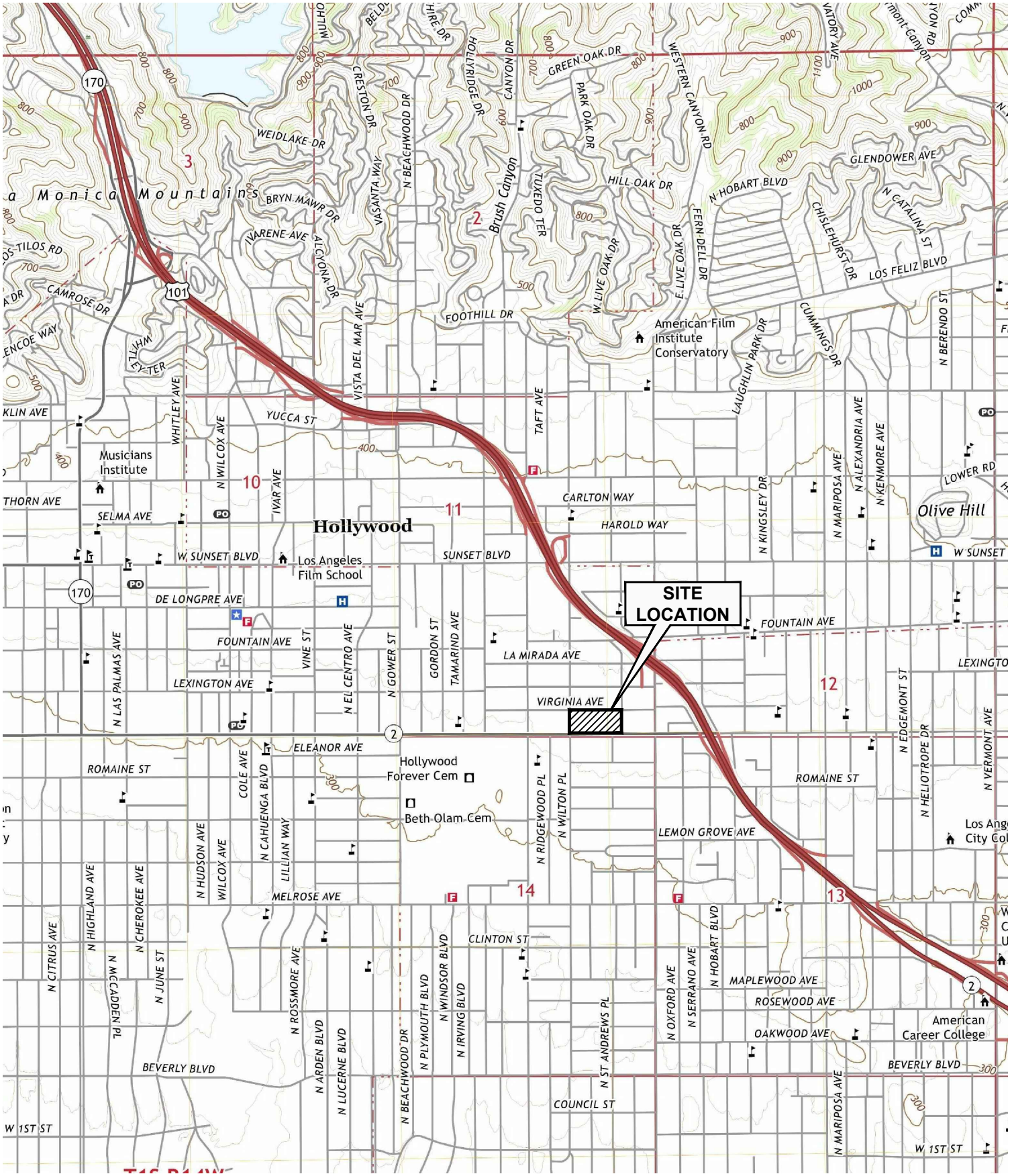
Table 1 – Soil Vapor Probe Construction Details
Table 2 – Summary of Soil Analytical Results – TPH and VOCs
Table 3 – Summary of Soil Analytical Results – Metals
Table 4 – Summary of Groundwater Analytical Results – VOCs
Table 5 – Summary of Soil Vapor Analytical Results – VOCs
Table 6 – Summary of Soil Vapor Analytical Results – Fixed Gases

Attachment A – Tables and Figures from Historical Phase II Reports
Attachment B – Well Permit
Attachment C – Boring Logs and Field Data Sheets
Attachment D – Laboratory Analytical Reports
Attachment E – Residential Indoor Air Screening Levels

LIMITATIONS

This document was prepared for the exclusive use of the Client for the express purpose of complying with a regulatory directive for environmental investigation or restoration. RMD has used professional judgment to present the findings and opinions of a scientific and technical nature. The opinions expressed are based on the conditions of the Site existing at the time of the field investigation, current regulatory requirements, and any specified assumptions. The presented findings and recommendations in this document are intended to be taken in their entirety to assist the Client in applying their own professional judgment in making decisions related to the property. No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, conclusions, and recommendations.

FIGURES



Map Source:
USGS 7.5' Quadrangle, Hollywood, CA 2018

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5601- 5643
WEST SANTA MONICA BLVD
LOS ANGELES, CALIFORNIA

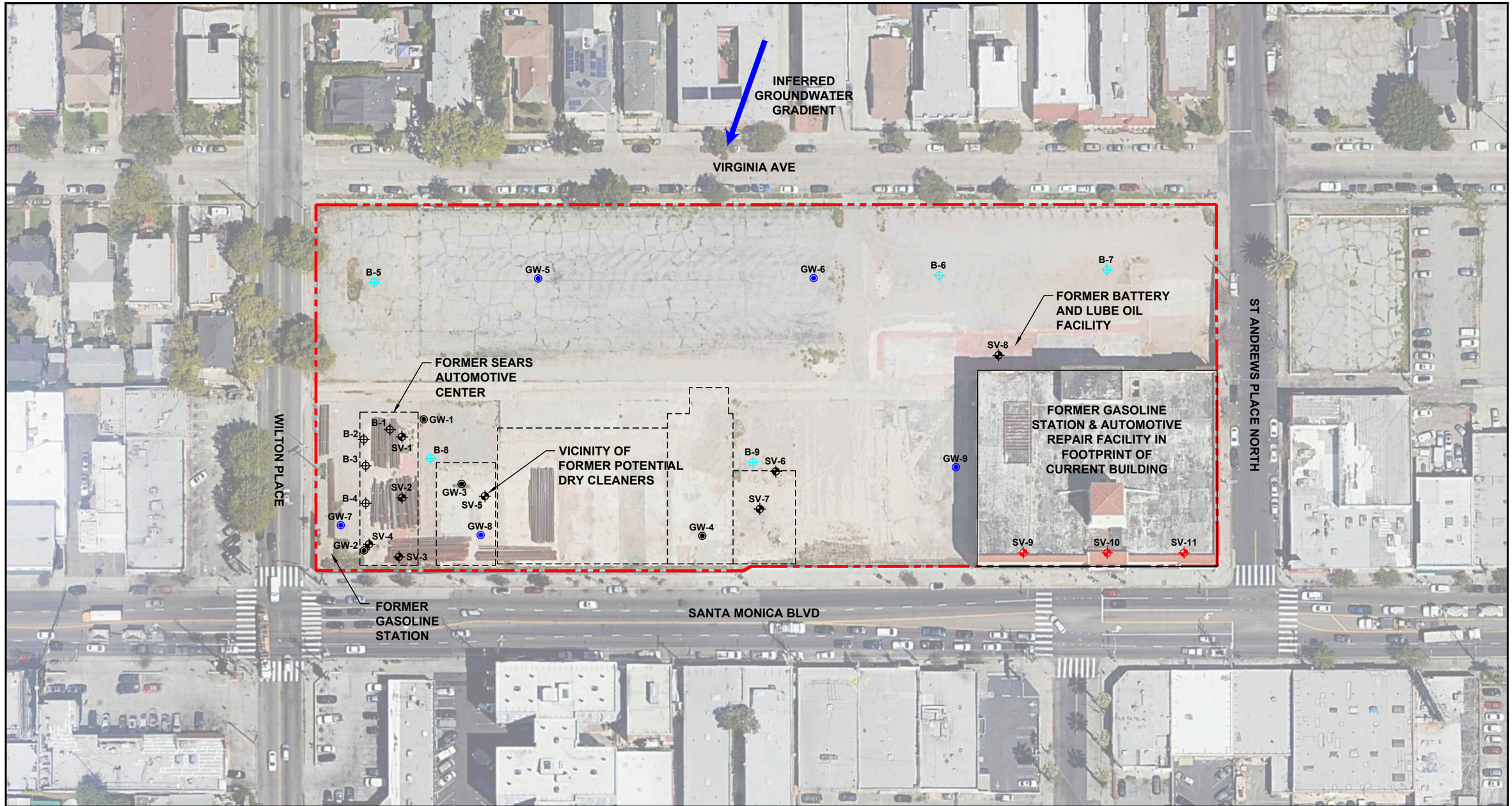
SITE LOCATION MAP

N

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-BAR-001	11/2020	DCB	KD

0 2000 4000
SCALE: 1" = 2000'

FIGURE 1



LEGEND

- Site Boundary
- Historical Building
- Historical Soil Boring Location
- Historical Soil Vapor Probe Location
- Historical Grab Groundwater Sample Location
- Shallow Soil Boring Location (November 2020)
- Soil Vapor Probe Location (November 2020)
- Grab Groundwater Sample Location (November 2020)

Approximate Area of Former Features are Shown.

5601-5643 WEST SANTA MONICA BLVD
LOS ANGELES, CALIFORNIA

SITE PLAN

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-BAR-001	11/2020	DCB	KD

0 80 160
SCALE: 1" = 80'

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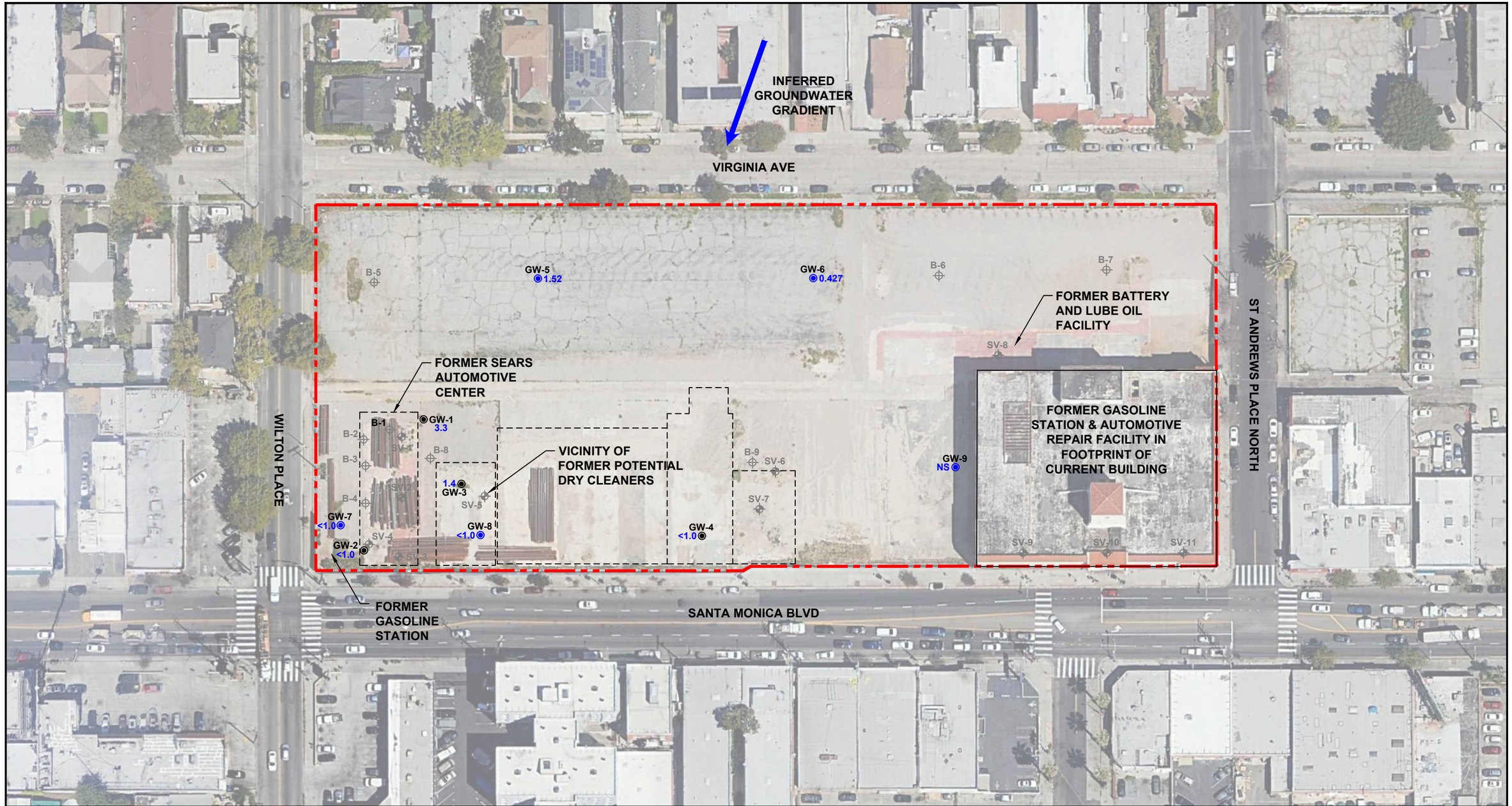
FIGURE 2



LEGEND

Site Boundary		Shallow Soil Boring Location (November 2020)	
Historical Building		Soil Vapor Probe Location (November 2020)	
Historical Soil Boring Location (2016)		Grab Groundwater Sample Location (November 2020)	
Historical Soil Vapor Probe Location (2016)	3.3	PCE Concentration in µg/L	
Historical Grab Groundwater Sample Location (2016)	µg/L	Micrograms per Liter	
PCE	Tetrachloroethene		
NS	Sample Not Collected		

Approximate Area of Former Features are Shown.

Historical Data Source:
Northgate Environmental Management, Inc. 2016. Phase II Environmental Site Assessment, 5609-5667 Santa Monica Boulevard, 5542 Virginia Avenue, Los Angeles, California. March 14.

5601-5643 WEST SANTA MONICA BLVD
LOS ANGELES, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-BAR-001	11/2020	DCB	KD

0 80 160
SCALE: 1" = 80'

PCE IN GROUNDWATER

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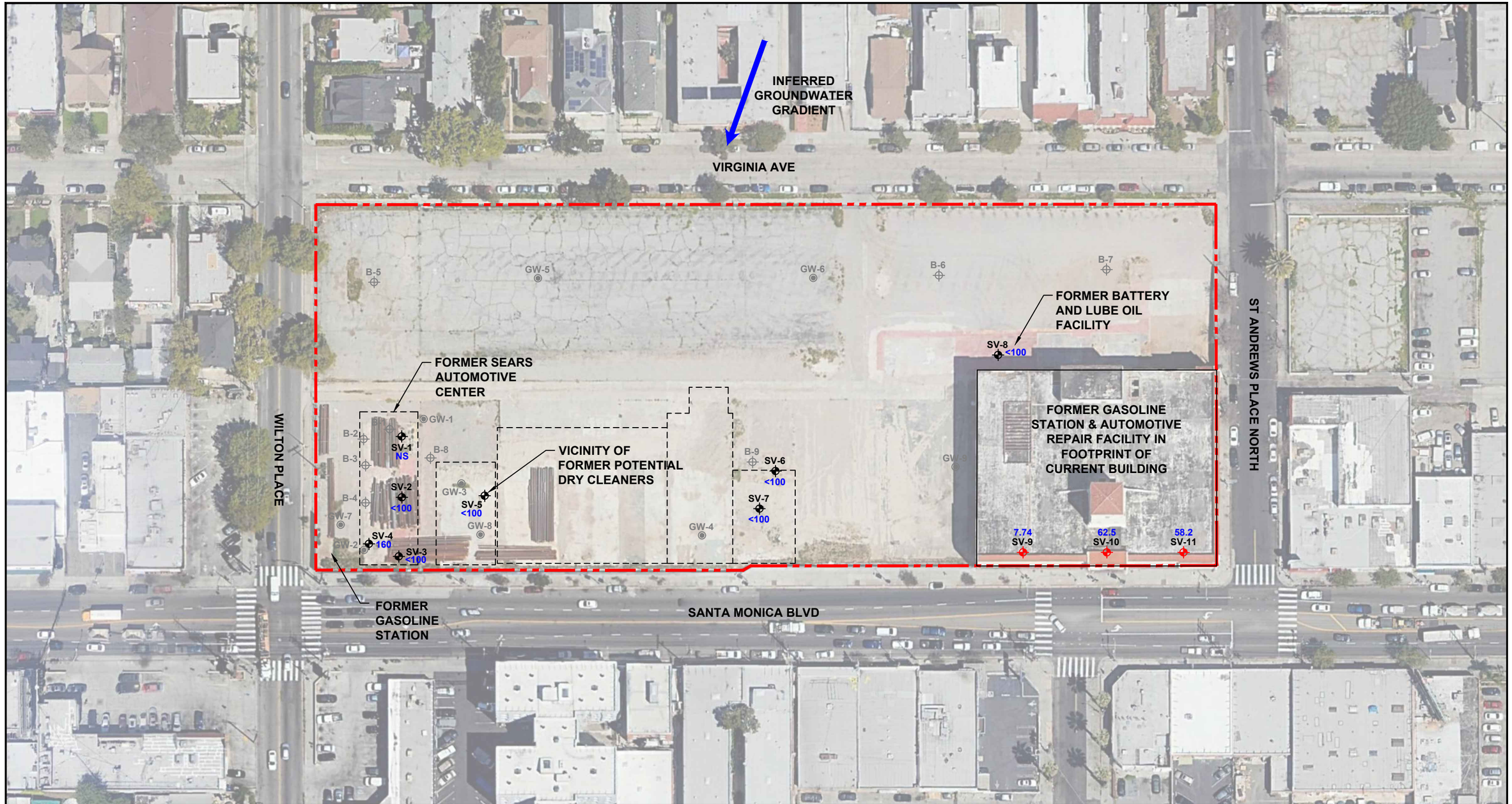
FIGURE 3



LEGEND

Site Boundary		Shallow Soil Boring Location (November 2020)
Historical Building		Soil Vapor Probe Location (November 2020)
Historical Soil Boring Location (2016)		Grab Groundwater Sample Location (November 2020)
Historical Soil Vapor Probe Location (2016)	62.5	PCE Concentration in µg/m³
Historical Grab Groundwater Sample Location (2016)	µg/m³	Micrograms per Cubic Meter
PCE	Tetrachloroethene	
NS	Sample Not Collected	

Approximate Area of Former Features are Shown.

Historical Data Source:
Northgate Environmental Management, Inc. 2016. Phase II Environmental Site Assessment, 5609-5667 Santa Monica Boulevard, 5542 Virginia Avenue, Los Angeles, California. March 14.

5601-5643 WEST SANTA MONICA BLVD
LOS ANGELES, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
01-BAR-001	11/2020	DCB	KD

0 80 160
SCALE: 1" = 80'

PCE IN SOIL VAPOR

RMD ENVIRONMENTAL SOLUTIONS

FIGURE 4

TABLES

Table 1
Soil Vapor Probe Construction Details
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Probe ID	Date Installed	Total Boring Depth (feet bgs)	Tubing Diameter (inches)	Probe Depth (feet bgs)	Seal Interval (feet bgs)	Sand Pack Interval (feet bgs)
SVP-9	11/12/2020	5.0	0.25	4.5	0 - 4	4 - 5
SVP-10	11/12/2020	5.0	0.25	4.5	0 - 4	4 - 5
SVP-11	11/12/2020	5.0	0.25	4.5	0 - 4	4 - 5

Notes:
bgs = below ground surface.

Table 2
Summary of Soil Analytical Results - TPH and VOCs
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Boring ID	Sample Depth (feet bgs)	Date	TPHg (mg/Kg)	TPHd (mg/Kg)	TPHmo (mg/Kg)	PCE (mg/Kg)	Methylene Chloride (mg/Kg)
SSL			**500**	**1,000**	**10,000**	--	--
DTSC SL / USEPA RSL - Commercial / Industrial			--	--	--	**2.7**	**26**
DTSC SL / USEPA RSL - Residential			--	--	--	**0.59**	**2.2**
B-5	3	11/13/2020	0.0498 B J	--	--	<0.00377	0.0109 J
	Comp	11/13/2020	--	<4.65	<9.30	--	--
B-6	3	11/13/2020	<0.121	--	--	<0.00355	0.0107 J
	Comp	11/13/2020	--	<4.57	<9.14	--	--
B-7	3	11/13/2020	0.0597 B J	--	--	<0.00312	<0.0312
	Comp	11/13/2020	--	1.34 J	**8.14**	--	--
B-8	3	11/13/2020	0.118 B J	--	--	0.0018 J	<0.0381
	Comp	11/13/2020	--	1.79 J	**34.4**	--	--
B-9	3	11/13/2020	<0.119	--	--	<0.00350	<0.0350
	Comp	11/13/2020	--	<4.70	<9.40	--	--
GW-5	3	11/13/2020	0.0876 B J	--	--	<0.00438	<0.0438
	Comp	11/13/2020	--	<5.22	<10.4	--	--
GW-6	3	11/13/2020	<0.118	--	--	<0.00441	<0.0441
	Comp	11/13/2020	--	0.888 J	4.99 J	--	--
GW-7	3	11/12/2020	0.0634 B J	--	--	<0.0200	0.0777 J
	Comp	11/12/2020	--	117 J	**989**	--	--
GW-8	3	11/12/2020	0.123 B J	--	--	<0.00426	<0.0426
	Comp	11/12/2020	--	<5.04	<10.1	--	--
GW-9	3	11/13/2020	0.0607 B J	--	--	<0.00319	<0.0319
	Comp	11/13/2020	--	2.96 J	**30.9**	--	--

Notes:
Samples analyzed using USEPA Method 8260B.
COMP = Composite of soil samples collected at 1, 2, 3, 4, and 5 feet bgs.
SSL = Maximum Soil Screening Level for samples collected between 20 and 150 feet above groundwater (LARWQCB, 1996).
DTSC SLs/USEPA RSLs = Department of Toxic Substances Control Screening Levels and U.S. Environmental Protection Agency Regional Screening Levels Regional Screening Levels.
J = Estimated value.
B = The same analyte is found in the associated blank.
<0.010 = Not detected above the noted laboratory reporting limit.
-- = Not analyzed.
bgs = Below ground surface.
mg/Kg = Milligrams per kilogram.
TPHg = Total Petroleum Hydrocarbons Gasoline range (C5-C12)
TPHd = Total Petroleum Hydrocarbons Diesel range (C12-C22)
TPHmo = Total Petroleum Hydrocarbons Motor Oil range (C22-C40)
VOCs = Volatile Organic Compounds
PCE = Tetrachloroethene

References:
Los Angeles Regional Water Quality Control Board (LARWQCB). Interim Site Assessment & Cleanup Guidebook. May 1996.
Department of Toxic Substances Control (DTSC). 2020. Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC SLs). Human and Ecological Risk Office (HERO). June.
U.S. Environmental Protection Agency (USEPA). 2020. Regional Screening Levels (TR=1E-06, HQ=1). May.

Table 3
Summary of Soil Analytical Results - Metals
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Boring ID	Sample Depth (feet bgs)	Date	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium Note 3 (mg/Kg)	Chromium STLC Extraction µg/L	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Lead STLC Extraction µg/L	Mercury (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)
DTSC SL / USEPA RSL - Commercial /			470	0.36	220,000	230	980	1,800,000	--	350	47,000	320	--	4.4	5,800	11,000	5,800	5,800	12	5,800	350,000
DTSC SL / USEPA RSL - Residential			31	0.11	15,000	16	71	120,000	--	23	3,100	80	--	1.0	390	820	390	390	0.78	390	23,000
Background Metals in Soil Note 1			0.6	12 Note 2	509	1.28	0.36	122	--	14.9	29	23.9	--	0.26	1.3	57	0.058	0.8	0.56	112	149
Threshold to Require STLC Analysis			150	50	1,000	8.0	10	50	--	800	250	50	--	2.0	3,500	200	10	50	70	240	2,500
Threshold to Require TCLP Analysis			NV	100	2,000	NV	20	100	--	NV	NV	100	--	4.0	NV	NV	20	100	NV	NV	NV
STLC/TCLP Non-Hazardous Classification Limit			--	--	--	--	--	--	5,000	--	--	--	5,000	--	--	--	--	--	--	--	--
B-5-COMP	COMP	11/13/2020	<3.49	1.89	105	0.562 J	0.282 J	65.3	45.6 J	22.6	32.9	4.11	--	0.0216 J	0.562 J	66.8	0.775 J	<0.582	0.152 J	73.0	62.5
B-6-COMP	COMP	11/13/2020	<3.43 J6	1.53	113	0.457 J	0.302 J	40.3	--	15.5	20.8	3.58 O1	--	0.0232 J	0.496 J	39.2	0.437 J	<0.571	0.186 J	56.3	54.9
B-7-COMP	COMP	11/13/2020	<3.41	1.81	116	0.52 J	0.293 J	55.6	--	20.1	30.3	5.59	--	0.0244 J	0.648 J	57.6	0.673 J	<0.568	0.147 J	62.2	59.2
B-8-COMP	COMP	11/13/2020	<3.59	2.33	170	0.576 J	0.294 J	59.0	56.0 J	15.3	29.2	13.6	--	0.0346 J	0.362 J	50.3	0.611 J	<0.598	0.145 J	72.4	60.5
B-9-COMP	COMP	11/13/2020	<3.52	1.88	130	0.493 J	0.295 J	54.8	--	19.9	30.9	9.32	--	0.0219 J	0.599 J	56.5	0.498 J	<0.587	0.165 J	63.7	63.3
GW-5-COMP	COMP	11/13/2020	<3.91	2.75	122	0.578 J	0.328 J	60.2	57.5 J	21.1	33.4	3.94	--	0.0266 J	0.747 J	62.5	0.489 J	<0.652	0.17 J	73.5	61.4
GW-6-COMP	COMP	11/13/2020	<3.44	1.62	115	0.479 J	0.232 J	46.3	--	17.0	26.4	6.47	--	<0.0458	0.494 J	44.6	0.573 J	<0.573	0.167 J	59.3	60.3
GW-7-COMP	COMP	11/12/2020	0.396 J	5.14	317	0.35 J	0.804 J	21.7	--	9.21	27.2	79.7	2,690	0.071	0.726 J	22.2	0.281 J	0.118 J	0.0934 J	37.6	255
GW-8-COMP	COMP	11/12/2020	<3.78	1.49	83.1	0.417 J	0.207 J	39.0	--	11.4	18.2	2.59	--	<0.0504	0.348 J	31.0	0.368 J	<0.630	0.116 J	43.5	33.7
GW-9-COMP	COMP	11/13/2020	<3.38	1.13	96.8	0.357 J	0.151 J	31.9	--	12.1	16.8	3.22	--	0.0262 J	0.376 J	30.5	0.542 J	<0.563	0.154 J	45.5	49.3

Notes:
Samples analyzed using USEPA Method 6010.
DTSC SLs/USEPA RSLs = Department of Toxic Substances Control Screening Levels and U.S. Environmental Protection Agency Regional Screening Levels Regional Screening Levels.
COMP = Composite of soil samples collected at 1, 2, 3, 4, and 5 feet bgs.
Values shown in red font exceed the threshold which triggers STLC analysis for waste characterization.
Note 1 Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., and Wright, H., 1996, Background Concentrations of Trace and Major Elements in California Soils, Kearney Foundation of Soil Sciences Special Report, Division of Agriculture and Natural Resources, University of California.
Note 2 The Department of Toxic Substances Control (DTSC) has acknowledged that the strict use of RSLs is impractical and has set acceptable levels of arsenic in soil in the range of 8 to 12 mg/kg for school sites in California.
Note 3 RSL values shown for Chromium(III), Insoluble Salts
bgs = Below ground surface.
NV = No established value.
<0.50 = Not detected above the noted laboratory reporting limit.
mg/Kg = Milligrams per kilogram.
µg/L = Micrograms per liter.
J = The identification of the analyte is acceptable; the reported value is an estimate.
O1 = The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
STLC = Soluble Threshold Limit Concentration.

References:
Department of Toxic Substances Control (DTSC). 2018. Determination of a Southern California Regional Background Arsenic Concentration in Soil.
DTSC. 2020. Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC SLs). Human and Ecological Risk Office (HERO). June.
U.S. Environmental Protection Agency (USEPA). 2020. Regional Screening Levels (TR=1E-06, HQ=1). May.

Table 4
Summary of Groundwater Analytical Results - VOCs
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Boring ID	Sample Depth (feet bgs)	Date Sampled	PCE (µg/L)	TCE (µg/L)	Freon-11 (µg/L)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	Acetone (µg/L)	Chloroform (µg/L)	2-Butanone (MEK) (µg/L)	4-Methyl-2-Pentanone (MIBK) (µg/L)	Other VOCs (µg/L)
		MCLs	5	5.0	150	--	1	150	1,750	--	--	--	--	
		Residential Vapor Intrusion ESL Note 1	0.64	1.2	- -	- -	0.42	1,200	390	23,000,000	0.81	2,200,000	560,000	Varies
		Industrial Vapor Intrusion ESL Note 1	2.8	7.5	- -	- -	1.8	4,800	1,600	90,000,000	3.6	9,000,000	2,000,000	
GW-5	28 - 32	11/13/2020	**1.52**	0.31 J	1.06 J	<100	0.0966 J	<1.00	0.387 J	<50.0	0.641 J	<10.0	<10.0	
GW-6	28 - 32	11/13/2020	0.427 J	<1.00	<5.00	34.5 B J	0.35 J	0.33 J	0.302 J	**57.7**	0.376 J	8.5 J	0.595 J	ND
GW-7	30 - 34	11/12/2020	<1.00	<1.00	0.65 J	<100	<1.00	<1.00	<3.00	<50.0	2.2 J	<10.0	<10.0	
GW-8	30 - 34	11/12/2020	<1.00	<1.00	**11.2**	<100	<1.00	<1.00	<3.00	<50.0	**7.69**	<10.0	<10.0	

Notes:
MCLs = Maximum Contaminant Levels for drinking water.
ESL = Environmental Screening Level
Note 1 SFRWQCB ESL for groundwater vapor intrusion.
VOCs = Volatile Organic Compounds.
TPHg = Total Petroleum Hydrocarbons as gasoline.
PCE = Tetrachloroethene.
TCE = Trichloroethene.
µg/L = Micrograms per liter.
<0.500 = Not detected above noted laboratory reporting limit.
ND = Not detected above laboratory reporting limit.
J = Estimated value.

References:
Regional Water Quality Control Board, San Francisco Bay Region (RWQCB-SFB). 2019. Environmental Screening Levels (ESLs). Revision 2. January.

Table 5
Summary of Soil Vapor Analytical Results - VOCs
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Probe	Type	Probe Depth (feet bgs)	Date Sampled	PCE (µg/m³)	TCE (µg/m³)	cis-1,2-DCE (µg/m³)	Vinyl Chloride (µg/m³)	Freon-11 (µg/m³)	Freon-21 (µg/m³)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethylbenzene (µg/m³)	m,p-xylene (µg/m³)	o-xylene (µg/m³)	Naphthalene (µg/m³)	Acetone (µg/m³)	Carbon Disulfide (µg/m³)	Carbon Tetrachloride (µg/m³)	Chloromethane (µg/m³)
DTSC SL / USEPA RSL - Soil Vapor & Subslab Vapor Vapor Intrusion to Indoor Air - Commercial / Industrial [1]				67	100	1,200	5.3	180,000	15,000	--	14	43,000	160	--	15,000	12	4,600,000	100,000	67	13,000
DTSC SL / USEPA RSL - Soil Vapor & Subslab Samples Vapor Intrusion to Indoor Air - Residential[1]				15	16	280	0.32	43,000	3,300	--	3.2	10,000	37	--	3,300	2.8	1,100,000	24,000	16	3,100
SV-9 [2]	Soil Vapor Probe	4.5	11/16/2020	**7.74**	**1.08**	<0.793	<0.511	**3.16**	**3.71**	<826	**1.50**	**5.69**	**0.915**	**2.84**	**1.16**	<3.30	**24.2**	<0.622	<1.26	**1.39**
SV-10	Soil Vapor Probe	4.5	11/16/2020	**62.5**	<1.07	<0.793	<0.511	**13.0**	**8.51**	**1,670**	**4.34**	**2.75**	**7.93**	**6.07**	**0.993**	**10.9**	**48.0**	**39.2**	**1.69**	**0.537**
SV-11 [2]	Soil Vapor Probe	4.5	11/16/2020	**58.2**	<1.07	<0.793	<0.511	**5.36**	**6.92**	<826	<0.639	<1.88	**1.06**	**4.47**	**1.76**	<3.30	**12.4**	**2.86**	<1.26	<0.413

Table 5
Summary of Soil Vapor Analytical Results - VOCs
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Probe	Type	Probe Depth (feet bgs)	Date Sampled	Cyclohexane (µg/m^3)	1,4-Dioxane (µg/m^3)	Ethanol (µg/m^3)	4-Ethyltoluene (µg/m^3)	n-Hexane (µg/m^3)	Methylene Chloride (µg/m^3)	Methyl Butyl Ketone (µg/m^3)	2-Butanone (MEK) (µg/m^3)	4-Methyl-2-Pentanone (MIBK) (µg/m^3)	2-Propanol (µg/m^3)	Propene (µg/m^3)	Tetrahydrofuran (µg/m^3)	1,2,4-Trimethylbenzene (µg/m^3)	1,3,5-Trimethylbenzene (µg/m^3)	2,2,4-Trimethylpentane (µg/m^3)	1,1-Difluoroethane (Leak Check Compound) (µg/m^3)
DTSC SL / USEPA RSL - Soil Vapor & Subslab Vapor Vapor Intrusion to Indoor Air - Commercial / Industrial [1]				870,000	83	--	--	100,000	400	4,300	730,000	430,000	29,000	430,000	290,000	8,700	8,700	--	6,000,000
DTSC SL / USEPA RSL - Soil Vapor & Subslab Samples Vapor Intrusion to Indoor Air - Residential[1]				210,000	19	--	--	24,000	33	1,000	170,000	100,000	7,000	100,000	70,000	2,100	2,100	--	1,400,000
SV-9 [2]	Soil Vapor Probe	4.5	11/16/2020	<0.689	<0.721	**97.9**	<0.982	**2.57**	**3.65**	<5.11	<3.69	<5.12	**19.3**	<0.689	<0.590	**1.04**	<0.982	**1.77**	**38.9**
SV-10	Soil Vapor Probe	4.5	11/16/2020	**2.70**	**3.93**	**38.7**	**2.40**	**8.67**	<0.694	**10.8**	**29.8**	**9.66**	**5.21**	**4.12**	**9.85**	**9.42**	**1.61**	**9.11**	**8.62**
SV-11 [2]	Soil Vapor Probe	4.5	11/16/2020	<0.689	<0.721	**26.6**	<0.982	<2.22	**0.830**	<5.11	**3.98**	<5.12	**3.29**	<0.689	<0.590	<0.982	<0.982	<0.934	**18.0**

Notes:
Detections are indicated in **bold**.
Shaded cells exceed the allowable leak check compound concentration of 13.6 µg/m^3 (10-times the reporting limit of target analyte PCE [CalEPA, 2015]).
Volatile organic compounds (VOCs) measured by EPA Method TO-15.
bgs = below ground surface.
µg/m^3 = micrograms per cubic meter.
[1] The soil vapor screening level is calculated by dividing the air screening level by the USEPA default attenuation factor of 0.03 (USEPA, 2015). In order of priority, the screening level represents the DTSC-modified screening level (DTSC, 2020) followed by USEPA Regional Screening Level (RSL; USEPA, 2020).
[2] The analytical results idicated for SV-9 may be biased low due to potential ambient air leakage during sampling.
<1.00 = Not detected above indicated laboratory reporting limit.
TPHg = Total petroluem hydrocarbons as gasoline.
PCE = Tetrachloroethene.
TCE = Trichloroethene.

References:
Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, and San Francisco Regional Water Quality Control Board (CalEPA). 2015. Advisory – Active Soil Gas Investigations. July.
Department of Toxic Substances Control (DTSC). 2011. Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air. October.
DTSC. 2020. Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC SLs). Human and Ecological Risk Office (HERO). June.
U.S. Environmental Protection Agency (USEPA). 2020. Regional Screening Levels (TR=1E-06, HQ=1). May.

Table 6
Summary of Soil Vapor Analytical Results - Fixed Gases
5601 – 5643 Santa Monica Boulevard
Los Angeles, California

Sample ID	Depth (feet bgs)	Sample Date	Oxygen (%)	Carbon Monoxide (%)	Carbon Dioxide (%)	Methane (%)
SV-9	4.5	11/16/2020	22.4	<2.00	<0.500	<0.400
SV-10	4.5	11/16/2020	22.9	<2.00	<0.500	<0.400
SV-11	4.5	11/16/2020	22.5	<2.00	<0.500	<0.400

Notes:
Fixed gases analyzed by ASTM Method D-1946.
Bold values were reported above laboratory detection limits.
bgs = Below ground surface.
% = Percent.
<0.100 = Not detected above the noted laboratory reporting limit.

ATTACHMENT A

Tables and Figures from Historical Phase II Reports

Soil and Groundwater Assessment Report

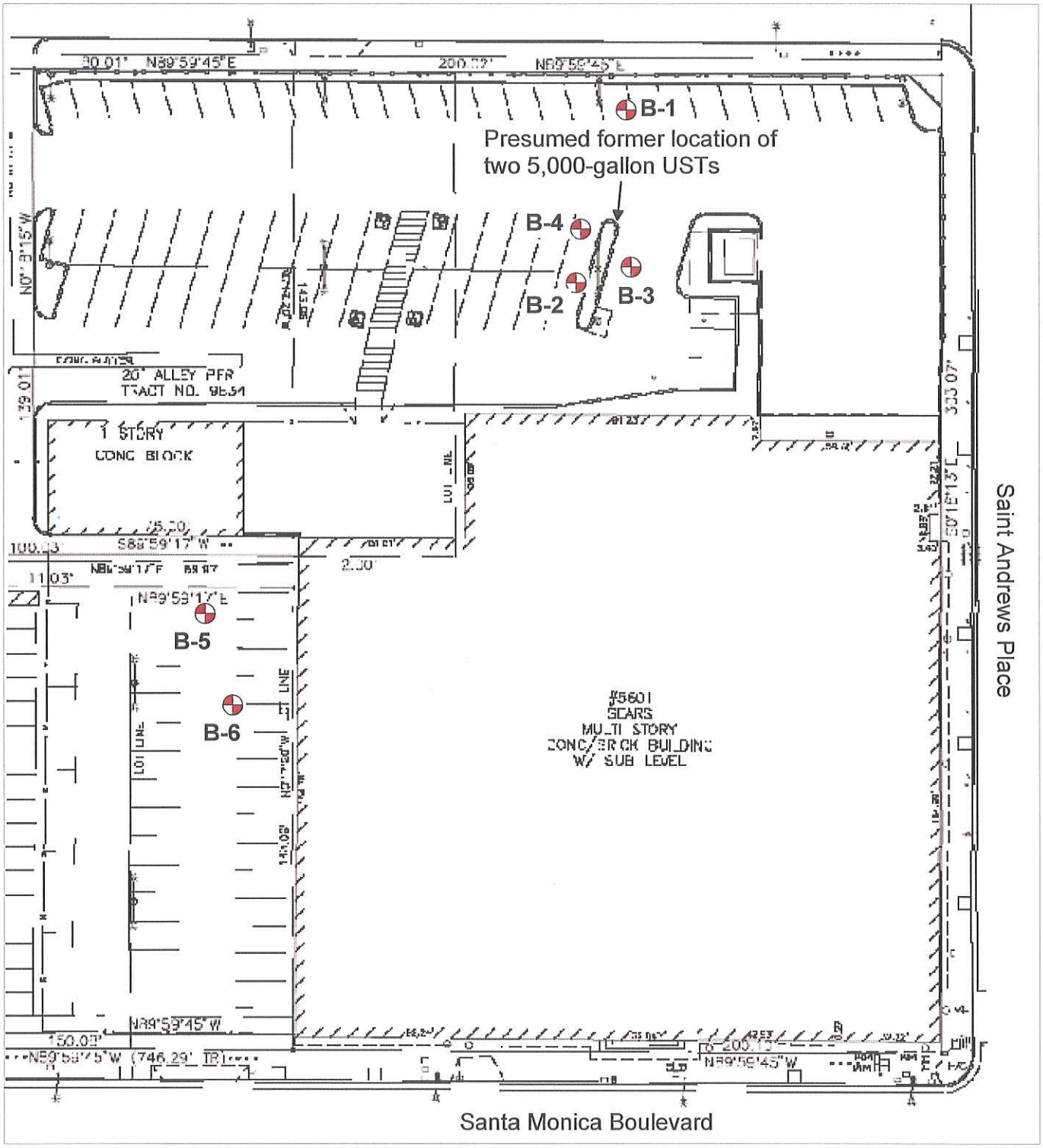
Sears Hollywood Property
5601 Santa Monica Boulevard
Los Angeles, California

Privileged and Confidential
Attorney Work Product

Prepared for:
Jeffer, Mangels, Butler & Marmaro, LLP

Prepared by:

Rincon Consultants, Inc.
December 7, 2006



Boring Location

NORTH

0 50 100

Scale in Feet

rincon

Boring Location Map

5601 Santa Monica Boulevard
Los Angeles, California

Figure 2

Table 1 - Soil Results

Boring	Depth (feet)	Total Petroleum Hydrocarbons			SVOCs (µg/kg)	BTEX (µg/kg)	Oxygenates (µg/kg)	Lead (mg/kg)
		Gasoline Range Organics (µg/kg)	Diesel Range Organics (mg/kg)	Oil Range Organics (mg/kg)				
B1	5	--	--	--	--	--	--	4.83
	10	--	--	--	--	--	--	4.90
	15	--	--	--	--	--	--	2.80
	20	--	--	--	--	--	--	3.72
	25	--	--	--	--	--	--	1.80
B2	5	--	--	--	--	--	--	5.03
	10	--	--	--	--	--	--	3.50
	15	--	--	--	--	--	--	2.90
	20	--	--	--	--	--	--	4.41
	25	--	--	--	--	--	--	3.50
B3	5	--	--	--	--	--	--	5.34
	10	--	--	--	--	--	--	3.30
	15	--	--	--	--	--	--	3.74
	20	--	--	--	--	--	--	3.00
	25	--	--	--	--	--	--	2.30
B4	5	--	--	--	--	--	--	23.0
	10	--	--	--	--	--	--	2.50
	15	--	--	--	--	--	--	3.03
	20	--	--	--	--	--	--	2.40
	25	--	--	--	--	--	--	3.13

Table 1 - Soil Results

Boring	Depth (feet)	Total Petroleum Hydrocarbons			SVOCs (µg/kg)	BTEX (µg/kg)	Oxygenates (µg/kg)	Lead (mg/kg)
		Gasoline Range Organics (µg/kg)	Diesel Range Organics (mg/kg)	Oil Range Organics (mg/kg)				
B5	5	--	--	--	--	--	--	2.52
	10	--	--	--	--	--	--	2.20
	15	--	--	--	--	--	--	1.83
	20	--	--	--	--	--	--	2.60
	25	--	--	--	--	--	--	3.12
B6	5	--	--	--	--	--	--	2.80
	10	--	--	--	--	--	--	1.84
	15	--	--	--	--	--	--	2.10
	20	--	--	--	--	--	--	3.12
	25	--	--	--	--	--	--	1.50
Detection Limit		500	10	50	1000	Varies	Varies	0.25

Notes

SVOCs = Semi Volatile Organic Compounds
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
mg/kg = milligrams per kilogram (parts per million)
µg/kg = micrograms per kilogram (parts per billion)
TPH-gasoline, BTEX and Oxygenates by EPA Method 8260B
TPH-diesel and oil range by EPA Method 8015D
SVOCs by EPA Method 8270C
Total Lead by EPA Method 7421

Table 2 - Groundwater Results

Boring	Total Petroluem Hydrocarbons			SVOCs (µg/L)	BTEX (µg/L)	Oxygenates (µg/L)	Lead (mg/L)
	Gasoline Range Organics (µg/L)	Diesel Range Organics (mg/L)	Oil Range Organics (mg/L)				
B1	924	--	--	--	--	--	--
B2	99	--	--	--	--	--	--
B4	--	--	--	--	--	--	--
B6	--	--	--	--	--	--	--
Detection Limit	50	0.5	0.5	Varies	Varies	Varies	0.005

Notes: -- = Non Detect
mg/L = milligrams per liter (parts per million)
µg/L = micrograms per liter (parts per billion)
TPH-gasoline, BTEX and Oxygenates by EPA Method 8260B
TPH-diesel and oil range by EPA Method 8015D
SVOCs by EPA Method 8270C
Total Lead by EPA Method 7421

PHASE II ENVIRONMENTAL SITE ASSESSMENT

5609-5667 Santa Monica Boulevard, 5542 Virginia Avenue, and 5545 Virginia Avenue
Los Angeles, California

Prepared For:

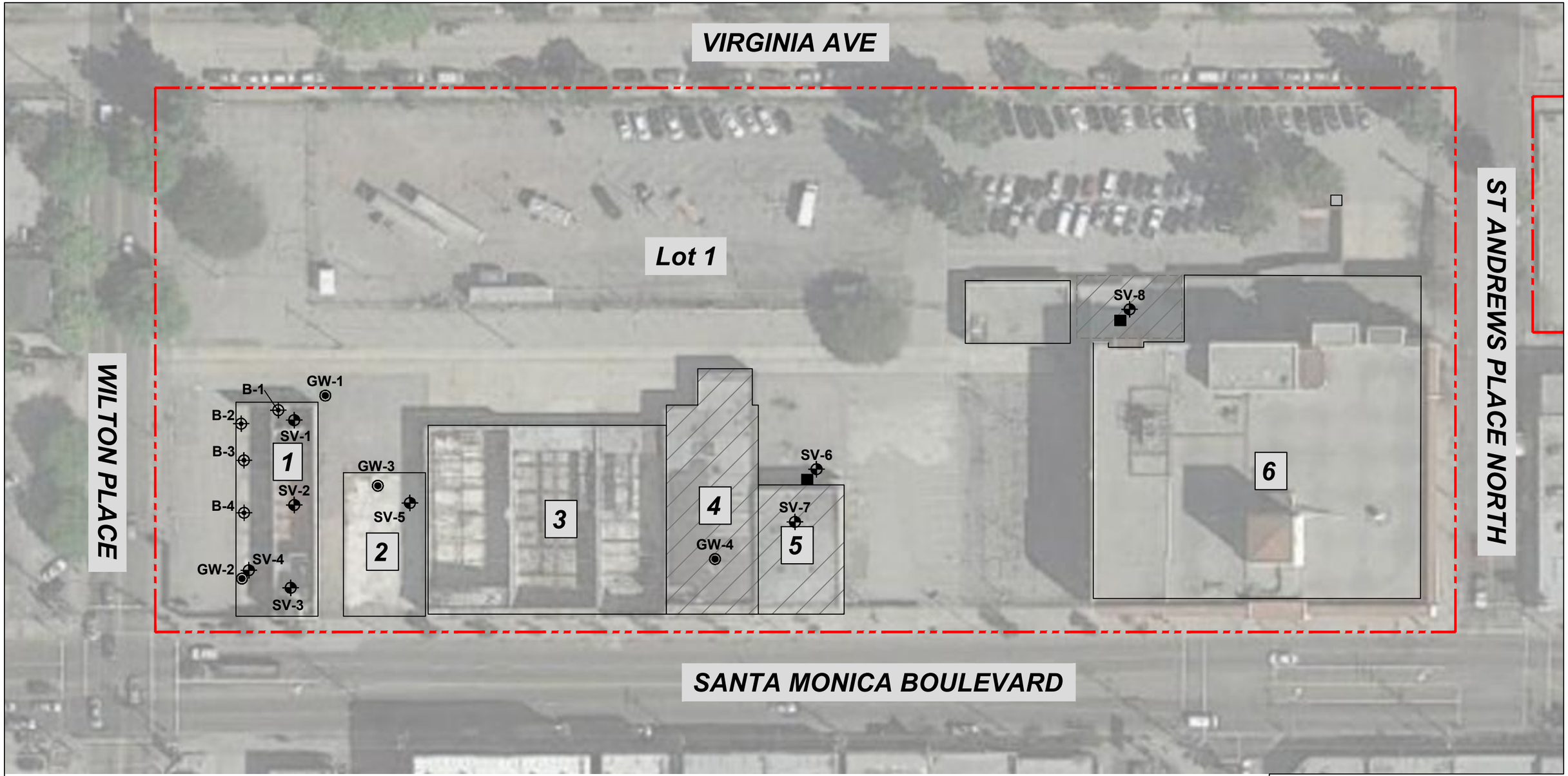
5545 Virginia Ave Owner, LLC
5544 Virginia Ave Owner, LLC
5601-5667 Santa Monica Blvd. (LA) Owner, LLC

Prepared By:

Northgate Environmental Management, Inc.
24411 Ridge Route Drive, Suite 130
Laguna Hills, California 92653

March 14, 2016

Project No. 2050.10.02S



LEGEND:

- Site Boundary
- 1 — Building Outline and I.D. - see table at right
- B-1 — Soil Boring Location with Soil Samples
- SV-1 — Soil Boring Location with Soil Vapor Probe
- GW-1 — Soil Boring Location with Soil Samples and Grab Groundwater Samples
- Floor Drain
- LADWP Transformer
- Dismantled Auto Storage Areas
- Covered Alcove Area

Building Details

1 Sears Auto Center - 5667 West Santa Monica Boulevard (see detail on Figure 4)
2 Former 99 Cents Store building foundation - 5665 West Santa Monica Boulevard
3 Linoleum City - 5657 West Santa Monica Boulevard
4 Former Howie's Liquor and Junior Store
5 Former Warehouse Shoe Sale Store - 5645 West Santa Monica Boulevard
6 Sears - 5601 West Santa Monica Boulevard

0 30 60
Scale (Feet)

N

FIGURE 3
Boring Location Map

Phase II Environmental Site Assessment
5667 West Santa Monica Boulevard
Los Angeles, California

northgate environmental management, inc.

Project No. 2050.10

TABLE 1
Soil Sample Analytical Results - Volatile Organic Compounds

Sample Identification	Sample Depth (feet bgs)	Sample Date	EPA Method 8260B							
			Benzene	Toluene	Ethylbenzene	m,p- Xylenes	o-Xylene	PCE	TCE	Other VOCs
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
B1@5'	5.0	9/30/2015	<4.5	<4.5	<4.5	<9.0	<4.5	<4.5	<4.5	ND
B1@10'	10.0	9/30/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
B2@5'	5.0	9/30/2015	--	--	--	--	--	--	--	NA
B2@10'	10.0	9/30/2015	--	--	--	--	--	--	--	NA
B2@15'	15.0	9/30/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
B3@5'	5.0	9/30/2015	--	--	--	--	--	--	--	ND
B3@10'	10.0	9/30/2015	--	--	--	--	--	--	--	ND
B3@15'	15.0	9/30/2015	<8.7	<8.7	<8.7	<17	<8.7	<8.7	<8.7	ND
B4@5'	5.0	9/30/2015	--	--	--	--	--	--	--	ND
B4@10'	10.0	9/30/2015	--	--	--	--	--	--	--	ND
B4@15'	15.0	9/30/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-1@15'	15.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-1@20'	20.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-1@25'	25.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-2@10'	10.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-2@25'	25.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-3@5'	5.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-3@20'	20.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND

TABLE 1
Soil Sample Analytical Results - Volatile Organic Compounds

Sample Identification	Sample Depth (feet bgs)	Sample Date	EPA Method 8260B							
			Benzene	Toluene	Ethylbenzene	m,p- Xylenes	o-Xylene	PCE	TCE	Other VOCs
			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
GW-4@5'	5.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
GW-4@15'	15.0	10/1/2015	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	ND
Residential Soil RSL			1,100	5,000,000	5,400	600,000	690,000	22,000	910	NA
Industrial Soil RSL			5,400	45,000,000	27,000	2,600,000	3,000,000	110,000	6,400	NA

Notes:

EPA: Environmental Protection Agency
bgs: Below ground surface
PCE: Tetrachloroethene
TCE: Trichloroethene
VOCs: Volatile organic compounds

µg/kg: Micrograms per kilogram
<: Not detected at or above the indicated laboratory method reporting limit
ND: Not detected, reporting limits vary for each compound
RSL = EPA Region 9 Regional Screening Level, updated November 2012
NA: Not applicable
--: Not analyzed

TABLE 2
Soil Sample Analytical Results - Total Petroleum Hydrocarbons

Sample Location (Relative Depth)	Sample Depth (ft bgs)	Date of Collection	Total Petroleum Hydrocarbons EPA Method 8015C		
			C6-C12 TPH - Gasoline (GRO)	C13-C28 TPH - Diesel (DRO)	C29-C40 TPH - Motor Oil (MORO)
			(mg/kg)	(mg/kg)	(mg/kg)
B1@5'	5.0	9/30/2015	<0.220	<10	<10
B1@10'	10.0	9/30/2015	<0.190	<10	<10
B2@5'	5.0	9/30/2015	<0.200	<10	<10
B2@10'	10.0	9/30/2015	<0.650	<10	<10
B2@15'	15.0	9/30/2015	<0.280	<10	<10
B3@5'	5.0	9/30/2015	<0.170	<10	<10
B3@10'	10.0	9/30/2015	<0.290	17	<10
B3@15'	15.0	9/30/2015	<0.670	<10	<10
B4@5'	5.0	9/30/2015	<0.220	<10	<10
B4@10'	10.0	9/30/2015	<0.180	<10	<10
B4@15'	15.0	9/30/2015	<0.190	<10	<10
GW-1@15'	15.0	10/2/2015	<0.20	<10	<10
GW-1@20'	20.0	10/2/2015	<0.24	<10	<10
GW-1@25'	25.0	10/2/2015	<0.36	<10	<10
GW-2@10'	10.0	10/2/2015	<0.18	<10	<10
GW-2@25'	25.0	10/2/2015	<0.21	<10	<10
RWQCB TPH Max SSL 20 to 150 feet Above Groundwater			500	1,000	10,000

Notes:

EPA: Environmental Protection Agency
bgs: Below ground surface
mg/kg: Milligrams per kilogram
<: Not detected at or above the indicated laboratory method reporting limit
---: Not tested
RWQCB: Regional Water Quality Control Board - Los Angeles Region
TPH: Total petroleum hydrocarbon
SSL - RWQCB Maximum Soil Screening Levels - Distance above groundwater 20 - 150 feet, Interim Site Assessment Cleanup Guidance, May, 1996.

TABLE 3
Groundwater Analytical Results - Volatile Organic Compounds

Sample Identification	Sample Date	EPA Method 8260B			
		Trichlorofluoromethane (Freon 11)	Chloroform	Tetrachloroethene (PCE)	Other VOCs
		µg/L	µg/L	µg/L	µg/L
GW-1	10/1/2015	5.3	1.4	3.3	ND
GW-2	10/1/2015	6.1	13	<1.0	ND
GW-3	10/1/2015	21	14	1.4	ND
GW-4	10/1/2015	4.3	<1.0	<1.0	ND
California EPA MCLs		150	NE	5.0	NA

Notes:

EPA: Environmental Protection Agency
MCL: Maximum contaminant level
NA: Not available
NE: None established
ND: Not detected
µg/L: Micrograms per liter
VOCs: Volatile organic compounds

TABLE 4
Groundwater Analytical Results - Total Petroleum Hydrocarbons

Sample Location (Relative Depth)	Date of Collection	Total Petroleum Hydrocarbons EPA Method 8015C		
		C6-C12 TPH - Gasoline (GRO)	C13-C28 TPH - Diesel (DRO)	C29-C40 TPH - Motor Oil (MORO)
		(mg/l)	(mg/l)	(mg/l)
GW-1	10/1/2015	<0.50	<0.50	<0.50
GW-2	10/1/2015	<0.50	<0.50	<0.50
GW-3	10/1/2015	<0.50	<0.50	<0.50
GW-4	10/1/2015	<0.05	<0.50	<0.50
RWQCB TPH Max SSL 20 to 150 feet Above Groundwater		500	1,000	10,000

Notes:

EPA: Environmental Protection Agency
mg/l: Milligrams per liter
<: Not detected at or above the indicated laboratory method reporting limit
---: Not tested
RWQCB: Regional Water Quality Control Board - Los Angeles Region
TPH: Total petroleum hydrocarbon
SSL - RWQCB Maximum Soil Screening Levels - Distance above groundwater 20 - 150 feet, Interim Site Assessment Cleanup Guidance, May, 1996.

TABLE 5
Groundwater Analytical Results - Title 22 Metals

Sample Location	Date of Collection	CCR Title 22 Metals EPA Method 6010B and 7470/7471															
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
		µg/l																
GW-1	10/1/2015	<50	<50	95	<50	<50	<50	<50	<50	<50	82	1.7	<50	<50	<50	<50	<50	<50
California MCL		6	10	1,000	4	5	50	NE	1,300	15	NE	2	100	50	NE	2	NE`	NE

Notes:

CCR: California Code of Regulations
EPA: Environmental Protection Agency
µg/l: milligrams per liter
<: Not detected at or above the indicated laboratory method reporting limit
MCL: Maximum Contaminant Level
NE: Not established

TABLE 6
Soil Vapor Analytical Results - Volatile Organic Compounds

Sample Identification	Sample Date	EPA Method TO-15					
		Methylene Chloride (Dichloromethane)	Chloroform	Benzene	PCE	Naphthalene	Other VOCs
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
SV-2	10/1/2015	<0.50	<0.10	**0.14**	<0.10	<0.10	ND
SV-3	10/1/2015	0.67	<0.10	**0.13**	<0.10	<0.10	ND
SV-4	10/1/2015	<0.50	0.11	<0.10	0.16	<0.10	ND
SV-4 Rep	10/1/2015	<0.50	<0.10	<0.10	0.13	<0.10	ND
SV-5	10/1/2015	<0.50	<0.10	0.11	<0.10	**0.22**	ND
SV-6	10/1/2105	<0.50	<0.10	<0.10	<0.10	<0.10	ND
SV-7	10/1/2015	<0.50	<0.10	<0.10	<0.10	<0.10	ND
SV-8	10/1/2015	0.62	0.12	0.12	<0.10	<0.10	ND
Commercial/Industrial CHHSL - Shallow Soil Gas		NE	NE	0.122	0.603	0.106	NA
Residential - Shallow Soil Gas		NE	NE	0.036	0.180	0.032	NA

Notes:

EPA: Environmental Protection Agency
bgs: Below ground surface
PCE: Tetrachloroethene
VOCs: Volatile organic compounds
µg/L: Micrograms per liter

<: Not detected at or above the indicated laboratory method reporting limit
ND: Not detected, reporting limits vary for each compound
CHHSL: California Human Health Screening Level
NA: Not applicable
NE: None established
bold: Concentration exceeded one or more screening levels

ATTACHMENT B
Well Permit

ENVIRONMENTAL HEALTH

Drinking Water Program

5050 Commerce Drive, Baldwin Park, CA 91706
Telephone: (626) 430-5420 • http://publichealth.lacounty.gov/eh/ep/dw/dw_main.htm

Work Plan Approval

WORK SITE ADDRESS	CITY	ZIP	EMAIL ADDRESS
Bardas 5643 Santa Monica Blvd / APN 5536-012-017	Los Angeles	90038	kduey@rmdes.net

NOTICE:

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

TO BE COMPLETED BY DEPARTMENT OF PUBLIC HEALTH—DRINKING WATER PROGRAM:

X	**WORK PLAN APPROVED** FOR: 5 soil borings to ~ 38 feet bgs.	**PERMIT NUMBER:**	SR0237832	**DATE:**	November 6, 2020

ADDITIONAL APPROVAL CONDITIONS:

- Work plan approval is issued for scope of work submitted to the Drinking Water Program. Any modifications to the scope of work will require additional work plan review.
- Soil borings shall be sealed pursuant to Section 9 and Appendix B of *California Well Standards - Bulletins 74-90 & Bulletins 74-81* respectively.
  - For Portland cement, it shall be mixed at a ratio of one 94-pound sack of Portland cement 5 to 6 gallons of 'clean' water.
  - ***Up to 6%*** of bentonite may be added to the cement mixture at a ratio of two (2) pounds of bentonite one (1) gallon of 'clean' water, or in accordance with the manufacturer's specification.
  - No hydrated bentonite is permitted.
- Sealing materials shall be applied under pressure - from *the bottom of the well or boring proceeding upward in one continuous operation via a tremie pipe or equivalent* - to prevent freefall, jamming or "bridging", voids, dilution of sealing materials, and/or prevent separation of aggregate from sealants.
- Drill cuttings and wastewater shall be disposed of in accordance with all applicable federal, State, and local requirements.
- Sealing materials shall meet *National Sanitation Foundation (NSF 61)* standard.
- Provide temporary cover to the borehole opening whenever work is interrupted.
- Borings or exploration holes must comply with all applicable requirements published in the *California Well Standards (Bulletins 74-81 and 74-90 combined)* and the *Los Angeles County Code, Title 11.*

REHS NO: 5841

Quang Ly, REHS

ATTACHMENT C

Boring Logs and Field Data Sheets

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **B-5**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA	**Project No.** 01-BAR-001	
BORING LOCATION (AT SITE):		**Logged By:** P. Gomez-Birenbaum	
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	--	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	5 feet bgs	**BORING DIAMETER/DEPTH:**	2.25 inches to 5 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
1120	0.0				1		Lean clay with sand (CL), very dark brown (10YR 2/2), moist, stiff, poorly graded fine-grained sand, low plasticity, no odor, (5,15,5,75).	
1123	0.0				2			
1128	0.0				3		(0,20,5,75).	
1132	0.0				4		Silt with sand (ML), dark brown (10YR 3/3), moist, medium stiff, poorly graded fine-grained sand, non-plastic, no odor, (0,20,80,0).	
1138	0.0				5		End of borehole at five feet bgs. Borehole backfilled with hydrated bentonite.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **B-6**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA	**Project No.** 01-BAR-001	
BORING LOCATION (AT SITE):		**Logged By:** P. Gomez-Birenbaum	
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	--	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	5 feet bgs	**BORING DIAMETER/DEPTH:**	2.25 inches to 5 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
1155	0.0						Lean clay with sand (CL), very dark brown (10YR 2/2), moist, stiff, poorly graded fine-grained sand, plasticity, no odor, (5,15,5,75).	
					1			
1158	0.0						Silt with sand (ML), dark brown (10YR 3/3), moist, medium stiff, poorly graded fine-grained sand, non-plastic, no odor, (0,20,80,0).	
1202	0.0				2			
1205	0.0				3			
1209	0.0				4			
					5		End of borehole at five feet bgs. Borehole backfilled with hydrated bentonite.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **B-7**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA		**Project No.** 01-BAR-001
BORING LOCATION (AT SITE):			**Logged By:** P. Gomez-Birenbaum
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	--	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	5 feet bgs	**BORING DIAMETER/DEPTH:**	2.25 inches to 5 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
1230	0.0				1		Lean clay with sand (CL), very dark brown (10YR 2/2), moist, stiff, poorly graded fine-grained sand, low plasticity, no odor, (5,15,5,75).	
1234	0.0				2		Silt with sand (ML), dark brown (10YR 3/3), moist, medium stiff, poorly graded fine-grained sand, non-plastic, no odor, (0,20,80,0).	
1238	0.0				3			
1241	0.0				4			
1245	0.0				5		End of borehole at five feet bgs. Borehole backfilled with hydrated bentonite.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **B-8**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA	**Project No.** 01-BAR-001	
BORING LOCATION (AT SITE):		**Logged By:** P. Gomez-Birenbaum	
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	--	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	5 feet bgs	**BORING DIAMETER/DEPTH:**	2.25 inches to 5 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
0940	0.0				1		Lean clay with sand (CL), very dark brown (10YR 2/2), moist, medium stiff, poorly graded fine-grained sand, low plasticity, no odor, (5,15,5,75).	
0944	0.0				2		Stiff, (0,15,5,80).	
0948	0.0				3			
0953	0.0				4			
0958	0.0				5		End of borehole at five feet bgs. Borehole backfilled with hydrated bentonite.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **B-9**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA		**Project No.** 01-BAR-001
BORING LOCATION (AT SITE):			**Logged By:** P. Gomez-Birenbaum
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	--	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	5 feet bgs	**BORING DIAMETER/DEPTH:**	2.25 inches to 5 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
1020	0.0				1		Lean clay with sand (CL), very dark brown (10YR 2/2), moist, stiff, poorly graded fine-grained sand, low plasticity, no odor, (5,15,5,75).	
1024	0.0				2		(0,20,5,75).	
1028	0.0				3		Silt with sand (ML), dark brown (10YR 3/3), moist, medium stiff, poorly graded fine-grained sand, non-plastic, no odor, (0,20,80,0).	
1032	0.0				4			
1037	0.0				5		End of borehole at five feet bgs. Borehole backfilled with hydrated bentonite.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **GW-5**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA		**Project No.** 01-BAR-001
BORING LOCATION (AT SITE):			**Logged By:** P. Gomez-Birenbaum
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	30 feet	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	36 feet bgs	**BORING DIAMETER/DEPTH:**	2.25" to 5 feet bgs / 2" to 36 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
1047	0.0				1		Lean clay with sand (CL), very dark brown (10YR 2/2), moist, stiff, poorly graded fine-grained sand, low plasticity, no odor, (5,15,5,75).	
1052	0.0				2		(0,20,5,75). Very dark grayish brown (10YR 3/2).	
1053	0.0				3		Silt with sand (ML), dark brown (10YR 3/3), moist, medium stiff, poorly graded fine-grained sand, non-plastic, no odor, (0,20,80,0).	
1056	0.0				4			
1059	0.0				5		Boring advanced to 36 feet bgs. Temporary screen set at 32-36 feet bgs. Grab groundwater sample GW-5 collected at 1154. Borehole backfilled with bentonite grout.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **GW-6**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA	**Project No.** 01-BAR-001	
BORING LOCATION (AT SITE):		**Logged By:** P. Gomez-Birenbaum	
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	33 feet	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	38.5 feet bgs	**BORING DIAMETER/DEPTH:**	2.25" to 5 feet bgs / 2" to 36 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
0739	0.0				1		Silty sand (SM), very dark brown (10YR 2/2), moist, well graded fine- to medium- grained sand, non-plastic, no odor, (5,70,25,0).	
0745	0.0						Poorly graded fine-grained sand, (0,80,20,0)	
0749	0.0				2		Silt with sand (ML), very dark brown (10YR 2/2), moist, poorly graded fine-grained sand, non-plastic, no odor, (0,20,80,0).	
0753	0.0				3			
0756	0.0				4		Dark brown (7.5YR 3/4).	
					5		Boring advanced to 38.5 feet bgs. Temporary screen set at 34.5-38.5 feet bgs. Grab groundwater sample GW-6 collected at 1326. Borehole backfilled with bentonite grout.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **GW-7**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA		**Project No.** 01-BAR-001
BORING LOCATION (AT SITE):	Southwest corner		**Logged By:** P. Gomez-Birenbaum
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	33 feet	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	38 feet bgs	**BORING DIAMETER/DEPTH:**	2.25" to 5 feet bgs / 2" to 38 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		7" asphalt.	
1634	0.0						Clayey sand with gravel (SC), dark brown (10YR 3/3), moist, well graded fine- to medium-grained	
					1		non-plastic, no odor, (15,50,5,30).	
1638	0.0						Silty sand (SM), dark brown (10YR 3/3), moist, poorly graded fine-grained sand, non-plastic, no	
					2		odor, (5,75,20,0).	
1644	0.0						Brown (10YR 4/3).	
					3		Well graded sand with silt and gravel (SW-SM), dark brown (10YR 3/3), moist, fine- to medium-	
1658	0.0						grained sand, non-plastic, no odor, (10,80,10,0).	
					4		Silty sand (SM), dark brown (10YR 3/3), moist, fine- to medium-grained sand, non-plastic, no odor,	
1654	0.0						(0,80,20,0).	
					5		Boring advanced to 38 feet bgs.	
					6		Temporary screen set at 34-38 feet bgs.	
					7		Grab groundwater sample GW-7 collected at 1732.	
					8		Borehole backfilled with bentonite grout.	
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID:

GW-8

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA		**Project No.** 01-BAR-001
BORING LOCATION (AT SITE):	Southern Portion, Former Building 2		**Logged By:** P. Gomez-Birenbaum
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	33 feet	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	38 feet bgs	**BORING DIAMETER/DEPTH:**	2.25" to 5 feet bgs / 2" to 38 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other)	Borehole Construction Details
					0		4" concrete.	
1435	2.9				1		Lean clay with trace silt (CL), very dark gray (10YR 3/1), moist, low plasticity, no odor, (0,0,5,95).	
1439	0.0				2		Very dark grayish brown (10YR 3/2).	
1442	1.3				3		Lean clay with sand (CL), dark brown (10YR 3/3), moist, well graded fine-grained sand, low plasticity, no odor, (0,15,5,80).	
1448	0.0				4		Clayey sand (SP), brown (10YR 4/3), poorly graded fine-grained sand, non-plastic, no odor, (0,80,5,15).	
1453	0.0				5		Boring advanced to 38 feet bgs. Temporary screen set at 34-38 feet bgs. Grab groundwater sample GW-8 collected at 1550. Borehole backfilled with bentonite grout.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

BORING/WELL ID: **GW-9**

PROJECT NAME AND ADDRESS:	Bardas - 5601-5643 Santa Monica Blvd., Los Angeles, CA		**Project No.** 01-BAR-001
BORING LOCATION (AT SITE):			**Logged By:** P. Gomez-Birenbaum
CONTRACTOR AND EQUIPMENT:	Strongarm Env Field Services, Inc. / Track-Mtd Geoprobe 662		
SAMPLING METHOD:	Split Spoon	**MONITORING DEVICE:**	PID
START DATE/ (TIME):	11/13/20	**FINISH DATE/ TIME**	11/13/20
FIRST WATER (BGS):	33 feet	**STABILIZED WATER LEVEL:**	--
SURFACE ELEVATION:	--	**CASING TOP ELEVATION:**	--
TOTAL BORING DEPTH(S):	38 feet bgs	**BORING DIAMETER/DEPTH:**	2.25" to 5 feet bgs / 2" to 38 feet bgs

Time	PID Reading	Water Level	Sample Interval	Recovery (%)	Depth (feet)	Stratigraphy	LITHOLOGIC DESCRIPTION (classification, color, moisture, density, grain size/plasticity, other) Percentages of Composition (Gravel, Sand, Silt, Clay)	Borehole Construction Details
					0		4" asphalt.	
0849	0.0						Clayey sand with gravel (SC), very dark brown (10YR 2/2), moist, medium dense, poorly graded fine-grained sand, non-plastic no odor, (15,50,5,30).	
					1			
0853	0.0						Silt with sand (ML), very dark brown (10YR 2/2), moist, stiff, poorly graded fine-grained sand, non-plastic, no odor, (0,20,80,0).	
0858	0.0				2			
					3		Silty sand (SM), dark brown (7.5YR 3/4), moist, medium dense, poorly graded fine-grained sand, non-plastic, no odor, (0,80,20,0).	
0903	0.0							
					4			
0907	0.0							
					5		Boring advanced to 38 feet bgs. Temporary screen set at 34-38 feet bgs. Grab groundwater sample not collected. Dry boring. Borehole backfilled with bentonite grout.	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			

RMD ENVIRONMENTAL SOLUTIONS

Soil Vapor Field Measurement Log

Date:	11/16/2020	Sampler:	Ryan McVeigh
Client:	Bardas	Project #:	01-BAR-001
Container Type:	1 Liter Summa	Container ID:	
Sample ID:	SV-9	Manifold ID:	8635
Duplicate Sample ID			
Weather: Sunny	Temperature: 60	Precipitation:	NA

Sampling Device:			
Leak Test:	Shut-In 25 in Hg	Leak Check Compound: 1,1-DFA	
Purge Volume:	3		
Purge Start Time:	759	Purge End Time:	810
Sample Start Time:	822	Sample End Time:	842
Start Vacuum:	25 in Hg	End Vacuum:	5 in Hg

Field Measurements

Time	Flow (mL/min)	Vacuum (in Hg)	Comments
759	200		

Notes

Sampler's Signature: _____

RMD ENVIRONMENTAL SOLUTIONS

Soil Vapor Field Measurement Log

Date:	11/6/202	Sampler:	Dan McVeigh
Client:	Bardas	Project #:	01-BAR-001
Container Type:	1 liter Summa	Container ID:	
Sample ID:	SV-10	Manifold ID:	8637
Duplicate Sample ID			
Weather: Sunny	Temperature: 60	Precipitation:	NA
Sampling Device:			
Leak Test:	Shut-In 48in H_2O	Leak Check Compound: 1,1-DFA	
Purge Volume:	3		
Purge Start Time:	836	Purge End Time:	837
Sample Start Time:	840	Sample End Time:	840
Start Vacuum:	29	End Vacuum:	5

Field Measurements

Time	Flow (mL/min)	Vacuum (in Hg)	Comments
836	200		

Notes

Sampler's Signature: _____

RMD ENVIRONMENTAL SOLUTIONS

Soil Vapor Field Measurement Log

Date:	11/16/2020	Sampler:	Jon McVeigh
Client:	Bardas	Project #:	01-BAR-001
Container Type:	1 Liter Summa	Container ID:	
Sample ID:	SV-11	Manifold ID:	7836
Duplicate Sample ID			
Weather: Sunny	Temperature: 60	Precipitation: NA	
Sampling Device:			
Leak Test:	Shut-In 40 in H_2O	Leak Check Compound: 1,1-DFA	
Purge Volume:	3		
Purge Start Time:	843	Purge End Time:	854
Sample Start Time:	858	Sample End Time:	858
Start Vacuum:	29	End Vacuum:	5

Field Measurements

Time	Flow (mL/min)	Vacuum (in Hg)	Comments
843	200		

Notes

Sampler's Signature: _____

ATTACHMENT D
Laboratory Analytical Reports

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 25, 2020

RMD Environmental - Walnut Creek, CA

Sample Delivery Group:	L1286255
Samples Received:	11/16/2020
Project Number:	01-BAR-001
Description:	01-BAR-001

Report To: Paola Gomez-Birenbaum
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Entire Report Reviewed By:

Jared Starkey
Project Manager

B-5-COMP L1286255-01 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580218	1	11/22/20 00:11	11/22/20 00:35	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:17	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 18:54	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580433	1	11/21/20 18:09	11/22/20 15:59	JN	Mt. Juliet, TN

B-6-COMP L1286255-02 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580354	1	11/23/20 08:12	11/23/20 08:22	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:25	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 18:06	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580433	1	11/21/20 18:09	11/22/20 14:46	JN	Mt. Juliet, TN

B-7-COMP L1286255-03 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580354	1	11/23/20 08:12	11/23/20 08:22	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:27	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 18:57	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1580433	1	11/21/20 18:09	11/22/20 15:16	JN	Mt. Juliet, TN

B-8-COMP L1286255-04 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580876	1	11/23/20 08:00	11/23/20 08:10	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:30	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 19:01	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1581540	1	11/24/20 15:15	11/24/20 23:25	JN	Mt. Juliet, TN

B-9-COMP L1286255-05 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580876	1	11/23/20 08:00	11/23/20 08:10	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:32	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 19:04	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1581540	1	11/24/20 15:15	11/24/20 22:42	JN	Mt. Juliet, TN

GW-5-COMP L1286255-06 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580876	1	11/23/20 08:00	11/23/20 08:10	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:35	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 19:08	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1581540	1	11/24/20 15:15	11/24/20 22:27	JN	Mt. Juliet, TN

GW-6-COMP L1286255-07 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580876	1	11/23/20 08:00	11/23/20 08:10	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:37	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 17:38	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1581540	1	11/24/20 15:15	11/24/20 23:39	JN	Mt. Juliet, TN

GW-7-COMP L1286255-08 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580876	1	11/23/20 08:00	11/23/20 08:10	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:40	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 17:42	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/22/20 17:16	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1581540	40	11/24/20 15:15	11/24/20 23:54	JN	Mt. Juliet, TN

GW-8-COMP L1286255-09 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580876	1	11/23/20 08:00	11/23/20 08:10	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:43	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 17:45	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1581540	1	11/24/20 15:15	11/24/20 22:56	JN	Mt. Juliet, TN

GW-9-COMP L1286255-10 Solid

Collected by: PGB | Collected date/time: 11/13/20 00:00 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1580876	1	11/23/20 08:00	11/23/20 08:10	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1580345	1	11/21/20 10:43	11/23/20 08:45	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1580169	5	11/21/20 08:22	11/21/20 17:49	LD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1581540	1	11/24/20 15:15	11/24/20 23:10	JN	Mt. Juliet, TN

B-5-3 L1286255-11 Solid

Collected by: PGB | Collected date/time: 11/13/20 11:28 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579968	1	11/21/20 01:41	11/21/20 01:53	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1.04	11/13/20 11:28	11/23/20 02:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1.18	11/13/20 11:28	11/21/20 17:51	JHH	Mt. Juliet, TN

B-6-3 L1286255-12 Solid

Collected by: PGB | Collected date/time: 11/13/20 12:02 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579968	1	11/21/20 01:41	11/21/20 01:53	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1.07	11/13/20 12:02	11/23/20 03:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1.14	11/13/20 12:02	11/21/20 18:10	JHH	Mt. Juliet, TN

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

B-7-3 L1286255-13 Solid

Collected by: PGB | Collected date/time: 11/13/20 12:38 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1	11/13/20 12:38	11/23/20 04:08	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1	11/13/20 12:38	11/21/20 18:29	JHH	Mt. Juliet, TN

B-8-3 L1286255-14 Solid

Collected by: PGB | Collected date/time: 11/13/20 09:48 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1	11/13/20 09:48	11/23/20 04:31	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1	11/13/20 09:48	11/21/20 18:48	JHH	Mt. Juliet, TN

B-9-3 L1286255-15 Solid

Collected by: PGB | Collected date/time: 11/13/20 10:28 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1	11/13/20 10:28	11/23/20 04:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1	11/13/20 10:28	11/21/20 19:07	JHH	Mt. Juliet, TN

GW-5-3 L1286255-16 Solid

Collected by: PGB | Collected date/time: 11/13/20 10:53 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1	11/13/20 10:53	11/23/20 05:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1	11/13/20 10:53	11/21/20 19:26	JHH	Mt. Juliet, TN

GW-5 L1286255-17 GW

Collected by: PGB | Collected date/time: 11/13/20 11:54 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015	WG1580561	1	11/22/20 14:55	11/22/20 14:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580362	1	11/22/20 03:04	11/22/20 03:04	DWR	Mt. Juliet, TN

GW-6-3 L1286255-18 Solid

Collected by: PGB | Collected date/time: 11/13/20 07:49 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1	11/13/20 07:49	11/23/20 05:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1.34	11/13/20 07:49	11/21/20 19:45	JHH	Mt. Juliet, TN

GW-6 L1286255-19 GW

Collected by: PGB | Collected date/time: 11/13/20 13:26 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015	WG1580561	1	11/22/20 15:17	11/22/20 15:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580362	1	11/22/20 03:26	11/22/20 03:26	DWR	Mt. Juliet, TN

GW-7-3 L1286255-20 Solid

Collected by: PGB | Collected date/time: 11/12/20 16:44 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1580857	1.14	11/12/20 16:44	11/23/20 06:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	6.56	11/12/20 16:44	11/21/20 20:04	JHH	Mt. Juliet, TN

GW-7 L1286255-21 GW

Collected by: PGB | Collected date/time: 11/12/20 17:32 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015	WG1580561	1	11/22/20 15:39	11/22/20 15:39	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580365	1	11/22/20 11:10	11/22/20 11:10	BMB	Mt. Juliet, TN

GW-8-3 L1286255-22 Solid

Collected by: PGB | Collected date/time: 11/12/20 14:42 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1582016	1	11/12/20 14:42	11/24/20 17:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1	11/12/20 14:42	11/21/20 20:23	JHH	Mt. Juliet, TN

GW-8 L1286255-23 GW

Collected by: PGB | Collected date/time: 11/12/20 15:50 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015	WG1580561	1	11/22/20 16:10	11/22/20 16:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580365	1	11/22/20 11:31	11/22/20 11:31	BMB	Mt. Juliet, TN

GW-9-3 L1286255-24 Solid

Collected by: PGB | Collected date/time: 11/13/20 08:58 | Received date/time: 11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579969	1	11/21/20 06:26	11/21/20 06:35	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1582016	1	11/13/20 08:58	11/24/20 17:26	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1580412	1	11/13/20 08:58	11/21/20 20:42	JHH	Mt. Juliet, TN

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

Jared Starkey
Project Manager

Sample Delivery Group (SDG) Narrative

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1286255-17	GW-5	8260B, 8015
L1286255-19	GW-6	8260B, 8015
L1286255-21	GW-7	8015
L1286255-23	GW-8	8015

Mercury by Method 7471A

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-5-COMP	L1286255-01	Mercury	0.0216	J	0.0209	0.0465	1	11/23/2020 08:17	WG1580345
B-6-COMP	L1286255-02	Mercury	0.0232	J	0.0206	0.0457	1	11/23/2020 08:25	WG1580345
B-7-COMP	L1286255-03	Mercury	0.0244	J	0.0205	0.0455	1	11/23/2020 08:27	WG1580345
B-8-COMP	L1286255-04	Mercury	0.0346	J	0.0215	0.0479	1	11/23/2020 08:30	WG1580345
B-9-COMP	L1286255-05	Mercury	0.0219	J	0.0211	0.0470	1	11/23/2020 08:32	WG1580345
GW-5-COMP	L1286255-06	Mercury	0.0266	J	0.0235	0.0522	1	11/23/2020 08:35	WG1580345
GW-7-COMP	L1286255-08	Mercury	0.0705		0.0197	0.0438	1	11/23/2020 08:40	WG1580345
GW-9-COMP	L1286255-10	Mercury	0.0262	J	0.0203	0.0450	1	11/23/2020 08:45	WG1580345

Metals (ICPMS) by Method 6020

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-5-COMP	L1286255-01	Arsenic	1.89		0.116	1.16	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Barium	105		0.177	2.91	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Beryllium	0.562	J	0.161	2.91	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Cadmium	0.282	J	0.0995	1.16	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Chromium	65.3		0.344	5.82	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Cobalt	22.6		0.0538	1.16	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Copper	32.9		0.154	5.82	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Lead	4.11		0.115	2.33	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Molybdenum	0.562	J	0.118	2.91	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Nickel	66.8		0.229	2.91	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Selenium	0.775	J	0.209	2.91	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Thallium	0.152	J	0.0756	2.33	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Vanadium	73.0		0.218	2.91	5	11/21/2020 18:54	WG1580169
B-5-COMP	L1286255-01	Zinc	62.5		0.861	29.1	5	11/21/2020 18:54	WG1580169
B-6-COMP	L1286255-02	Arsenic	1.53		0.114	1.14	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Barium	113		0.174	2.86	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Beryllium	0.457	J	0.158	2.86	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Cadmium	0.302	J	0.0977	1.14	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Chromium	40.3		0.338	5.71	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Cobalt	15.5		0.0528	1.14	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Copper	20.8		0.151	5.71	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Lead	3.58	O1	0.113	2.29	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Molybdenum	0.496	J	0.115	2.86	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Nickel	39.2		0.225	2.86	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Selenium	0.437	J	0.206	2.86	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Thallium	0.186	J	0.0743	2.29	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Vanadium	56.3		0.214	2.86	5	11/21/2020 18:06	WG1580169
B-6-COMP	L1286255-02	Zinc	54.9		0.846	28.6	5	11/21/2020 18:06	WG1580169
B-7-COMP	L1286255-03	Arsenic	1.81		0.114	1.14	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Barium	116		0.173	2.84	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Beryllium	0.520	J	0.157	2.84	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Cadmium	0.293	J	0.0972	1.14	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Chromium	55.6		0.336	5.68	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Cobalt	20.1		0.0525	1.14	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Copper	30.3		0.150	5.68	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Lead	5.59		0.112	2.27	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Molybdenum	0.648	J	0.115	2.84	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Nickel	57.6		0.224	2.84	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Selenium	0.673	J	0.205	2.84	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Thallium	0.147	J	0.0739	2.27	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Vanadium	62.2		0.212	2.84	5	11/21/2020 18:57	WG1580169
B-7-COMP	L1286255-03	Zinc	59.2		0.841	28.4	5	11/21/2020 18:57	WG1580169

Metals (ICPMS) by Method 6020

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-8-COMP	L1286255-04	Arsenic	2.33		0.120	1.20	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Barium	170		0.182	2.99	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Beryllium	0.576	J	0.165	2.99	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Cadmium	0.294	J	0.102	1.20	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Chromium	59.0		0.354	5.98	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Cobalt	15.3		0.0553	1.20	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Copper	29.2		0.158	5.98	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Lead	13.6		0.118	2.39	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Molybdenum	0.362	J	0.121	2.99	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Nickel	50.3		0.236	2.99	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Selenium	0.611	J	0.215	2.99	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Thallium	0.145	J	0.0778	2.39	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Vanadium	72.4		0.224	2.99	5	11/21/2020 19:01	WG1580169
B-8-COMP	L1286255-04	Zinc	60.5		0.885	29.9	5	11/21/2020 19:01	WG1580169
B-9-COMP	L1286255-05	Arsenic	1.88		0.117	1.17	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Barium	130		0.178	2.93	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Beryllium	0.493	J	0.162	2.93	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Cadmium	0.295	J	0.100	1.17	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Chromium	54.8		0.347	5.87	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Cobalt	19.9		0.0542	1.17	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Copper	30.9		0.155	5.87	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Lead	9.32		0.116	2.35	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Molybdenum	0.599	J	0.119	2.93	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Nickel	56.5		0.231	2.93	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Selenium	0.498	J	0.211	2.93	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Thallium	0.165	J	0.0763	2.35	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Vanadium	63.7		0.220	2.93	5	11/21/2020 19:04	WG1580169
B-9-COMP	L1286255-05	Zinc	63.3		0.869	29.3	5	11/21/2020 19:04	WG1580169
GW-5-COMP	L1286255-06	Arsenic	2.75		0.130	1.30	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Barium	122		0.198	3.26	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Beryllium	0.578	J	0.180	3.26	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Cadmium	0.328	J	0.112	1.30	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Chromium	60.2		0.386	6.52	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Cobalt	21.1		0.0603	1.30	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Copper	33.4		0.172	6.52	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Lead	3.94		0.129	2.61	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Molybdenum	0.747	J	0.132	3.26	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Nickel	62.5		0.257	3.26	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Selenium	0.489	J	0.235	3.26	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Thallium	0.170	J	0.0848	2.61	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Vanadium	73.5		0.244	3.26	5	11/21/2020 19:08	WG1580169
GW-5-COMP	L1286255-06	Zinc	61.4		0.965	32.6	5	11/21/2020 19:08	WG1580169
GW-6-COMP	L1286255-07	Arsenic	1.62		0.115	1.15	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Barium	115		0.174	2.86	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Beryllium	0.479	J	0.158	2.86	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Cadmium	0.232	J	0.0980	1.15	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Chromium	46.3		0.339	5.73	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Cobalt	17.0		0.0529	1.15	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Copper	26.4		0.151	5.73	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Lead	6.47		0.113	2.29	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Molybdenum	0.494	J	0.116	2.86	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Nickel	44.6		0.226	2.86	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Selenium	0.573	J	0.206	2.86	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Thallium	0.167	J	0.0745	2.29	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Vanadium	59.3		0.214	2.86	5	11/21/2020 17:38	WG1580169
GW-6-COMP	L1286255-07	Zinc	60.3		0.848	28.6	5	11/21/2020 17:38	WG1580169

Metals (ICPMS) by Method 6020

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GW-7-COMP	L1286255-08	Antimony	0.396	J	0.182	3.28	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Arsenic	5.14		0.109	1.09	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Barium	317		0.166	2.74	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Beryllium	0.350	J	0.151	2.74	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Cadmium	0.804	J	0.0935	1.09	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Chromium	21.7		0.324	5.47	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Cobalt	9.21		0.0505	1.09	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Copper	27.2		0.144	5.47	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Lead	79.7		0.108	2.19	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Molybdenum	0.726	J	0.110	2.74	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Nickel	22.2		0.216	2.74	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Selenium	0.281	J	0.197	2.74	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Silver	0.118	J	0.0946	0.547	5	11/22/2020 17:16	WG1580169
GW-7-COMP	L1286255-08	Thallium	0.0934	J	0.0711	2.19	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Vanadium	37.6		0.205	2.74	5	11/21/2020 17:42	WG1580169
GW-7-COMP	L1286255-08	Zinc	255		0.810	27.4	5	11/21/2020 17:42	WG1580169
GW-8-COMP	L1286255-09	Arsenic	1.49		0.126	1.26	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Barium	83.1		0.192	3.15	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Beryllium	0.417	J	0.174	3.15	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Cadmium	0.207	J	0.108	1.26	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Chromium	39.0		0.373	6.30	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Cobalt	11.4		0.0582	1.26	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Copper	18.2		0.166	6.30	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Lead	2.59		0.125	2.52	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Molybdenum	0.348	J	0.127	3.15	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Nickel	31.0		0.248	3.15	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Selenium	0.368	J	0.227	3.15	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Thallium	0.116	J	0.0819	2.52	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Vanadium	43.5		0.236	3.15	5	11/21/2020 17:45	WG1580169
GW-8-COMP	L1286255-09	Zinc	33.7		0.933	31.5	5	11/21/2020 17:45	WG1580169
GW-9-COMP	L1286255-10	Arsenic	1.13		0.113	1.13	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Barium	96.8		0.171	2.82	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Beryllium	0.357	J	0.155	2.82	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Cadmium	0.151	J	0.0963	1.13	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Chromium	31.9		0.333	5.63	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Cobalt	12.1		0.0520	1.13	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Copper	16.8		0.149	5.63	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Lead	3.22		0.111	2.25	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Molybdenum	0.376	J	0.114	2.82	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Nickel	30.5		0.222	2.82	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Selenium	0.542	J	0.203	2.82	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Thallium	0.154	J	0.0732	2.25	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Vanadium	45.5		0.211	2.82	5	11/21/2020 17:49	WG1580169
GW-9-COMP	L1286255-10	Zinc	49.3		0.833	28.2	5	11/21/2020 17:49	WG1580169

Volatile Organic Compounds (GC) by Method 8015

Client ID	Lab Sample ID	Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
GW-6	L1286255-19	TPHG C5 - C12	34.5	B J	30.4	100	1	11/22/2020 15:17	WG1580561

Volatile Organic Compounds (GC) by Method 8015

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-5-3	L1286255-11	TPHG C5 - C12	0.0498	B J	0.0397	0.120	1.04	11/23/2020 02:52	WG1580857
B-7-3	L1286255-13	TPHG C5 - C12	0.0597	B J	0.0372	0.112	1	11/23/2020 04:08	WG1580857
B-8-3	L1286255-14	TPHG C5 - C12	0.118	B J	0.0414	0.125	1	11/23/2020 04:31	WG1580857
GW-5-3	L1286255-16	TPHG C5 - C12	0.0876	B J	0.0446	0.134	1	11/23/2020 05:19	WG1580857
GW-7-3	L1286255-20	TPHG C5 - C12	0.0634	B J	0.0430	0.130	1.14	11/23/2020 06:05	WG1580857
GW-8-3	L1286255-22	TPHG C5 - C12	0.123	B J	0.0434	0.131	1	11/24/2020 17:03	WG1582016
GW-9-3	L1286255-24	TPHG C5 - C12	0.0607	B J	0.0378	0.114	1	11/24/2020 17:26	WG1582016

Volatile Organic Compounds (GC/MS) by Method 8260B

Client ID	Lab Sample ID	Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
GW-5	L1286255-17	Benzene	0.0966	J	0.0941	1.00	1	11/22/2020 03:04	WG1580362
GW-5	L1286255-17	Chloroform	0.641	J	0.111	5.00	1	11/22/2020 03:04	WG1580362
GW-5	L1286255-17	Tetrachloroethene	1.52		0.300	1.00	1	11/22/2020 03:04	WG1580362
GW-5	L1286255-17	Trichloroethene	0.310	J	0.190	1.00	1	11/22/2020 03:04	WG1580362
GW-5	L1286255-17	Trichlorofluoromethane	1.06	J	0.160	5.00	1	11/22/2020 03:04	WG1580362
GW-5	L1286255-17	Xylenes, Total	0.387	J	0.174	3.00	1	11/22/2020 03:04	WG1580362
GW-6	L1286255-19	Acetone	57.7		11.3	50.0	1	11/22/2020 03:26	WG1580362
GW-6	L1286255-19	Benzene	0.350	J	0.0941	1.00	1	11/22/2020 03:26	WG1580362
GW-6	L1286255-19	Chloroform	0.376	J	0.111	5.00	1	11/22/2020 03:26	WG1580362
GW-6	L1286255-19	2-Butanone (MEK)	8.50	J	1.19	10.0	1	11/22/2020 03:26	WG1580362
GW-6	L1286255-19	4-Methyl-2-pentanone (MIBK)	0.595	J	0.478	10.0	1	11/22/2020 03:26	WG1580362
GW-6	L1286255-19	Tetrachloroethene	0.427	J	0.300	1.00	1	11/22/2020 03:26	WG1580362
GW-6	L1286255-19	Toluene	0.330	J	0.278	1.00	1	11/22/2020 03:26	WG1580362
GW-6	L1286255-19	Xylenes, Total	0.302	J	0.174	3.00	1	11/22/2020 03:26	WG1580362
GW-7	L1286255-21	Chloroform	2.20	J	0.111	5.00	1	11/22/2020 11:10	WG1580365
GW-7	L1286255-21	Trichlorofluoromethane	0.650	J	0.160	5.00	1	11/22/2020 11:10	WG1580365
GW-8	L1286255-23	Chloroform	7.69		0.111	5.00	1	11/22/2020 11:31	WG1580365
GW-8	L1286255-23	Trichlorofluoromethane	11.2		0.160	5.00	1	11/22/2020 11:31	WG1580365

Volatile Organic Compounds (GC/MS) by Method 8260B

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-5-3	L1286255-11	Methylene Chloride	0.0109	J	0.0100	0.0377	1.18	11/21/2020 17:51	WG1580412
B-6-3	L1286255-12	Methylene Chloride	0.0107	J	0.00943	0.0355	1.14	11/21/2020 18:10	WG1580412
B-8-3	L1286255-14	Tetrachloroethene	0.00180	J	0.00136	0.00381	1	11/21/2020 18:48	WG1580412
GW-7-3	L1286255-20	Methylene Chloride	0.0777	J	0.0532	0.200	6.56	11/21/2020 20:04	WG1580412

Semi-Volatile Organic Compounds (GC) by Method 8015

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
B-7-COMP	L1286255-03	C12-C22 Hydrocarbons	1.34	J	0.833	4.55	1	11/22/2020 15:16	WG1580433
B-7-COMP	L1286255-03	C22-C32 Hydrocarbons	5.73		1.51	4.55	1	11/22/2020 15:16	WG1580433
B-7-COMP	L1286255-03	C32-C40 Hydrocarbons	2.41	J	1.51	4.55	1	11/22/2020 15:16	WG1580433
B-8-COMP	L1286255-04	C12-C22 Hydrocarbons	1.79	J	0.877	4.79	1	11/24/2020 23:25	WG1581540
B-8-COMP	L1286255-04	C22-C32 Hydrocarbons	22.0		1.59	4.79	1	11/24/2020 23:25	WG1581540
B-8-COMP	L1286255-04	C32-C40 Hydrocarbons	12.4		1.59	4.79	1	11/24/2020 23:25	WG1581540
GW-6-COMP	L1286255-07	C12-C22 Hydrocarbons	0.888	J	0.840	4.58	1	11/24/2020 23:39	WG1581540
GW-6-COMP	L1286255-07	C22-C32 Hydrocarbons	2.97	J	1.52	4.58	1	11/24/2020 23:39	WG1581540
GW-6-COMP	L1286255-07	C32-C40 Hydrocarbons	2.02	J	1.52	4.58	1	11/24/2020 23:39	WG1581540

Semi-Volatile Organic Compounds (GC) by Method 8015

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GW-7-COMP	L1286255-08	C12-C22 Hydrocarbons	117	J	32.1	175	40	11/24/2020 23:54	WG1581540
GW-7-COMP	L1286255-08	C22-C32 Hydrocarbons	661		58.2	175	40	11/24/2020 23:54	WG1581540
GW-7-COMP	L1286255-08	C32-C40 Hydrocarbons	328		58.2	175	40	11/24/2020 23:54	WG1581540
GW-9-COMP	L1286255-10	C12-C22 Hydrocarbons	2.96	J	0.825	4.50	1	11/24/2020 23:10	WG1581540
GW-9-COMP	L1286255-10	C22-C32 Hydrocarbons	24.7		1.50	4.50	1	11/24/2020 23:10	WG1581540
GW-9-COMP	L1286255-10	C32-C40 Hydrocarbons	6.16		1.50	4.50	1	11/24/2020 23:10	WG1581540

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	11/22/2020 00:35	WG1580218

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0216	J	0.0209	0.0465	1	11/23/2020 08:17	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.193	3.49	5	11/21/2020 18:54	WG1580169
Arsenic	1.89		0.116	1.16	5	11/21/2020 18:54	WG1580169
Barium	105		0.177	2.91	5	11/21/2020 18:54	WG1580169
Beryllium	0.562	J	0.161	2.91	5	11/21/2020 18:54	WG1580169
Cadmium	0.282	J	0.0995	1.16	5	11/21/2020 18:54	WG1580169
Chromium	65.3		0.344	5.82	5	11/21/2020 18:54	WG1580169
Cobalt	22.6		0.0538	1.16	5	11/21/2020 18:54	WG1580169
Copper	32.9		0.154	5.82	5	11/21/2020 18:54	WG1580169
Lead	4.11		0.115	2.33	5	11/21/2020 18:54	WG1580169
Molybdenum	0.562	J	0.118	2.91	5	11/21/2020 18:54	WG1580169
Nickel	66.8		0.229	2.91	5	11/21/2020 18:54	WG1580169
Selenium	0.775	J	0.209	2.91	5	11/21/2020 18:54	WG1580169
Silver	U		0.101	0.582	5	11/21/2020 18:54	WG1580169
Thallium	0.152	J	0.0756	2.33	5	11/21/2020 18:54	WG1580169
Vanadium	73.0		0.218	2.91	5	11/21/2020 18:54	WG1580169
Zinc	62.5		0.861	29.1	5	11/21/2020 18:54	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.853	4.65	1	11/22/2020 15:59	WG1580433
C22-C32 Hydrocarbons	U		1.55	4.65	1	11/22/2020 15:59	WG1580433
C32-C40 Hydrocarbons	U		1.55	4.65	1	11/22/2020 15:59	WG1580433
(S) o-Terphenyl	*87.8*			*18.0-148*		*11/22/2020 15:59*	WG1580433

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	11/23/2020 08:22	WG1580354

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0232	J	0.0206	0.0457	1	11/23/2020 08:25	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U	J6	0.190	3.43	5	11/21/2020 18:06	WG1580169
Arsenic	1.53		0.114	1.14	5	11/21/2020 18:06	WG1580169
Barium	113		0.174	2.86	5	11/21/2020 18:06	WG1580169
Beryllium	0.457	J	0.158	2.86	5	11/21/2020 18:06	WG1580169
Cadmium	0.302	J	0.0977	1.14	5	11/21/2020 18:06	WG1580169
Chromium	40.3		0.338	5.71	5	11/21/2020 18:06	WG1580169
Cobalt	15.5		0.0528	1.14	5	11/21/2020 18:06	WG1580169
Copper	20.8		0.151	5.71	5	11/21/2020 18:06	WG1580169
Lead	3.58	O1	0.113	2.29	5	11/21/2020 18:06	WG1580169
Molybdenum	0.496	J	0.115	2.86	5	11/21/2020 18:06	WG1580169
Nickel	39.2		0.225	2.86	5	11/21/2020 18:06	WG1580169
Selenium	0.437	J	0.206	2.86	5	11/21/2020 18:06	WG1580169
Silver	U		0.0989	0.571	5	11/21/2020 18:06	WG1580169
Thallium	0.186	J	0.0743	2.29	5	11/21/2020 18:06	WG1580169
Vanadium	56.3		0.214	2.86	5	11/21/2020 18:06	WG1580169
Zinc	54.9		0.846	28.6	5	11/21/2020 18:06	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.838	4.57	1	11/22/2020 14:46	WG1580433
C22-C32 Hydrocarbons	U		1.52	4.57	1	11/22/2020 14:46	WG1580433
C32-C40 Hydrocarbons	U		1.52	4.57	1	11/22/2020 14:46	WG1580433
(S) o-Terphenyl	*99.1*			*18.0-148*		*11/22/2020 14:46*	WG1580433

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0		1	11/23/2020 08:22	WG1580354

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0244	J	0.0205	0.0455	1	11/23/2020 08:27	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.189	3.41	5	11/21/2020 18:57	WG1580169
Arsenic	1.81		0.114	1.14	5	11/21/2020 18:57	WG1580169
Barium	116		0.173	2.84	5	11/21/2020 18:57	WG1580169
Beryllium	0.520	J	0.157	2.84	5	11/21/2020 18:57	WG1580169
Cadmium	0.293	J	0.0972	1.14	5	11/21/2020 18:57	WG1580169
Chromium	55.6		0.336	5.68	5	11/21/2020 18:57	WG1580169
Cobalt	20.1		0.0525	1.14	5	11/21/2020 18:57	WG1580169
Copper	30.3		0.150	5.68	5	11/21/2020 18:57	WG1580169
Lead	5.59		0.112	2.27	5	11/21/2020 18:57	WG1580169
Molybdenum	0.648	J	0.115	2.84	5	11/21/2020 18:57	WG1580169
Nickel	57.6		0.224	2.84	5	11/21/2020 18:57	WG1580169
Selenium	0.673	J	0.205	2.84	5	11/21/2020 18:57	WG1580169
Silver	U		0.0983	0.568	5	11/21/2020 18:57	WG1580169
Thallium	0.147	J	0.0739	2.27	5	11/21/2020 18:57	WG1580169
Vanadium	62.2		0.212	2.84	5	11/21/2020 18:57	WG1580169
Zinc	59.2		0.841	28.4	5	11/21/2020 18:57	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	1.34	J	0.833	4.55	1	11/22/2020 15:16	WG1580433
C22-C32 Hydrocarbons	5.73		1.51	4.55	1	11/22/2020 15:16	WG1580433
C32-C40 Hydrocarbons	2.41	J	1.51	4.55	1	11/22/2020 15:16	WG1580433
(S) o-Terphenyl	*98.0*			*18.0-148*		*11/22/2020 15:16*	WG1580433

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.6		1	11/23/2020 08:10	WG1580876

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0346	J	0.0215	0.0479	1	11/23/2020 08:30	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.199	3.59	5	11/21/2020 19:01	WG1580169
Arsenic	2.33		0.120	1.20	5	11/21/2020 19:01	WG1580169
Barium	170		0.182	2.99	5	11/21/2020 19:01	WG1580169
Beryllium	0.576	J	0.165	2.99	5	11/21/2020 19:01	WG1580169
Cadmium	0.294	J	0.102	1.20	5	11/21/2020 19:01	WG1580169
Chromium	59.0		0.354	5.98	5	11/21/2020 19:01	WG1580169
Cobalt	15.3		0.0553	1.20	5	11/21/2020 19:01	WG1580169
Copper	29.2		0.158	5.98	5	11/21/2020 19:01	WG1580169
Lead	13.6		0.118	2.39	5	11/21/2020 19:01	WG1580169
Molybdenum	0.362	J	0.121	2.99	5	11/21/2020 19:01	WG1580169
Nickel	50.3		0.236	2.99	5	11/21/2020 19:01	WG1580169
Selenium	0.611	J	0.215	2.99	5	11/21/2020 19:01	WG1580169
Silver	U		0.103	0.598	5	11/21/2020 19:01	WG1580169
Thallium	0.145	J	0.0778	2.39	5	11/21/2020 19:01	WG1580169
Vanadium	72.4		0.224	2.99	5	11/21/2020 19:01	WG1580169
Zinc	60.5		0.885	29.9	5	11/21/2020 19:01	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	1.79	J	0.877	4.79	1	11/24/2020 23:25	WG1581540
C22-C32 Hydrocarbons	22.0		1.59	4.79	1	11/24/2020 23:25	WG1581540
C32-C40 Hydrocarbons	12.4		1.59	4.79	1	11/24/2020 23:25	WG1581540
(S) o-Terphenyl	*93.3*			*18.0-148*		*11/24/2020 23:25*	WG1581540

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	11/23/2020 08:10	WG1580876

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0219	J	0.0211	0.0470	1	11/23/2020 08:32	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.195	3.52	5	11/21/2020 19:04	WG1580169
Arsenic	1.88		0.117	1.17	5	11/21/2020 19:04	WG1580169
Barium	130		0.178	2.93	5	11/21/2020 19:04	WG1580169
Beryllium	0.493	J	0.162	2.93	5	11/21/2020 19:04	WG1580169
Cadmium	0.295	J	0.100	1.17	5	11/21/2020 19:04	WG1580169
Chromium	54.8		0.347	5.87	5	11/21/2020 19:04	WG1580169
Cobalt	19.9		0.0542	1.17	5	11/21/2020 19:04	WG1580169
Copper	30.9		0.155	5.87	5	11/21/2020 19:04	WG1580169
Lead	9.32		0.116	2.35	5	11/21/2020 19:04	WG1580169
Molybdenum	0.599	J	0.119	2.93	5	11/21/2020 19:04	WG1580169
Nickel	56.5		0.231	2.93	5	11/21/2020 19:04	WG1580169
Selenium	0.498	J	0.211	2.93	5	11/21/2020 19:04	WG1580169
Silver	U		0.102	0.587	5	11/21/2020 19:04	WG1580169
Thallium	0.165	J	0.0763	2.35	5	11/21/2020 19:04	WG1580169
Vanadium	63.7		0.220	2.93	5	11/21/2020 19:04	WG1580169
Zinc	63.3		0.869	29.3	5	11/21/2020 19:04	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.860	4.70	1	11/24/2020 22:42	WG1581540
C22-C32 Hydrocarbons	U		1.56	4.70	1	11/24/2020 22:42	WG1581540
C32-C40 Hydrocarbons	U		1.56	4.70	1	11/24/2020 22:42	WG1581540
(S) o-Terphenyl	*89.1*			*18.0-148*		*11/24/2020 22:42*	WG1581540

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.7		1	11/23/2020 08:10	WG1580876

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0266	J	0.0235	0.0522	1	11/23/2020 08:35	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.216	3.91	5	11/21/2020 19:08	WG1580169
Arsenic	2.75		0.130	1.30	5	11/21/2020 19:08	WG1580169
Barium	122		0.198	3.26	5	11/21/2020 19:08	WG1580169
Beryllium	0.578	J	0.180	3.26	5	11/21/2020 19:08	WG1580169
Cadmium	0.328	J	0.112	1.30	5	11/21/2020 19:08	WG1580169
Chromium	60.2		0.386	6.52	5	11/21/2020 19:08	WG1580169
Cobalt	21.1		0.0603	1.30	5	11/21/2020 19:08	WG1580169
Copper	33.4		0.172	6.52	5	11/21/2020 19:08	WG1580169
Lead	3.94		0.129	2.61	5	11/21/2020 19:08	WG1580169
Molybdenum	0.747	J	0.132	3.26	5	11/21/2020 19:08	WG1580169
Nickel	62.5		0.257	3.26	5	11/21/2020 19:08	WG1580169
Selenium	0.489	J	0.235	3.26	5	11/21/2020 19:08	WG1580169
Silver	U		0.113	0.652	5	11/21/2020 19:08	WG1580169
Thallium	0.170	J	0.0848	2.61	5	11/21/2020 19:08	WG1580169
Vanadium	73.5		0.244	3.26	5	11/21/2020 19:08	WG1580169
Zinc	61.4		0.965	32.6	5	11/21/2020 19:08	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.956	5.22	1	11/24/2020 22:27	WG1581540
C22-C32 Hydrocarbons	U		1.73	5.22	1	11/24/2020 22:27	WG1581540
C32-C40 Hydrocarbons	U		1.73	5.22	1	11/24/2020 22:27	WG1581540
(S) o-Terphenyl	*92.6*			*18.0-148*		*11/24/2020 22:27*	WG1581540

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	11/23/2020 08:10	WG1580876

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0206	0.0458	1	11/23/2020 08:37	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.190	3.44	5	11/21/2020 17:38	WG1580169
Arsenic	1.62		0.115	1.15	5	11/21/2020 17:38	WG1580169
Barium	115		0.174	2.86	5	11/21/2020 17:38	WG1580169
Beryllium	0.479	J	0.158	2.86	5	11/21/2020 17:38	WG1580169
Cadmium	0.232	J	0.0980	1.15	5	11/21/2020 17:38	WG1580169
Chromium	46.3		0.339	5.73	5	11/21/2020 17:38	WG1580169
Cobalt	17.0		0.0529	1.15	5	11/21/2020 17:38	WG1580169
Copper	26.4		0.151	5.73	5	11/21/2020 17:38	WG1580169
Lead	6.47		0.113	2.29	5	11/21/2020 17:38	WG1580169
Molybdenum	0.494	J	0.116	2.86	5	11/21/2020 17:38	WG1580169
Nickel	44.6		0.226	2.86	5	11/21/2020 17:38	WG1580169
Selenium	0.573	J	0.206	2.86	5	11/21/2020 17:38	WG1580169
Silver	U		0.0991	0.573	5	11/21/2020 17:38	WG1580169
Thallium	0.167	J	0.0745	2.29	5	11/21/2020 17:38	WG1580169
Vanadium	59.3		0.214	2.86	5	11/21/2020 17:38	WG1580169
Zinc	60.3		0.848	28.6	5	11/21/2020 17:38	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	0.888	J	0.840	4.58	1	11/24/2020 23:39	WG1581540
C22-C32 Hydrocarbons	2.97	J	1.52	4.58	1	11/24/2020 23:39	WG1581540
C32-C40 Hydrocarbons	2.02	J	1.52	4.58	1	11/24/2020 23:39	WG1581540
(S) o-Terphenyl	*87.7*			*18.0-148*		*11/24/2020 23:39*	WG1581540

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	11/23/2020 08:10	WG1580876

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0705		0.0197	0.0438	1	11/23/2020 08:40	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.396	J	0.182	3.28	5	11/21/2020 17:42	WG1580169
Arsenic	5.14		0.109	1.09	5	11/21/2020 17:42	WG1580169
Barium	317		0.166	2.74	5	11/21/2020 17:42	WG1580169
Beryllium	0.350	J	0.151	2.74	5	11/21/2020 17:42	WG1580169
Cadmium	0.804	J	0.0935	1.09	5	11/21/2020 17:42	WG1580169
Chromium	21.7		0.324	5.47	5	11/21/2020 17:42	WG1580169
Cobalt	9.21		0.0505	1.09	5	11/21/2020 17:42	WG1580169
Copper	27.2		0.144	5.47	5	11/21/2020 17:42	WG1580169
Lead	79.7		0.108	2.19	5	11/21/2020 17:42	WG1580169
Molybdenum	0.726	J	0.110	2.74	5	11/21/2020 17:42	WG1580169
Nickel	22.2		0.216	2.74	5	11/21/2020 17:42	WG1580169
Selenium	0.281	J	0.197	2.74	5	11/21/2020 17:42	WG1580169
Silver	0.118	J	0.0946	0.547	5	11/22/2020 17:16	WG1580169
Thallium	0.0934	J	0.0711	2.19	5	11/21/2020 17:42	WG1580169
Vanadium	37.6		0.205	2.74	5	11/21/2020 17:42	WG1580169
Zinc	255		0.810	27.4	5	11/21/2020 17:42	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	117	J	32.1	175	40	11/24/2020 23:54	WG1581540
C22-C32 Hydrocarbons	661		58.2	175	40	11/24/2020 23:54	WG1581540
C32-C40 Hydrocarbons	328		58.2	175	40	11/24/2020 23:54	WG1581540
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*11/24/2020 23:54*	WG1581540

Sample Narrative:

L1286255-08 WG1581540: Cannot run at lower dilution due to viscosity of extract

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	11/23/2020 08:10	WG1580876

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0227	0.0504	1	11/23/2020 08:43	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.209	3.78	5	11/21/2020 17:45	WG1580169
Arsenic	1.49		0.126	1.26	5	11/21/2020 17:45	WG1580169
Barium	83.1		0.192	3.15	5	11/21/2020 17:45	WG1580169
Beryllium	0.417	J	0.174	3.15	5	11/21/2020 17:45	WG1580169
Cadmium	0.207	J	0.108	1.26	5	11/21/2020 17:45	WG1580169
Chromium	39.0		0.373	6.30	5	11/21/2020 17:45	WG1580169
Cobalt	11.4		0.0582	1.26	5	11/21/2020 17:45	WG1580169
Copper	18.2		0.166	6.30	5	11/21/2020 17:45	WG1580169
Lead	2.59		0.125	2.52	5	11/21/2020 17:45	WG1580169
Molybdenum	0.348	J	0.127	3.15	5	11/21/2020 17:45	WG1580169
Nickel	31.0		0.248	3.15	5	11/21/2020 17:45	WG1580169
Selenium	0.368	J	0.227	3.15	5	11/21/2020 17:45	WG1580169
Silver	U		0.109	0.630	5	11/21/2020 17:45	WG1580169
Thallium	0.116	J	0.0819	2.52	5	11/21/2020 17:45	WG1580169
Vanadium	43.5		0.236	3.15	5	11/21/2020 17:45	WG1580169
Zinc	33.7		0.933	31.5	5	11/21/2020 17:45	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	U		0.924	5.04	1	11/24/2020 22:56	WG1581540
C22-C32 Hydrocarbons	U		1.68	5.04	1	11/24/2020 22:56	WG1581540
C32-C40 Hydrocarbons	U		1.68	5.04	1	11/24/2020 22:56	WG1581540
(S) o-Terphenyl	*96.5*			*18.0-148*		*11/24/2020 22:56*	WG1581540

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	11/23/2020 08:10	WG1580876

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0262	J	0.0203	0.0450	1	11/23/2020 08:45	WG1580345

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.187	3.38	5	11/21/2020 17:49	WG1580169
Arsenic	1.13		0.113	1.13	5	11/21/2020 17:49	WG1580169
Barium	96.8		0.171	2.82	5	11/21/2020 17:49	WG1580169
Beryllium	0.357	J	0.155	2.82	5	11/21/2020 17:49	WG1580169
Cadmium	0.151	J	0.0963	1.13	5	11/21/2020 17:49	WG1580169
Chromium	31.9		0.333	5.63	5	11/21/2020 17:49	WG1580169
Cobalt	12.1		0.0520	1.13	5	11/21/2020 17:49	WG1580169
Copper	16.8		0.149	5.63	5	11/21/2020 17:49	WG1580169
Lead	3.22		0.111	2.25	5	11/21/2020 17:49	WG1580169
Molybdenum	0.376	J	0.114	2.82	5	11/21/2020 17:49	WG1580169
Nickel	30.5		0.222	2.82	5	11/21/2020 17:49	WG1580169
Selenium	0.542	J	0.203	2.82	5	11/21/2020 17:49	WG1580169
Silver	U		0.0974	0.563	5	11/21/2020 17:49	WG1580169
Thallium	0.154	J	0.0732	2.25	5	11/21/2020 17:49	WG1580169
Vanadium	45.5		0.211	2.82	5	11/21/2020 17:49	WG1580169
Zinc	49.3		0.833	28.2	5	11/21/2020 17:49	WG1580169

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C12-C22 Hydrocarbons	2.96	J	0.825	4.50	1	11/24/2020 23:10	WG1581540
C22-C32 Hydrocarbons	24.7		1.50	4.50	1	11/24/2020 23:10	WG1581540
C32-C40 Hydrocarbons	6.16		1.50	4.50	1	11/24/2020 23:10	WG1581540
(S) o-Terphenyl	*84.6*			*18.0-148*		*11/24/2020 23:10*	WG1581540

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	11/21/2020 01:53	WG1579968

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0498	B J	0.0397	0.120	1.04	11/23/2020 02:52	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*77.0-120*		*11/23/2020 02:52*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0551	0.0754	1.18	11/21/2020 17:51	WG1580412
Acrylonitrile	U		0.00544	0.0188	1.18	11/21/2020 17:51	WG1580412
Benzene	U		0.000704	0.00151	1.18	11/21/2020 17:51	WG1580412
Bromobenzene	U		0.00135	0.0188	1.18	11/21/2020 17:51	WG1580412
Bromodichloromethane	U		0.00109	0.00377	1.18	11/21/2020 17:51	WG1580412
Bromoform	U		0.00176	0.0377	1.18	11/21/2020 17:51	WG1580412
Bromomethane	U		0.00296	0.0188	1.18	11/21/2020 17:51	WG1580412
n-Butylbenzene	U		0.00791	0.0188	1.18	11/21/2020 17:51	WG1580412
sec-Butylbenzene	U		0.00434	0.0188	1.18	11/21/2020 17:51	WG1580412
tert-Butylbenzene	U		0.00294	0.00754	1.18	11/21/2020 17:51	WG1580412
Carbon tetrachloride	U		0.00135	0.00754	1.18	11/21/2020 17:51	WG1580412
Chlorobenzene	U		0.000317	0.00377	1.18	11/21/2020 17:51	WG1580412
Chlorodibromomethane	U		0.000923	0.00377	1.18	11/21/2020 17:51	WG1580412
Chloroethane	U		0.00257	0.00754	1.18	11/21/2020 17:51	WG1580412
Chloroform	U		0.00156	0.00377	1.18	11/21/2020 17:51	WG1580412
Chloromethane	U		0.00656	0.0188	1.18	11/21/2020 17:51	WG1580412
2-Chlorotoluene	U		0.00130	0.00377	1.18	11/21/2020 17:51	WG1580412
4-Chlorotoluene	U		0.000679	0.00754	1.18	11/21/2020 17:51	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00588	0.0377	1.18	11/21/2020 17:51	WG1580412
1,2-Dibromoethane	U		0.000978	0.00377	1.18	11/21/2020 17:51	WG1580412
Dibromomethane	U		0.00113	0.00754	1.18	11/21/2020 17:51	WG1580412
1,2-Dichlorobenzene	U		0.000642	0.00754	1.18	11/21/2020 17:51	WG1580412
1,3-Dichlorobenzene	U		0.000905	0.00754	1.18	11/21/2020 17:51	WG1580412
1,4-Dichlorobenzene	U		0.00106	0.00754	1.18	11/21/2020 17:51	WG1580412
Dichlorodifluoromethane	U		0.00243	0.00377	1.18	11/21/2020 17:51	WG1580412
1,1-Dichloroethane	U		0.000740	0.00377	1.18	11/21/2020 17:51	WG1580412
1,2-Dichloroethane	U		0.000979	0.00377	1.18	11/21/2020 17:51	WG1580412
1,1-Dichloroethene	U		0.000914	0.00377	1.18	11/21/2020 17:51	WG1580412
cis-1,2-Dichloroethene	U		0.00111	0.00377	1.18	11/21/2020 17:51	WG1580412
trans-1,2-Dichloroethene	U		0.00157	0.00754	1.18	11/21/2020 17:51	WG1580412
1,2-Dichloropropane	U		0.00215	0.00754	1.18	11/21/2020 17:51	WG1580412
1,1-Dichloropropene	U		0.00122	0.00377	1.18	11/21/2020 17:51	WG1580412
1,3-Dichloropropane	U		0.000755	0.00754	1.18	11/21/2020 17:51	WG1580412
cis-1,3-Dichloropropene	U		0.00114	0.00377	1.18	11/21/2020 17:51	WG1580412
trans-1,3-Dichloropropene	U		0.00173	0.00754	1.18	11/21/2020 17:51	WG1580412
2,2-Dichloropropane	U		0.00208	0.00377	1.18	11/21/2020 17:51	WG1580412
Di-isopropyl ether	U		0.000619	0.00151	1.18	11/21/2020 17:51	WG1580412
Ethylbenzene	U		0.00111	0.00377	1.18	11/21/2020 17:51	WG1580412
Hexachloro-1,3-butadiene	U		0.00905	0.0377	1.18	11/21/2020 17:51	WG1580412
Isopropylbenzene	U		0.000642	0.00377	1.18	11/21/2020 17:51	WG1580412
p-Isopropyltoluene	U		0.00385	0.00754	1.18	11/21/2020 17:51	WG1580412
2-Butanone (MEK)	U		0.0957	0.151	1.18	11/21/2020 17:51	WG1580412
Methylene Chloride	0.0109	J	0.0100	0.0377	1.18	11/21/2020 17:51	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00344	0.0377	1.18	11/21/2020 17:51	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000528	0.00151	1.18	11/21/2020 17:51	WG1580412
Naphthalene	U		0.00736	0.0188	1.18	11/21/2020 17:51	WG1580412
n-Propylbenzene	U		0.00143	0.00754	1.18	11/21/2020 17:51	WG1580412
Styrene	U		0.000345	0.0188	1.18	11/21/2020 17:51	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00143	0.00377	1.18	11/21/2020 17:51	WG1580412
1,1,2,2-Tetrachloroethane	U		0.00105	0.00377	1.18	11/21/2020 17:51	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00114	0.00377	1.18	11/21/2020 17:51	WG1580412
Tetrachloroethene	U		0.00135	0.00377	1.18	11/21/2020 17:51	WG1580412
Toluene	U		0.00196	0.00754	1.18	11/21/2020 17:51	WG1580412
1,2,3-Trichlorobenzene	U		0.0111	0.0188	1.18	11/21/2020 17:51	WG1580412
1,2,4-Trichlorobenzene	U		0.00663	0.0188	1.18	11/21/2020 17:51	WG1580412
1,1,1-Trichloroethane	U		0.00139	0.00377	1.18	11/21/2020 17:51	WG1580412
1,1,2-Trichloroethane	U		0.000900	0.00377	1.18	11/21/2020 17:51	WG1580412
Trichloroethene	U		0.000880	0.00151	1.18	11/21/2020 17:51	WG1580412
Trichlorofluoromethane	U		0.00125	0.00377	1.18	11/21/2020 17:51	WG1580412
1,2,3-Trichloropropane	U		0.00244	0.0188	1.18	11/21/2020 17:51	WG1580412
1,2,4-Trimethylbenzene	U		0.00238	0.00754	1.18	11/21/2020 17:51	WG1580412
1,2,3-Trimethylbenzene	U		0.00238	0.00754	1.18	11/21/2020 17:51	WG1580412
1,3,5-Trimethylbenzene	U		0.00302	0.00754	1.18	11/21/2020 17:51	WG1580412
Vinyl chloride	U		0.00175	0.00377	1.18	11/21/2020 17:51	WG1580412
Xylenes, Total	U		0.00133	0.00980	1.18	11/21/2020 17:51	WG1580412
(S) Toluene-d8	*96.0*			*75.0-131*		*11/21/2020 17:51*	WG1580412
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*11/21/2020 17:51*	WG1580412
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/21/2020 17:51*	WG1580412

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	11/21/2020 01:53	WG1579968

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	U		0.0401	0.121	1.07	11/23/2020 03:16	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*93.9*			*77.0-120*		*11/23/2020 03:16*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0518	0.0710	1.14	11/21/2020 18:10	WG1580412
Acrylonitrile	U		0.00513	0.0178	1.14	11/21/2020 18:10	WG1580412
Benzene	U		0.000663	0.00142	1.14	11/21/2020 18:10	WG1580412
Bromobenzene	U		0.00128	0.0178	1.14	11/21/2020 18:10	WG1580412
Bromodichloromethane	U		0.00103	0.00355	1.14	11/21/2020 18:10	WG1580412
Bromoform	U		0.00166	0.0355	1.14	11/21/2020 18:10	WG1580412
Bromomethane	U		0.00280	0.0178	1.14	11/21/2020 18:10	WG1580412
n-Butylbenzene	U		0.00746	0.0178	1.14	11/21/2020 18:10	WG1580412
sec-Butylbenzene	U		0.00409	0.0178	1.14	11/21/2020 18:10	WG1580412
tert-Butylbenzene	U		0.00277	0.00710	1.14	11/21/2020 18:10	WG1580412
Carbon tetrachloride	U		0.00127	0.00710	1.14	11/21/2020 18:10	WG1580412
Chlorobenzene	U		0.000298	0.00355	1.14	11/21/2020 18:10	WG1580412
Chlorodibromomethane	U		0.000870	0.00355	1.14	11/21/2020 18:10	WG1580412
Chloroethane	U		0.00242	0.00710	1.14	11/21/2020 18:10	WG1580412
Chloroform	U		0.00146	0.00355	1.14	11/21/2020 18:10	WG1580412
Chloromethane	U		0.00618	0.0178	1.14	11/21/2020 18:10	WG1580412
2-Chlorotoluene	U		0.00123	0.00355	1.14	11/21/2020 18:10	WG1580412
4-Chlorotoluene	U		0.000639	0.00710	1.14	11/21/2020 18:10	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0355	1.14	11/21/2020 18:10	WG1580412
1,2-Dibromoethane	U		0.000921	0.00355	1.14	11/21/2020 18:10	WG1580412
Dibromomethane	U		0.00107	0.00710	1.14	11/21/2020 18:10	WG1580412
1,2-Dichlorobenzene	U		0.000604	0.00710	1.14	11/21/2020 18:10	WG1580412
1,3-Dichlorobenzene	U		0.000852	0.00710	1.14	11/21/2020 18:10	WG1580412
1,4-Dichlorobenzene	U		0.000994	0.00710	1.14	11/21/2020 18:10	WG1580412
Dichlorodifluoromethane	U		0.00229	0.00355	1.14	11/21/2020 18:10	WG1580412
1,1-Dichloroethane	U		0.000698	0.00355	1.14	11/21/2020 18:10	WG1580412
1,2-Dichloroethane	U		0.000922	0.00355	1.14	11/21/2020 18:10	WG1580412
1,1-Dichloroethene	U		0.000861	0.00355	1.14	11/21/2020 18:10	WG1580412
cis-1,2-Dichloroethene	U		0.00104	0.00355	1.14	11/21/2020 18:10	WG1580412
trans-1,2-Dichloroethene	U		0.00148	0.00710	1.14	11/21/2020 18:10	WG1580412
1,2-Dichloropropane	U		0.00202	0.00710	1.14	11/21/2020 18:10	WG1580412
1,1-Dichloropropene	U		0.00115	0.00355	1.14	11/21/2020 18:10	WG1580412
1,3-Dichloropropane	U		0.000711	0.00710	1.14	11/21/2020 18:10	WG1580412
cis-1,3-Dichloropropene	U		0.00108	0.00355	1.14	11/21/2020 18:10	WG1580412
trans-1,3-Dichloropropene	U		0.00162	0.00710	1.14	11/21/2020 18:10	WG1580412
2,2-Dichloropropane	U		0.00196	0.00355	1.14	11/21/2020 18:10	WG1580412
Di-isopropyl ether	U		0.000582	0.00142	1.14	11/21/2020 18:10	WG1580412
Ethylbenzene	U		0.00105	0.00355	1.14	11/21/2020 18:10	WG1580412
Hexachloro-1,3-butadiene	U		0.00852	0.0355	1.14	11/21/2020 18:10	WG1580412
Isopropylbenzene	U		0.000604	0.00355	1.14	11/21/2020 18:10	WG1580412
p-Isopropyltoluene	U		0.00363	0.00710	1.14	11/21/2020 18:10	WG1580412
2-Butanone (MEK)	U		0.0902	0.142	1.14	11/21/2020 18:10	WG1580412
Methylene Chloride	0.0107	J	0.00943	0.0355	1.14	11/21/2020 18:10	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00324	0.0355	1.14	11/21/2020 18:10	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000497	0.00142	1.14	11/21/2020 18:10	WG1580412
Naphthalene	U		0.00693	0.0178	1.14	11/21/2020 18:10	WG1580412
n-Propylbenzene	U		0.00135	0.00710	1.14	11/21/2020 18:10	WG1580412
Styrene	U		0.000325	0.0178	1.14	11/21/2020 18:10	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00135	0.00355	1.14	11/21/2020 18:10	WG1580412
1,1,2,2-Tetrachloroethane	U		0.000987	0.00355	1.14	11/21/2020 18:10	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00107	0.00355	1.14	11/21/2020 18:10	WG1580412
Tetrachloroethene	U		0.00127	0.00355	1.14	11/21/2020 18:10	WG1580412
Toluene	U		0.00184	0.00710	1.14	11/21/2020 18:10	WG1580412
1,2,3-Trichlorobenzene	U		0.0104	0.0178	1.14	11/21/2020 18:10	WG1580412
1,2,4-Trichlorobenzene	U		0.00626	0.0178	1.14	11/21/2020 18:10	WG1580412
1,1,1-Trichloroethane	U		0.00131	0.00355	1.14	11/21/2020 18:10	WG1580412
1,1,2-Trichloroethane	U		0.000849	0.00355	1.14	11/21/2020 18:10	WG1580412
Trichloroethene	U		0.000830	0.00142	1.14	11/21/2020 18:10	WG1580412
Trichlorofluoromethane	U		0.00118	0.00355	1.14	11/21/2020 18:10	WG1580412
1,2,3-Trichloropropane	U		0.00231	0.0178	1.14	11/21/2020 18:10	WG1580412
1,2,4-Trimethylbenzene	U		0.00224	0.00710	1.14	11/21/2020 18:10	WG1580412
1,2,3-Trimethylbenzene	U		0.00224	0.00710	1.14	11/21/2020 18:10	WG1580412
1,3,5-Trimethylbenzene	U		0.00284	0.00710	1.14	11/21/2020 18:10	WG1580412
Vinyl chloride	U		0.00164	0.00355	1.14	11/21/2020 18:10	WG1580412
Xylenes, Total	U		0.00125	0.00923	1.14	11/21/2020 18:10	WG1580412
(S) Toluene-d8	*95.8*			*75.0-131*		*11/21/2020 18:10*	WG1580412
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*11/21/2020 18:10*	WG1580412
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*		*11/21/2020 18:10*	WG1580412

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0597	B J	0.0372	0.112	1	11/23/2020 04:08	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-120*		*11/23/2020 04:08*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0455	0.0623	1	11/21/2020 18:29	WG1580412
Acrylonitrile	U		0.00450	0.0156	1	11/21/2020 18:29	WG1580412
Benzene	U		0.000582	0.00125	1	11/21/2020 18:29	WG1580412
Bromobenzene	U		0.00112	0.0156	1	11/21/2020 18:29	WG1580412
Bromodichloromethane	U		0.000904	0.00312	1	11/21/2020 18:29	WG1580412
Bromoform	U		0.00146	0.0312	1	11/21/2020 18:29	WG1580412
Bromomethane	U		0.00246	0.0156	1	11/21/2020 18:29	WG1580412
n-Butylbenzene	U		0.00655	0.0156	1	11/21/2020 18:29	WG1580412
sec-Butylbenzene	U		0.00359	0.0156	1	11/21/2020 18:29	WG1580412
tert-Butylbenzene	U		0.00243	0.00623	1	11/21/2020 18:29	WG1580412
Carbon tetrachloride	U		0.00112	0.00623	1	11/21/2020 18:29	WG1580412
Chlorobenzene	U		0.000262	0.00312	1	11/21/2020 18:29	WG1580412
Chlorodibromomethane	U		0.000763	0.00312	1	11/21/2020 18:29	WG1580412
Chloroethane	U		0.00212	0.00623	1	11/21/2020 18:29	WG1580412
Chloroform	U		0.00128	0.00312	1	11/21/2020 18:29	WG1580412
Chloromethane	U		0.00542	0.0156	1	11/21/2020 18:29	WG1580412
2-Chlorotoluene	U		0.00108	0.00312	1	11/21/2020 18:29	WG1580412
4-Chlorotoluene	U		0.000561	0.00623	1	11/21/2020 18:29	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00486	0.0312	1	11/21/2020 18:29	WG1580412
1,2-Dibromoethane	U		0.000808	0.00312	1	11/21/2020 18:29	WG1580412
Dibromomethane	U		0.000935	0.00623	1	11/21/2020 18:29	WG1580412
1,2-Dichlorobenzene	U		0.000530	0.00623	1	11/21/2020 18:29	WG1580412
1,3-Dichlorobenzene	U		0.000748	0.00623	1	11/21/2020 18:29	WG1580412
1,4-Dichlorobenzene	U		0.000873	0.00623	1	11/21/2020 18:29	WG1580412
Dichlorodifluoromethane	U		0.00201	0.00312	1	11/21/2020 18:29	WG1580412
1,1-Dichloroethane	U		0.000612	0.00312	1	11/21/2020 18:29	WG1580412
1,2-Dichloroethane	U		0.000809	0.00312	1	11/21/2020 18:29	WG1580412
1,1-Dichloroethene	U		0.000756	0.00312	1	11/21/2020 18:29	WG1580412
cis-1,2-Dichloroethene	U		0.000915	0.00312	1	11/21/2020 18:29	WG1580412
trans-1,2-Dichloroethene	U		0.00130	0.00623	1	11/21/2020 18:29	WG1580412
1,2-Dichloropropane	U		0.00177	0.00623	1	11/21/2020 18:29	WG1580412
1,1-Dichloropropene	U		0.00101	0.00312	1	11/21/2020 18:29	WG1580412
1,3-Dichloropropane	U		0.000625	0.00623	1	11/21/2020 18:29	WG1580412
cis-1,3-Dichloropropene	U		0.000944	0.00312	1	11/21/2020 18:29	WG1580412
trans-1,3-Dichloropropene	U		0.00142	0.00623	1	11/21/2020 18:29	WG1580412
2,2-Dichloropropane	U		0.00172	0.00312	1	11/21/2020 18:29	WG1580412
Di-isopropyl ether	U		0.000511	0.00125	1	11/21/2020 18:29	WG1580412
Ethylbenzene	U		0.000919	0.00312	1	11/21/2020 18:29	WG1580412
Hexachloro-1,3-butadiene	U		0.00748	0.0312	1	11/21/2020 18:29	WG1580412
Isopropylbenzene	U		0.000530	0.00312	1	11/21/2020 18:29	WG1580412
p-Isopropyltoluene	U		0.00318	0.00623	1	11/21/2020 18:29	WG1580412
2-Butanone (MEK)	U		0.0792	0.125	1	11/21/2020 18:29	WG1580412
Methylene Chloride	U		0.00828	0.0312	1	11/21/2020 18:29	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00284	0.0312	1	11/21/2020 18:29	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000436	0.00125	1	11/21/2020 18:29	WG1580412
Naphthalene	U		0.00609	0.0156	1	11/21/2020 18:29	WG1580412
n-Propylbenzene	U		0.00118	0.00623	1	11/21/2020 18:29	WG1580412
Styrene	U		0.000286	0.0156	1	11/21/2020 18:29	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00118	0.00312	1	11/21/2020 18:29	WG1580412
1,1,2,2-Tetrachloroethane	U		0.000867	0.00312	1	11/21/2020 18:29	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.000940	0.00312	1	11/21/2020 18:29	WG1580412
Tetrachloroethene	U		0.00112	0.00312	1	11/21/2020 18:29	WG1580412
Toluene	U		0.00162	0.00623	1	11/21/2020 18:29	WG1580412
1,2,3-Trichlorobenzene	U		0.00914	0.0156	1	11/21/2020 18:29	WG1580412
1,2,4-Trichlorobenzene	U		0.00549	0.0156	1	11/21/2020 18:29	WG1580412
1,1,1-Trichloroethane	U		0.00115	0.00312	1	11/21/2020 18:29	WG1580412
1,1,2-Trichloroethane	U		0.000744	0.00312	1	11/21/2020 18:29	WG1580412
Trichloroethene	U		0.000728	0.00125	1	11/21/2020 18:29	WG1580412
Trichlorofluoromethane	U		0.00103	0.00312	1	11/21/2020 18:29	WG1580412
1,2,3-Trichloropropane	U		0.00202	0.0156	1	11/21/2020 18:29	WG1580412
1,2,4-Trimethylbenzene	U		0.00197	0.00623	1	11/21/2020 18:29	WG1580412
1,2,3-Trimethylbenzene	U		0.00197	0.00623	1	11/21/2020 18:29	WG1580412
1,3,5-Trimethylbenzene	U		0.00249	0.00623	1	11/21/2020 18:29	WG1580412
Vinyl chloride	U		0.00145	0.00312	1	11/21/2020 18:29	WG1580412
Xylenes, Total	U		0.00110	0.00811	1	11/21/2020 18:29	WG1580412
(S) Toluene-d8	*95.9*			*75.0-131*		*11/21/2020 18:29*	WG1580412
(S) 4-Bromofluorobenzene	*94.0*			*67.0-138*		*11/21/2020 18:29*	WG1580412
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*		*11/21/2020 18:29*	WG1580412

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.2		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.118	B J	0.0414	0.125	1	11/23/2020 04:31	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*11/23/2020 04:31*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0556	0.0761	1	11/21/2020 18:48	WG1580412
Acrylonitrile	U		0.00550	0.0190	1	11/21/2020 18:48	WG1580412
Benzene	U		0.000711	0.00152	1	11/21/2020 18:48	WG1580412
Bromobenzene	U		0.00137	0.0190	1	11/21/2020 18:48	WG1580412
Bromodichloromethane	U		0.00110	0.00381	1	11/21/2020 18:48	WG1580412
Bromoform	U		0.00178	0.0381	1	11/21/2020 18:48	WG1580412
Bromomethane	U		0.00300	0.0190	1	11/21/2020 18:48	WG1580412
n-Butylbenzene	U		0.00799	0.0190	1	11/21/2020 18:48	WG1580412
sec-Butylbenzene	U		0.00439	0.0190	1	11/21/2020 18:48	WG1580412
tert-Butylbenzene	U		0.00297	0.00761	1	11/21/2020 18:48	WG1580412
Carbon tetrachloride	U		0.00137	0.00761	1	11/21/2020 18:48	WG1580412
Chlorobenzene	U		0.000320	0.00381	1	11/21/2020 18:48	WG1580412
Chlorodibromomethane	U		0.000932	0.00381	1	11/21/2020 18:48	WG1580412
Chloroethane	U		0.00259	0.00761	1	11/21/2020 18:48	WG1580412
Chloroform	U		0.00157	0.00381	1	11/21/2020 18:48	WG1580412
Chloromethane	U		0.00662	0.0190	1	11/21/2020 18:48	WG1580412
2-Chlorotoluene	U		0.00132	0.00381	1	11/21/2020 18:48	WG1580412
4-Chlorotoluene	U		0.000685	0.00761	1	11/21/2020 18:48	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00594	0.0381	1	11/21/2020 18:48	WG1580412
1,2-Dibromoethane	U		0.000987	0.00381	1	11/21/2020 18:48	WG1580412
Dibromomethane	U		0.00114	0.00761	1	11/21/2020 18:48	WG1580412
1,2-Dichlorobenzene	U		0.000647	0.00761	1	11/21/2020 18:48	WG1580412
1,3-Dichlorobenzene	U		0.000914	0.00761	1	11/21/2020 18:48	WG1580412
1,4-Dichlorobenzene	U		0.00107	0.00761	1	11/21/2020 18:48	WG1580412
Dichlorodifluoromethane	U		0.00245	0.00381	1	11/21/2020 18:48	WG1580412
1,1-Dichloroethane	U		0.000748	0.00381	1	11/21/2020 18:48	WG1580412
1,2-Dichloroethane	U		0.000988	0.00381	1	11/21/2020 18:48	WG1580412
1,1-Dichloroethene	U		0.000923	0.00381	1	11/21/2020 18:48	WG1580412
cis-1,2-Dichloroethene	U		0.00112	0.00381	1	11/21/2020 18:48	WG1580412
trans-1,2-Dichloroethene	U		0.00158	0.00761	1	11/21/2020 18:48	WG1580412
1,2-Dichloropropane	U		0.00216	0.00761	1	11/21/2020 18:48	WG1580412
1,1-Dichloropropene	U		0.00123	0.00381	1	11/21/2020 18:48	WG1580412
1,3-Dichloropropane	U		0.000763	0.00761	1	11/21/2020 18:48	WG1580412
cis-1,3-Dichloropropene	U		0.00115	0.00381	1	11/21/2020 18:48	WG1580412
trans-1,3-Dichloropropene	U		0.00174	0.00761	1	11/21/2020 18:48	WG1580412
2,2-Dichloropropane	U		0.00210	0.00381	1	11/21/2020 18:48	WG1580412
Di-isopropyl ether	U		0.000624	0.00152	1	11/21/2020 18:48	WG1580412
Ethylbenzene	U		0.00112	0.00381	1	11/21/2020 18:48	WG1580412
Hexachloro-1,3-butadiene	U		0.00914	0.0381	1	11/21/2020 18:48	WG1580412
Isopropylbenzene	U		0.000647	0.00381	1	11/21/2020 18:48	WG1580412
p-Isopropyltoluene	U		0.00388	0.00761	1	11/21/2020 18:48	WG1580412
2-Butanone (MEK)	U		0.0967	0.152	1	11/21/2020 18:48	WG1580412
Methylene Chloride	U		0.0101	0.0381	1	11/21/2020 18:48	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00347	0.0381	1	11/21/2020 18:48	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000533	0.00152	1	11/21/2020 18:48	WG1580412
Naphthalene	U		0.00743	0.0190	1	11/21/2020 18:48	WG1580412
n-Propylbenzene	U		0.00145	0.00761	1	11/21/2020 18:48	WG1580412
Styrene	U		0.000349	0.0190	1	11/21/2020 18:48	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00144	0.00381	1	11/21/2020 18:48	WG1580412
1,1,2,2-Tetrachloroethane	U		0.00106	0.00381	1	11/21/2020 18:48	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00115	0.00381	1	11/21/2020 18:48	WG1580412
Tetrachloroethene	0.00180	J	0.00136	0.00381	1	11/21/2020 18:48	WG1580412
Toluene	U		0.00198	0.00761	1	11/21/2020 18:48	WG1580412
1,2,3-Trichlorobenzene	U		0.0112	0.0190	1	11/21/2020 18:48	WG1580412
1,2,4-Trichlorobenzene	U		0.00670	0.0190	1	11/21/2020 18:48	WG1580412
1,1,1-Trichloroethane	U		0.00141	0.00381	1	11/21/2020 18:48	WG1580412
1,1,2-Trichloroethane	U		0.000909	0.00381	1	11/21/2020 18:48	WG1580412
Trichloroethene	U		0.000889	0.00152	1	11/21/2020 18:48	WG1580412
Trichlorofluoromethane	U		0.00126	0.00381	1	11/21/2020 18:48	WG1580412
1,2,3-Trichloropropane	U		0.00247	0.0190	1	11/21/2020 18:48	WG1580412
1,2,4-Trimethylbenzene	U		0.00241	0.00761	1	11/21/2020 18:48	WG1580412
1,2,3-Trimethylbenzene	U		0.00241	0.00761	1	11/21/2020 18:48	WG1580412
1,3,5-Trimethylbenzene	U		0.00305	0.00761	1	11/21/2020 18:48	WG1580412
Vinyl chloride	U		0.00177	0.00381	1	11/21/2020 18:48	WG1580412
Xylenes, Total	U		0.00134	0.00990	1	11/21/2020 18:48	WG1580412
(S) Toluene-d8	*96.1*			*75.0-131*		*11/21/2020 18:48*	WG1580412
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*11/21/2020 18:48*	WG1580412
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*11/21/2020 18:48*	WG1580412

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.8		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	U		0.0396	0.119	1	11/23/2020 04:56	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*92.9*			*77.0-120*		*11/23/2020 04:56*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0511	0.0700	1	11/21/2020 19:07	WG1580412
Acrylonitrile	U		0.00506	0.0175	1	11/21/2020 19:07	WG1580412
Benzene	U		0.000654	0.00140	1	11/21/2020 19:07	WG1580412
Bromobenzene	U		0.00126	0.0175	1	11/21/2020 19:07	WG1580412
Bromodichloromethane	U		0.00102	0.00350	1	11/21/2020 19:07	WG1580412
Bromoform	U		0.00164	0.0350	1	11/21/2020 19:07	WG1580412
Bromomethane	U		0.00276	0.0175	1	11/21/2020 19:07	WG1580412
n-Butylbenzene	U		0.00735	0.0175	1	11/21/2020 19:07	WG1580412
sec-Butylbenzene	U		0.00403	0.0175	1	11/21/2020 19:07	WG1580412
tert-Butylbenzene	U		0.00273	0.00700	1	11/21/2020 19:07	WG1580412
Carbon tetrachloride	U		0.00126	0.00700	1	11/21/2020 19:07	WG1580412
Chlorobenzene	U		0.000294	0.00350	1	11/21/2020 19:07	WG1580412
Chlorodibromomethane	U		0.000857	0.00350	1	11/21/2020 19:07	WG1580412
Chloroethane	U		0.00238	0.00700	1	11/21/2020 19:07	WG1580412
Chloroform	U		0.00144	0.00350	1	11/21/2020 19:07	WG1580412
Chloromethane	U		0.00609	0.0175	1	11/21/2020 19:07	WG1580412
2-Chlorotoluene	U		0.00121	0.00350	1	11/21/2020 19:07	WG1580412
4-Chlorotoluene	U		0.000630	0.00700	1	11/21/2020 19:07	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00546	0.0350	1	11/21/2020 19:07	WG1580412
1,2-Dibromoethane	U		0.000908	0.00350	1	11/21/2020 19:07	WG1580412
Dibromomethane	U		0.00105	0.00700	1	11/21/2020 19:07	WG1580412
1,2-Dichlorobenzene	U		0.000595	0.00700	1	11/21/2020 19:07	WG1580412
1,3-Dichlorobenzene	U		0.000840	0.00700	1	11/21/2020 19:07	WG1580412
1,4-Dichlorobenzene	U		0.000981	0.00700	1	11/21/2020 19:07	WG1580412
Dichlorodifluoromethane	U		0.00226	0.00350	1	11/21/2020 19:07	WG1580412
1,1-Dichloroethane	U		0.000688	0.00350	1	11/21/2020 19:07	WG1580412
1,2-Dichloroethane	U		0.000909	0.00350	1	11/21/2020 19:07	WG1580412
1,1-Dichloroethene	U		0.000849	0.00350	1	11/21/2020 19:07	WG1580412
cis-1,2-Dichloroethene	U		0.00103	0.00350	1	11/21/2020 19:07	WG1580412
trans-1,2-Dichloroethene	U		0.00146	0.00700	1	11/21/2020 19:07	WG1580412
1,2-Dichloropropane	U		0.00199	0.00700	1	11/21/2020 19:07	WG1580412
1,1-Dichloropropene	U		0.00113	0.00350	1	11/21/2020 19:07	WG1580412
1,3-Dichloropropane	U		0.000702	0.00700	1	11/21/2020 19:07	WG1580412
cis-1,3-Dichloropropene	U		0.00106	0.00350	1	11/21/2020 19:07	WG1580412
trans-1,3-Dichloropropene	U		0.00160	0.00700	1	11/21/2020 19:07	WG1580412
2,2-Dichloropropane	U		0.00193	0.00350	1	11/21/2020 19:07	WG1580412
Di-isopropyl ether	U		0.000574	0.00140	1	11/21/2020 19:07	WG1580412
Ethylbenzene	U		0.00103	0.00350	1	11/21/2020 19:07	WG1580412
Hexachloro-1,3-butadiene	U		0.00840	0.0350	1	11/21/2020 19:07	WG1580412
Isopropylbenzene	U		0.000595	0.00350	1	11/21/2020 19:07	WG1580412
p-Isopropyltoluene	U		0.00357	0.00700	1	11/21/2020 19:07	WG1580412
2-Butanone (MEK)	U		0.0890	0.140	1	11/21/2020 19:07	WG1580412
Methylene Chloride	U		0.00930	0.0350	1	11/21/2020 19:07	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00319	0.0350	1	11/21/2020 19:07	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000490	0.00140	1	11/21/2020 19:07	WG1580412
Naphthalene	U		0.00684	0.0175	1	11/21/2020 19:07	WG1580412
n-Propylbenzene	U		0.00133	0.00700	1	11/21/2020 19:07	WG1580412
Styrene	U		0.000321	0.0175	1	11/21/2020 19:07	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00133	0.00350	1	11/21/2020 19:07	WG1580412
1,1,2,2-Tetrachloroethane	U		0.000974	0.00350	1	11/21/2020 19:07	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00106	0.00350	1	11/21/2020 19:07	WG1580412
Tetrachloroethene	U		0.00126	0.00350	1	11/21/2020 19:07	WG1580412
Toluene	U		0.00182	0.00700	1	11/21/2020 19:07	WG1580412
1,2,3-Trichlorobenzene	U		0.0103	0.0175	1	11/21/2020 19:07	WG1580412
1,2,4-Trichlorobenzene	U		0.00616	0.0175	1	11/21/2020 19:07	WG1580412
1,1,1-Trichloroethane	U		0.00129	0.00350	1	11/21/2020 19:07	WG1580412
1,1,2-Trichloroethane	U		0.000836	0.00350	1	11/21/2020 19:07	WG1580412
Trichloroethene	U		0.000818	0.00140	1	11/21/2020 19:07	WG1580412
Trichlorofluoromethane	U		0.00116	0.00350	1	11/21/2020 19:07	WG1580412
1,2,3-Trichloropropane	U		0.00227	0.0175	1	11/21/2020 19:07	WG1580412
1,2,4-Trimethylbenzene	U		0.00221	0.00700	1	11/21/2020 19:07	WG1580412
1,2,3-Trimethylbenzene	U		0.00221	0.00700	1	11/21/2020 19:07	WG1580412
1,3,5-Trimethylbenzene	U		0.00280	0.00700	1	11/21/2020 19:07	WG1580412
Vinyl chloride	U		0.00162	0.00350	1	11/21/2020 19:07	WG1580412
Xylenes, Total	U		0.00123	0.00911	1	11/21/2020 19:07	WG1580412
(S) Toluene-d8	*95.1*			*75.0-131*		*11/21/2020 19:07*	WG1580412
(S) 4-Bromofluorobenzene	*94.2*			*67.0-138*		*11/21/2020 19:07*	WG1580412
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*11/21/2020 19:07*	WG1580412

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.5		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0876	B J	0.0446	0.134	1	11/23/2020 05:19	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*77.0-120*		*11/23/2020 05:19*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0639	0.0875	1	11/21/2020 19:26	WG1580412
Acrylonitrile	U		0.00632	0.0219	1	11/21/2020 19:26	WG1580412
Benzene	U		0.000818	0.00175	1	11/21/2020 19:26	WG1580412
Bromobenzene	U		0.00158	0.0219	1	11/21/2020 19:26	WG1580412
Bromodichloromethane	U		0.00127	0.00438	1	11/21/2020 19:26	WG1580412
Bromoform	U		0.00205	0.0438	1	11/21/2020 19:26	WG1580412
Bromomethane	U		0.00345	0.0219	1	11/21/2020 19:26	WG1580412
n-Butylbenzene	U		0.00919	0.0219	1	11/21/2020 19:26	WG1580412
sec-Butylbenzene	U		0.00504	0.0219	1	11/21/2020 19:26	WG1580412
tert-Butylbenzene	U		0.00341	0.00875	1	11/21/2020 19:26	WG1580412
Carbon tetrachloride	U		0.00157	0.00875	1	11/21/2020 19:26	WG1580412
Chlorobenzene	U		0.000368	0.00438	1	11/21/2020 19:26	WG1580412
Chlorodibromomethane	U		0.00107	0.00438	1	11/21/2020 19:26	WG1580412
Chloroethane	U		0.00298	0.00875	1	11/21/2020 19:26	WG1580412
Chloroform	U		0.00180	0.00438	1	11/21/2020 19:26	WG1580412
Chloromethane	U		0.00762	0.0219	1	11/21/2020 19:26	WG1580412
2-Chlorotoluene	U		0.00151	0.00438	1	11/21/2020 19:26	WG1580412
4-Chlorotoluene	U		0.000788	0.00875	1	11/21/2020 19:26	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00683	0.0438	1	11/21/2020 19:26	WG1580412
1,2-Dibromoethane	U		0.00113	0.00438	1	11/21/2020 19:26	WG1580412
Dibromomethane	U		0.00131	0.00875	1	11/21/2020 19:26	WG1580412
1,2-Dichlorobenzene	U		0.000744	0.00875	1	11/21/2020 19:26	WG1580412
1,3-Dichlorobenzene	U		0.00105	0.00875	1	11/21/2020 19:26	WG1580412
1,4-Dichlorobenzene	U		0.00123	0.00875	1	11/21/2020 19:26	WG1580412
Dichlorodifluoromethane	U		0.00282	0.00438	1	11/21/2020 19:26	WG1580412
1,1-Dichloroethane	U		0.000860	0.00438	1	11/21/2020 19:26	WG1580412
1,2-Dichloroethane	U		0.00114	0.00438	1	11/21/2020 19:26	WG1580412
1,1-Dichloroethene	U		0.00106	0.00438	1	11/21/2020 19:26	WG1580412
cis-1,2-Dichloroethene	U		0.00129	0.00438	1	11/21/2020 19:26	WG1580412
trans-1,2-Dichloroethene	U		0.00182	0.00875	1	11/21/2020 19:26	WG1580412
1,2-Dichloropropane	U		0.00249	0.00875	1	11/21/2020 19:26	WG1580412
1,1-Dichloropropene	U		0.00142	0.00438	1	11/21/2020 19:26	WG1580412
1,3-Dichloropropane	U		0.000877	0.00875	1	11/21/2020 19:26	WG1580412
cis-1,3-Dichloropropene	U		0.00133	0.00438	1	11/21/2020 19:26	WG1580412
trans-1,3-Dichloropropene	U		0.00200	0.00875	1	11/21/2020 19:26	WG1580412
2,2-Dichloropropane	U		0.00242	0.00438	1	11/21/2020 19:26	WG1580412
Di-isopropyl ether	U		0.000718	0.00175	1	11/21/2020 19:26	WG1580412
Ethylbenzene	U		0.00129	0.00438	1	11/21/2020 19:26	WG1580412
Hexachloro-1,3-butadiene	U		0.0105	0.0438	1	11/21/2020 19:26	WG1580412
Isopropylbenzene	U		0.000744	0.00438	1	11/21/2020 19:26	WG1580412
p-Isopropyltoluene	U		0.00446	0.00875	1	11/21/2020 19:26	WG1580412
2-Butanone (MEK)	U		0.111	0.175	1	11/21/2020 19:26	WG1580412
Methylene Chloride	U		0.0116	0.0438	1	11/21/2020 19:26	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00399	0.0438	1	11/21/2020 19:26	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000613	0.00175	1	11/21/2020 19:26	WG1580412
Naphthalene	U		0.00854	0.0219	1	11/21/2020 19:26	WG1580412
n-Propylbenzene	U		0.00166	0.00875	1	11/21/2020 19:26	WG1580412
Styrene	U		0.000401	0.0219	1	11/21/2020 19:26	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00166	0.00438	1	11/21/2020 19:26	WG1580412
1,1,2,2-Tetrachloroethane	U		0.00122	0.00438	1	11/21/2020 19:26	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00132	0.00438	1	11/21/2020 19:26	WG1580412
Tetrachloroethene	U		0.00157	0.00438	1	11/21/2020 19:26	WG1580412
Toluene	U		0.00228	0.00875	1	11/21/2020 19:26	WG1580412
1,2,3-Trichlorobenzene	U		0.0128	0.0219	1	11/21/2020 19:26	WG1580412
1,2,4-Trichlorobenzene	U		0.00770	0.0219	1	11/21/2020 19:26	WG1580412
1,1,1-Trichloroethane	U		0.00162	0.00438	1	11/21/2020 19:26	WG1580412
1,1,2-Trichloroethane	U		0.00105	0.00438	1	11/21/2020 19:26	WG1580412
Trichloroethene	U		0.00102	0.00175	1	11/21/2020 19:26	WG1580412
Trichlorofluoromethane	U		0.00145	0.00438	1	11/21/2020 19:26	WG1580412
1,2,3-Trichloropropane	U		0.00284	0.0219	1	11/21/2020 19:26	WG1580412
1,2,4-Trimethylbenzene	U		0.00277	0.00875	1	11/21/2020 19:26	WG1580412
1,2,3-Trimethylbenzene	U		0.00277	0.00875	1	11/21/2020 19:26	WG1580412
1,3,5-Trimethylbenzene	U		0.00350	0.00875	1	11/21/2020 19:26	WG1580412
Vinyl chloride	U		0.00203	0.00438	1	11/21/2020 19:26	WG1580412
Xylenes, Total	U		0.00154	0.0114	1	11/21/2020 19:26	WG1580412
(S) Toluene-d8	*95.9*			*75.0-131*		*11/21/2020 19:26*	WG1580412
(S) 4-Bromofluorobenzene	*94.8*			*67.0-138*		*11/21/2020 19:26*	WG1580412
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*11/21/2020 19:26*	WG1580412

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	U		30.4	100	1	11/22/2020 14:55	WG1580561
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*78.0-120*		*11/22/2020 14:55*	WG1580561

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	11/22/2020 03:04	WG1580362
Acrolein	U		2.54	50.0	1	11/22/2020 03:04	WG1580362
Acrylonitrile	U		0.671	10.0	1	11/22/2020 03:04	WG1580362
Benzene	0.0966	J	0.0941	1.00	1	11/22/2020 03:04	WG1580362
Bromobenzene	U		0.118	1.00	1	11/22/2020 03:04	WG1580362
Bromodichloromethane	U		0.136	1.00	1	11/22/2020 03:04	WG1580362
Bromoform	U		0.129	1.00	1	11/22/2020 03:04	WG1580362
Bromomethane	U		0.605	5.00	1	11/22/2020 03:04	WG1580362
n-Butylbenzene	U		0.157	1.00	1	11/22/2020 03:04	WG1580362
sec-Butylbenzene	U		0.125	1.00	1	11/22/2020 03:04	WG1580362
tert-Butylbenzene	U		0.127	1.00	1	11/22/2020 03:04	WG1580362
Carbon tetrachloride	U		0.128	1.00	1	11/22/2020 03:04	WG1580362
Chlorobenzene	U		0.116	1.00	1	11/22/2020 03:04	WG1580362
Chlorodibromomethane	U		0.140	1.00	1	11/22/2020 03:04	WG1580362
Chloroethane	U		0.192	5.00	1	11/22/2020 03:04	WG1580362
Chloroform	0.641	J	0.111	5.00	1	11/22/2020 03:04	WG1580362
Chloromethane	U		0.960	2.50	1	11/22/2020 03:04	WG1580362
2-Chlorotoluene	U	J4	0.106	1.00	1	11/22/2020 03:04	WG1580362
4-Chlorotoluene	U		0.114	1.00	1	11/22/2020 03:04	WG1580362
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/22/2020 03:04	WG1580362
1,2-Dibromoethane	U		0.126	1.00	1	11/22/2020 03:04	WG1580362
Dibromomethane	U		0.122	1.00	1	11/22/2020 03:04	WG1580362
1,2-Dichlorobenzene	U		0.107	1.00	1	11/22/2020 03:04	WG1580362
1,3-Dichlorobenzene	U		0.110	1.00	1	11/22/2020 03:04	WG1580362
1,4-Dichlorobenzene	U		0.120	1.00	1	11/22/2020 03:04	WG1580362
Dichlorodifluoromethane	U		0.374	5.00	1	11/22/2020 03:04	WG1580362
1,1-Dichloroethane	U		0.100	1.00	1	11/22/2020 03:04	WG1580362
1,2-Dichloroethane	U		0.0819	1.00	1	11/22/2020 03:04	WG1580362
1,1-Dichloroethene	U		0.188	1.00	1	11/22/2020 03:04	WG1580362
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/22/2020 03:04	WG1580362
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/22/2020 03:04	WG1580362
1,2-Dichloropropane	U		0.149	1.00	1	11/22/2020 03:04	WG1580362
1,1-Dichloropropene	U		0.142	1.00	1	11/22/2020 03:04	WG1580362
1,3-Dichloropropane	U		0.110	1.00	1	11/22/2020 03:04	WG1580362
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/22/2020 03:04	WG1580362
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/22/2020 03:04	WG1580362
2,2-Dichloropropane	U		0.161	1.00	1	11/22/2020 03:04	WG1580362
Di-isopropyl ether	U		0.105	1.00	1	11/22/2020 03:04	WG1580362
Ethylbenzene	U		0.137	1.00	1	11/22/2020 03:04	WG1580362
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/22/2020 03:04	WG1580362
Isopropylbenzene	U		0.105	1.00	1	11/22/2020 03:04	WG1580362
p-Isopropyltoluene	U		0.120	1.00	1	11/22/2020 03:04	WG1580362
2-Butanone (MEK)	U		1.19	10.0	1	11/22/2020 03:04	WG1580362
Methylene Chloride	U		0.430	5.00	1	11/22/2020 03:04	WG1580362
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/22/2020 03:04	WG1580362
Methyl tert-butyl ether	U		0.101	1.00	1	11/22/2020 03:04	WG1580362
Naphthalene	U		1.00	5.00	1	11/22/2020 03:04	WG1580362
n-Propylbenzene	U	J4	0.0993	1.00	1	11/22/2020 03:04	WG1580362
Styrene	U		0.118	1.00	1	11/22/2020 03:04	WG1580362

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/22/2020 03:04	WG1580362
1,1,2,2-Tetrachloroethane	U	J4	0.133	1.00	1	11/22/2020 03:04	WG1580362
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/22/2020 03:04	WG1580362
Tetrachloroethene	1.52		0.300	1.00	1	11/22/2020 03:04	WG1580362
Toluene	U		0.278	1.00	1	11/22/2020 03:04	WG1580362
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/22/2020 03:04	WG1580362
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/22/2020 03:04	WG1580362
1,1,1-Trichloroethane	U		0.149	1.00	1	11/22/2020 03:04	WG1580362
1,1,2-Trichloroethane	U		0.158	1.00	1	11/22/2020 03:04	WG1580362
Trichloroethene	0.310	J	0.190	1.00	1	11/22/2020 03:04	WG1580362
Trichlorofluoromethane	1.06	J	0.160	5.00	1	11/22/2020 03:04	WG1580362
1,2,3-Trichloropropane	U		0.237	2.50	1	11/22/2020 03:04	WG1580362
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/22/2020 03:04	WG1580362
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 03:04	WG1580362
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 03:04	WG1580362
Vinyl chloride	U		0.234	1.00	1	11/22/2020 03:04	WG1580362
Xylenes, Total	0.387	J	0.174	3.00	1	11/22/2020 03:04	WG1580362
(S) Toluene-d8	*101*			*80.0-120*		*11/22/2020 03:04*	WG1580362
(S) 4-Bromofluorobenzene	*91.6*			*77.0-126*		*11/22/2020 03:04*	WG1580362
(S) 1,2-Dichloroethane-d4	*88.0*			*70.0-130*		*11/22/2020 03:04*	WG1580362

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	U		0.0392	0.118	1	11/23/2020 05:42	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*93.6*			*77.0-120*		*11/23/2020 05:42*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0643	0.0881	1.34	11/21/2020 19:45	WG1580412
Acrylonitrile	U		0.00637	0.0221	1.34	11/21/2020 19:45	WG1580412
Benzene	U		0.000823	0.00176	1.34	11/21/2020 19:45	WG1580412
Bromobenzene	U		0.00159	0.0221	1.34	11/21/2020 19:45	WG1580412
Bromodichloromethane	U		0.00128	0.00441	1.34	11/21/2020 19:45	WG1580412
Bromoform	U		0.00206	0.0441	1.34	11/21/2020 19:45	WG1580412
Bromomethane	U		0.00347	0.0221	1.34	11/21/2020 19:45	WG1580412
n-Butylbenzene	U		0.00926	0.0221	1.34	11/21/2020 19:45	WG1580412
sec-Butylbenzene	U		0.00508	0.0221	1.34	11/21/2020 19:45	WG1580412
tert-Butylbenzene	U		0.00343	0.00881	1.34	11/21/2020 19:45	WG1580412
Carbon tetrachloride	U		0.00158	0.00881	1.34	11/21/2020 19:45	WG1580412
Chlorobenzene	U		0.000370	0.00441	1.34	11/21/2020 19:45	WG1580412
Chlorodibromomethane	U		0.00108	0.00441	1.34	11/21/2020 19:45	WG1580412
Chloroethane	U		0.00300	0.00881	1.34	11/21/2020 19:45	WG1580412
Chloroform	U		0.00182	0.00441	1.34	11/21/2020 19:45	WG1580412
Chloromethane	U		0.00767	0.0221	1.34	11/21/2020 19:45	WG1580412
2-Chlorotoluene	U		0.00153	0.00441	1.34	11/21/2020 19:45	WG1580412
4-Chlorotoluene	U		0.000793	0.00881	1.34	11/21/2020 19:45	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00688	0.0441	1.34	11/21/2020 19:45	WG1580412
1,2-Dibromoethane	U		0.00114	0.00441	1.34	11/21/2020 19:45	WG1580412
Dibromomethane	U		0.00133	0.00881	1.34	11/21/2020 19:45	WG1580412
1,2-Dichlorobenzene	U		0.000750	0.00881	1.34	11/21/2020 19:45	WG1580412
1,3-Dichlorobenzene	U		0.00106	0.00881	1.34	11/21/2020 19:45	WG1580412
1,4-Dichlorobenzene	U		0.00123	0.00881	1.34	11/21/2020 19:45	WG1580412
Dichlorodifluoromethane	U		0.00284	0.00441	1.34	11/21/2020 19:45	WG1580412
1,1-Dichloroethane	U		0.000865	0.00441	1.34	11/21/2020 19:45	WG1580412
1,2-Dichloroethane	U		0.00114	0.00441	1.34	11/21/2020 19:45	WG1580412
1,1-Dichloroethene	U		0.00107	0.00441	1.34	11/21/2020 19:45	WG1580412
cis-1,2-Dichloroethene	U		0.00129	0.00441	1.34	11/21/2020 19:45	WG1580412
trans-1,2-Dichloroethene	U		0.00183	0.00881	1.34	11/21/2020 19:45	WG1580412
1,2-Dichloropropane	U		0.00250	0.00881	1.34	11/21/2020 19:45	WG1580412
1,1-Dichloropropene	U		0.00142	0.00441	1.34	11/21/2020 19:45	WG1580412
1,3-Dichloropropane	U		0.000883	0.00881	1.34	11/21/2020 19:45	WG1580412
cis-1,3-Dichloropropene	U		0.00133	0.00441	1.34	11/21/2020 19:45	WG1580412
trans-1,3-Dichloropropene	U		0.00201	0.00881	1.34	11/21/2020 19:45	WG1580412
2,2-Dichloropropane	U		0.00243	0.00441	1.34	11/21/2020 19:45	WG1580412
Di-isopropyl ether	U		0.000722	0.00176	1.34	11/21/2020 19:45	WG1580412
Ethylbenzene	U		0.00130	0.00441	1.34	11/21/2020 19:45	WG1580412
Hexachloro-1,3-butadiene	U		0.0106	0.0441	1.34	11/21/2020 19:45	WG1580412
Isopropylbenzene	U		0.000750	0.00441	1.34	11/21/2020 19:45	WG1580412
p-Isopropyltoluene	U		0.00450	0.00881	1.34	11/21/2020 19:45	WG1580412
2-Butanone (MEK)	U		0.112	0.176	1.34	11/21/2020 19:45	WG1580412
Methylene Chloride	U		0.0117	0.0441	1.34	11/21/2020 19:45	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00402	0.0441	1.34	11/21/2020 19:45	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000617	0.00176	1.34	11/21/2020 19:45	WG1580412
Naphthalene	U		0.00860	0.0221	1.34	11/21/2020 19:45	WG1580412
n-Propylbenzene	U		0.00167	0.00881	1.34	11/21/2020 19:45	WG1580412
Styrene	U		0.000404	0.0221	1.34	11/21/2020 19:45	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00167	0.00441	1.34	11/21/2020 19:45	WG1580412
1,1,2,2-Tetrachloroethane	U		0.00122	0.00441	1.34	11/21/2020 19:45	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00133	0.00441	1.34	11/21/2020 19:45	WG1580412
Tetrachloroethene	U		0.00158	0.00441	1.34	11/21/2020 19:45	WG1580412
Toluene	U		0.00229	0.00881	1.34	11/21/2020 19:45	WG1580412
1,2,3-Trichlorobenzene	U		0.0129	0.0221	1.34	11/21/2020 19:45	WG1580412
1,2,4-Trichlorobenzene	U		0.00776	0.0221	1.34	11/21/2020 19:45	WG1580412
1,1,1-Trichloroethane	U		0.00163	0.00441	1.34	11/21/2020 19:45	WG1580412
1,1,2-Trichloroethane	U		0.00105	0.00441	1.34	11/21/2020 19:45	WG1580412
Trichloroethene	U		0.00103	0.00176	1.34	11/21/2020 19:45	WG1580412
Trichlorofluoromethane	U		0.00146	0.00441	1.34	11/21/2020 19:45	WG1580412
1,2,3-Trichloropropane	U		0.00285	0.0221	1.34	11/21/2020 19:45	WG1580412
1,2,4-Trimethylbenzene	U		0.00279	0.00881	1.34	11/21/2020 19:45	WG1580412
1,2,3-Trimethylbenzene	U		0.00279	0.00881	1.34	11/21/2020 19:45	WG1580412
1,3,5-Trimethylbenzene	U		0.00352	0.00881	1.34	11/21/2020 19:45	WG1580412
Vinyl chloride	U		0.00204	0.00441	1.34	11/21/2020 19:45	WG1580412
Xylenes, Total	U		0.00155	0.0115	1.34	11/21/2020 19:45	WG1580412
(S) Toluene-d8	*96.3*			*75.0-131*		*11/21/2020 19:45*	WG1580412
(S) 4-Bromofluorobenzene	*94.9*			*67.0-138*		*11/21/2020 19:45*	WG1580412
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*11/21/2020 19:45*	WG1580412

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	34.5	B J	30.4	100	1	11/22/2020 15:17	WG1580561
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*78.0-120*		*11/22/2020 15:17*	WG1580561

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	57.7		11.3	50.0	1	11/22/2020 03:26	WG1580362
Acrolein	U		2.54	50.0	1	11/22/2020 03:26	WG1580362
Acrylonitrile	U		0.671	10.0	1	11/22/2020 03:26	WG1580362
Benzene	0.350	J	0.0941	1.00	1	11/22/2020 03:26	WG1580362
Bromobenzene	U		0.118	1.00	1	11/22/2020 03:26	WG1580362
Bromodichloromethane	U		0.136	1.00	1	11/22/2020 03:26	WG1580362
Bromoform	U		0.129	1.00	1	11/22/2020 03:26	WG1580362
Bromomethane	U		0.605	5.00	1	11/22/2020 03:26	WG1580362
n-Butylbenzene	U		0.157	1.00	1	11/22/2020 03:26	WG1580362
sec-Butylbenzene	U		0.125	1.00	1	11/22/2020 03:26	WG1580362
tert-Butylbenzene	U		0.127	1.00	1	11/22/2020 03:26	WG1580362
Carbon tetrachloride	U		0.128	1.00	1	11/22/2020 03:26	WG1580362
Chlorobenzene	U		0.116	1.00	1	11/22/2020 03:26	WG1580362
Chlorodibromomethane	U		0.140	1.00	1	11/22/2020 03:26	WG1580362
Chloroethane	U		0.192	5.00	1	11/22/2020 03:26	WG1580362
Chloroform	0.376	J	0.111	5.00	1	11/22/2020 03:26	WG1580362
Chloromethane	U		0.960	2.50	1	11/22/2020 03:26	WG1580362
2-Chlorotoluene	U	J4	0.106	1.00	1	11/22/2020 03:26	WG1580362
4-Chlorotoluene	U		0.114	1.00	1	11/22/2020 03:26	WG1580362
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/22/2020 03:26	WG1580362
1,2-Dibromoethane	U		0.126	1.00	1	11/22/2020 03:26	WG1580362
Dibromomethane	U		0.122	1.00	1	11/22/2020 03:26	WG1580362
1,2-Dichlorobenzene	U		0.107	1.00	1	11/22/2020 03:26	WG1580362
1,3-Dichlorobenzene	U		0.110	1.00	1	11/22/2020 03:26	WG1580362
1,4-Dichlorobenzene	U		0.120	1.00	1	11/22/2020 03:26	WG1580362
Dichlorodifluoromethane	U		0.374	5.00	1	11/22/2020 03:26	WG1580362
1,1-Dichloroethane	U		0.100	1.00	1	11/22/2020 03:26	WG1580362
1,2-Dichloroethane	U		0.0819	1.00	1	11/22/2020 03:26	WG1580362
1,1-Dichloroethene	U		0.188	1.00	1	11/22/2020 03:26	WG1580362
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/22/2020 03:26	WG1580362
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/22/2020 03:26	WG1580362
1,2-Dichloropropane	U		0.149	1.00	1	11/22/2020 03:26	WG1580362
1,1-Dichloropropene	U		0.142	1.00	1	11/22/2020 03:26	WG1580362
1,3-Dichloropropane	U		0.110	1.00	1	11/22/2020 03:26	WG1580362
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/22/2020 03:26	WG1580362
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/22/2020 03:26	WG1580362
2,2-Dichloropropane	U		0.161	1.00	1	11/22/2020 03:26	WG1580362
Di-isopropyl ether	U		0.105	1.00	1	11/22/2020 03:26	WG1580362
Ethylbenzene	U		0.137	1.00	1	11/22/2020 03:26	WG1580362
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/22/2020 03:26	WG1580362
Isopropylbenzene	U		0.105	1.00	1	11/22/2020 03:26	WG1580362
p-Isopropyltoluene	U		0.120	1.00	1	11/22/2020 03:26	WG1580362
2-Butanone (MEK)	8.50	J	1.19	10.0	1	11/22/2020 03:26	WG1580362
Methylene Chloride	U		0.430	5.00	1	11/22/2020 03:26	WG1580362
4-Methyl-2-pentanone (MIBK)	0.595	J	0.478	10.0	1	11/22/2020 03:26	WG1580362
Methyl tert-butyl ether	U		0.101	1.00	1	11/22/2020 03:26	WG1580362
Naphthalene	U		1.00	5.00	1	11/22/2020 03:26	WG1580362
n-Propylbenzene	U	J4	0.0993	1.00	1	11/22/2020 03:26	WG1580362
Styrene	U		0.118	1.00	1	11/22/2020 03:26	WG1580362

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/22/2020 03:26	WG1580362
1,1,2,2-Tetrachloroethane	U	J4	0.133	1.00	1	11/22/2020 03:26	WG1580362
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/22/2020 03:26	WG1580362
Tetrachloroethene	0.427	J	0.300	1.00	1	11/22/2020 03:26	WG1580362
Toluene	0.330	J	0.278	1.00	1	11/22/2020 03:26	WG1580362
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/22/2020 03:26	WG1580362
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/22/2020 03:26	WG1580362
1,1,1-Trichloroethane	U		0.149	1.00	1	11/22/2020 03:26	WG1580362
1,1,2-Trichloroethane	U		0.158	1.00	1	11/22/2020 03:26	WG1580362
Trichloroethene	U		0.190	1.00	1	11/22/2020 03:26	WG1580362
Trichlorofluoromethane	U		0.160	5.00	1	11/22/2020 03:26	WG1580362
1,2,3-Trichloropropane	U		0.237	2.50	1	11/22/2020 03:26	WG1580362
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/22/2020 03:26	WG1580362
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 03:26	WG1580362
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 03:26	WG1580362
Vinyl chloride	U		0.234	1.00	1	11/22/2020 03:26	WG1580362
Xylenes, Total	0.302	J	0.174	3.00	1	11/22/2020 03:26	WG1580362
(S) Toluene-d8	*101*			*80.0-120*		*11/22/2020 03:26*	WG1580362
(S) 4-Bromofluorobenzene	*91.1*			*77.0-126*		*11/22/2020 03:26*	WG1580362
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*		*11/22/2020 03:26*	WG1580362

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0634	B J	0.0430	0.130	1.14	11/23/2020 06:05	WG1580857
(S) a,a,a-Trifluorotoluene(FID)	*89.8*			*77.0-120*		*11/23/2020 06:05*	WG1580857

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.292	0.401	6.56	11/21/2020 20:04	WG1580412
Acrylonitrile	U		0.0289	0.100	6.56	11/21/2020 20:04	WG1580412
Benzene	U		0.00374	0.00801	6.56	11/21/2020 20:04	WG1580412
Bromobenzene	U		0.00721	0.100	6.56	11/21/2020 20:04	WG1580412
Bromodichloromethane	U		0.00581	0.0200	6.56	11/21/2020 20:04	WG1580412
Bromoform	U		0.00938	0.200	6.56	11/21/2020 20:04	WG1580412
Bromomethane	U		0.0158	0.100	6.56	11/21/2020 20:04	WG1580412
n-Butylbenzene	U		0.0420	0.100	6.56	11/21/2020 20:04	WG1580412
sec-Butylbenzene	U		0.0231	0.100	6.56	11/21/2020 20:04	WG1580412
tert-Butylbenzene	U		0.0156	0.0401	6.56	11/21/2020 20:04	WG1580412
Carbon tetrachloride	U		0.00719	0.0401	6.56	11/21/2020 20:04	WG1580412
Chlorobenzene	U		0.00169	0.0200	6.56	11/21/2020 20:04	WG1580412
Chlorodibromomethane	U		0.00490	0.0200	6.56	11/21/2020 20:04	WG1580412
Chloroethane	U		0.0137	0.0401	6.56	11/21/2020 20:04	WG1580412
Chloroform	U		0.00826	0.0200	6.56	11/21/2020 20:04	WG1580412
Chloromethane	U		0.0348	0.100	6.56	11/21/2020 20:04	WG1580412
2-Chlorotoluene	U		0.00692	0.0200	6.56	11/21/2020 20:04	WG1580412
4-Chlorotoluene	U		0.00360	0.0401	6.56	11/21/2020 20:04	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.0313	0.200	6.56	11/21/2020 20:04	WG1580412
1,2-Dibromoethane	U		0.00519	0.0200	6.56	11/21/2020 20:04	WG1580412
Dibromomethane	U		0.00601	0.0401	6.56	11/21/2020 20:04	WG1580412
1,2-Dichlorobenzene	U		0.00341	0.0401	6.56	11/21/2020 20:04	WG1580412
1,3-Dichlorobenzene	U		0.00481	0.0401	6.56	11/21/2020 20:04	WG1580412
1,4-Dichlorobenzene	U		0.00561	0.0401	6.56	11/21/2020 20:04	WG1580412
Dichlorodifluoromethane	U		0.0129	0.0200	6.56	11/21/2020 20:04	WG1580412
1,1-Dichloroethane	U		0.00393	0.0200	6.56	11/21/2020 20:04	WG1580412
1,2-Dichloroethane	U		0.00520	0.0200	6.56	11/21/2020 20:04	WG1580412
1,1-Dichloroethene	U		0.00486	0.0200	6.56	11/21/2020 20:04	WG1580412
cis-1,2-Dichloroethene	U		0.00589	0.0200	6.56	11/21/2020 20:04	WG1580412
trans-1,2-Dichloroethene	U		0.00833	0.0401	6.56	11/21/2020 20:04	WG1580412
1,2-Dichloropropane	U		0.0114	0.0401	6.56	11/21/2020 20:04	WG1580412
1,1-Dichloropropene	U		0.00648	0.0200	6.56	11/21/2020 20:04	WG1580412
1,3-Dichloropropane	U		0.00402	0.0401	6.56	11/21/2020 20:04	WG1580412
cis-1,3-Dichloropropene	U		0.00607	0.0200	6.56	11/21/2020 20:04	WG1580412
trans-1,3-Dichloropropene	U		0.00913	0.0401	6.56	11/21/2020 20:04	WG1580412
2,2-Dichloropropane	U		0.0111	0.0200	6.56	11/21/2020 20:04	WG1580412
Di-isopropyl ether	U		0.00329	0.00801	6.56	11/21/2020 20:04	WG1580412
Ethylbenzene	U		0.00590	0.0200	6.56	11/21/2020 20:04	WG1580412
Hexachloro-1,3-butadiene	U		0.0481	0.200	6.56	11/21/2020 20:04	WG1580412
Isopropylbenzene	U		0.00341	0.0200	6.56	11/21/2020 20:04	WG1580412
p-Isopropyltoluene	U		0.0204	0.0401	6.56	11/21/2020 20:04	WG1580412
2-Butanone (MEK)	U		0.509	0.801	6.56	11/21/2020 20:04	WG1580412
Methylene Chloride	0.0777	J	0.0532	0.200	6.56	11/21/2020 20:04	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.0183	0.200	6.56	11/21/2020 20:04	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00281	0.00801	6.56	11/21/2020 20:04	WG1580412
Naphthalene	U		0.0391	0.100	6.56	11/21/2020 20:04	WG1580412
n-Propylbenzene	U		0.00761	0.0401	6.56	11/21/2020 20:04	WG1580412
Styrene	U		0.00183	0.100	6.56	11/21/2020 20:04	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00760	0.0200	6.56	11/21/2020 20:04	WG1580412
1,1,2,2-Tetrachloroethane	U		0.00557	0.0200	6.56	11/21/2020 20:04	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00604	0.0200	6.56	11/21/2020 20:04	WG1580412
Tetrachloroethene	U		0.00718	0.0200	6.56	11/21/2020 20:04	WG1580412
Toluene	U		0.0104	0.0401	6.56	11/21/2020 20:04	WG1580412
1,2,3-Trichlorobenzene	U		0.0587	0.100	6.56	11/21/2020 20:04	WG1580412
1,2,4-Trichlorobenzene	U		0.0353	0.100	6.56	11/21/2020 20:04	WG1580412
1,1,1-Trichloroethane	U		0.00739	0.0200	6.56	11/21/2020 20:04	WG1580412
1,1,2-Trichloroethane	U		0.00479	0.0200	6.56	11/21/2020 20:04	WG1580412
Trichloroethene	U		0.00468	0.00801	6.56	11/21/2020 20:04	WG1580412
Trichlorofluoromethane	U		0.00663	0.0200	6.56	11/21/2020 20:04	WG1580412
1,2,3-Trichloropropane	U		0.0129	0.100	6.56	11/21/2020 20:04	WG1580412
1,2,4-Trimethylbenzene	U		0.0127	0.0401	6.56	11/21/2020 20:04	WG1580412
1,2,3-Trimethylbenzene	U		0.0127	0.0401	6.56	11/21/2020 20:04	WG1580412
1,3,5-Trimethylbenzene	U		0.0160	0.0401	6.56	11/21/2020 20:04	WG1580412
Vinyl chloride	U		0.00929	0.0200	6.56	11/21/2020 20:04	WG1580412
Xylenes, Total	U		0.00705	0.0520	6.56	11/21/2020 20:04	WG1580412
(S) Toluene-d8	*91.8*			*75.0-131*		*11/21/2020 20:04*	WG1580412
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*11/21/2020 20:04*	WG1580412
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*11/21/2020 20:04*	WG1580412

Sample Narrative:

L1286255-20 WG1580412: Lowest possible dilution due to limited sample volume.

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	U		30.4	100	1	11/22/2020 15:39	WG1580561
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*		*11/22/2020 15:39*	WG1580561

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	11/22/2020 11:10	WG1580365
Acrolein	U		2.54	50.0	1	11/22/2020 11:10	WG1580365
Acrylonitrile	U		0.671	10.0	1	11/22/2020 11:10	WG1580365
Benzene	U		0.0941	1.00	1	11/22/2020 11:10	WG1580365
Bromobenzene	U		0.118	1.00	1	11/22/2020 11:10	WG1580365
Bromodichloromethane	U		0.136	1.00	1	11/22/2020 11:10	WG1580365
Bromoform	U		0.129	1.00	1	11/22/2020 11:10	WG1580365
Bromomethane	U		0.605	5.00	1	11/22/2020 11:10	WG1580365
n-Butylbenzene	U		0.157	1.00	1	11/22/2020 11:10	WG1580365
sec-Butylbenzene	U		0.125	1.00	1	11/22/2020 11:10	WG1580365
tert-Butylbenzene	U		0.127	1.00	1	11/22/2020 11:10	WG1580365
Carbon tetrachloride	U		0.128	1.00	1	11/22/2020 11:10	WG1580365
Chlorobenzene	U		0.116	1.00	1	11/22/2020 11:10	WG1580365
Chlorodibromomethane	U		0.140	1.00	1	11/22/2020 11:10	WG1580365
Chloroethane	U		0.192	5.00	1	11/22/2020 11:10	WG1580365
Chloroform	2.20	J	0.111	5.00	1	11/22/2020 11:10	WG1580365
Chloromethane	U		0.960	2.50	1	11/22/2020 11:10	WG1580365
2-Chlorotoluene	U		0.106	1.00	1	11/22/2020 11:10	WG1580365
4-Chlorotoluene	U		0.114	1.00	1	11/22/2020 11:10	WG1580365
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/22/2020 11:10	WG1580365
1,2-Dibromoethane	U		0.126	1.00	1	11/22/2020 11:10	WG1580365
Dibromomethane	U		0.122	1.00	1	11/22/2020 11:10	WG1580365
1,2-Dichlorobenzene	U		0.107	1.00	1	11/22/2020 11:10	WG1580365
1,3-Dichlorobenzene	U		0.110	1.00	1	11/22/2020 11:10	WG1580365
1,4-Dichlorobenzene	U		0.120	1.00	1	11/22/2020 11:10	WG1580365
Dichlorodifluoromethane	U		0.374	5.00	1	11/22/2020 11:10	WG1580365
1,1-Dichloroethane	U		0.100	1.00	1	11/22/2020 11:10	WG1580365
1,2-Dichloroethane	U		0.0819	1.00	1	11/22/2020 11:10	WG1580365
1,1-Dichloroethene	U		0.188	1.00	1	11/22/2020 11:10	WG1580365
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/22/2020 11:10	WG1580365
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/22/2020 11:10	WG1580365
1,2-Dichloropropane	U		0.149	1.00	1	11/22/2020 11:10	WG1580365
1,1-Dichloropropene	U		0.142	1.00	1	11/22/2020 11:10	WG1580365
1,3-Dichloropropane	U		0.110	1.00	1	11/22/2020 11:10	WG1580365
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/22/2020 11:10	WG1580365
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/22/2020 11:10	WG1580365
2,2-Dichloropropane	U		0.161	1.00	1	11/22/2020 11:10	WG1580365
Di-isopropyl ether	U		0.105	1.00	1	11/22/2020 11:10	WG1580365
Ethylbenzene	U		0.137	1.00	1	11/22/2020 11:10	WG1580365
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/22/2020 11:10	WG1580365
Isopropylbenzene	U		0.105	1.00	1	11/22/2020 11:10	WG1580365
p-Isopropyltoluene	U		0.120	1.00	1	11/22/2020 11:10	WG1580365
2-Butanone (MEK)	U		1.19	10.0	1	11/22/2020 11:10	WG1580365
Methylene Chloride	U		0.430	5.00	1	11/22/2020 11:10	WG1580365
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/22/2020 11:10	WG1580365
Methyl tert-butyl ether	U		0.101	1.00	1	11/22/2020 11:10	WG1580365
Naphthalene	U		1.00	5.00	1	11/22/2020 11:10	WG1580365
n-Propylbenzene	U		0.0993	1.00	1	11/22/2020 11:10	WG1580365
Styrene	U		0.118	1.00	1	11/22/2020 11:10	WG1580365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/22/2020 11:10	WG1580365
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/22/2020 11:10	WG1580365
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/22/2020 11:10	WG1580365
Tetrachloroethene	U		0.300	1.00	1	11/22/2020 11:10	WG1580365
Toluene	U		0.278	1.00	1	11/22/2020 11:10	WG1580365
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/22/2020 11:10	WG1580365
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/22/2020 11:10	WG1580365
1,1,1-Trichloroethane	U		0.149	1.00	1	11/22/2020 11:10	WG1580365
1,1,2-Trichloroethane	U		0.158	1.00	1	11/22/2020 11:10	WG1580365
Trichloroethene	U		0.190	1.00	1	11/22/2020 11:10	WG1580365
Trichlorofluoromethane	0.650	J	0.160	5.00	1	11/22/2020 11:10	WG1580365
1,2,3-Trichloropropane	U		0.237	2.50	1	11/22/2020 11:10	WG1580365
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/22/2020 11:10	WG1580365
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 11:10	WG1580365
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 11:10	WG1580365
Vinyl chloride	U		0.234	1.00	1	11/22/2020 11:10	WG1580365
Xylenes, Total	U		0.174	3.00	1	11/22/2020 11:10	WG1580365
(S) Toluene-d8	*106*			*80.0-120*		*11/22/2020 11:10*	WG1580365
(S) 4-Bromofluorobenzene	*95.6*			*77.0-126*		*11/22/2020 11:10*	WG1580365
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/22/2020 11:10*	WG1580365

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.5		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.123	B J	0.0434	0.131	1	11/24/2020 17:03	WG1582016
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*77.0-120*		*11/24/2020 17:03*	WG1582016

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0622	0.0852	1	11/21/2020 20:23	WG1580412
Acrylonitrile	U		0.00615	0.0213	1	11/21/2020 20:23	WG1580412
Benzene	U		0.000796	0.00170	1	11/21/2020 20:23	WG1580412
Bromobenzene	U		0.00153	0.0213	1	11/21/2020 20:23	WG1580412
Bromodichloromethane	U		0.00124	0.00426	1	11/21/2020 20:23	WG1580412
Bromoform	U		0.00199	0.0426	1	11/21/2020 20:23	WG1580412
Bromomethane	U		0.00336	0.0213	1	11/21/2020 20:23	WG1580412
n-Butylbenzene	U		0.00895	0.0213	1	11/21/2020 20:23	WG1580412
sec-Butylbenzene	U		0.00491	0.0213	1	11/21/2020 20:23	WG1580412
tert-Butylbenzene	U		0.00332	0.00852	1	11/21/2020 20:23	WG1580412
Carbon tetrachloride	U		0.00153	0.00852	1	11/21/2020 20:23	WG1580412
Chlorobenzene	U		0.000358	0.00426	1	11/21/2020 20:23	WG1580412
Chlorodibromomethane	U		0.00104	0.00426	1	11/21/2020 20:23	WG1580412
Chloroethane	U		0.00290	0.00852	1	11/21/2020 20:23	WG1580412
Chloroform	U		0.00176	0.00426	1	11/21/2020 20:23	WG1580412
Chloromethane	U		0.00741	0.0213	1	11/21/2020 20:23	WG1580412
2-Chlorotoluene	U		0.00147	0.00426	1	11/21/2020 20:23	WG1580412
4-Chlorotoluene	U		0.000767	0.00852	1	11/21/2020 20:23	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00665	0.0426	1	11/21/2020 20:23	WG1580412
1,2-Dibromoethane	U		0.00110	0.00426	1	11/21/2020 20:23	WG1580412
Dibromomethane	U		0.00128	0.00852	1	11/21/2020 20:23	WG1580412
1,2-Dichlorobenzene	U		0.000724	0.00852	1	11/21/2020 20:23	WG1580412
1,3-Dichlorobenzene	U		0.00102	0.00852	1	11/21/2020 20:23	WG1580412
1,4-Dichlorobenzene	U		0.00119	0.00852	1	11/21/2020 20:23	WG1580412
Dichlorodifluoromethane	U		0.00274	0.00426	1	11/21/2020 20:23	WG1580412
1,1-Dichloroethane	U		0.000837	0.00426	1	11/21/2020 20:23	WG1580412
1,2-Dichloroethane	U		0.00111	0.00426	1	11/21/2020 20:23	WG1580412
1,1-Dichloroethene	U		0.00103	0.00426	1	11/21/2020 20:23	WG1580412
cis-1,2-Dichloroethene	U		0.00125	0.00426	1	11/21/2020 20:23	WG1580412
trans-1,2-Dichloroethene	U		0.00177	0.00852	1	11/21/2020 20:23	WG1580412
1,2-Dichloropropane	U		0.00242	0.00852	1	11/21/2020 20:23	WG1580412
1,1-Dichloropropene	U		0.00138	0.00426	1	11/21/2020 20:23	WG1580412
1,3-Dichloropropane	U		0.000854	0.00852	1	11/21/2020 20:23	WG1580412
cis-1,3-Dichloropropene	U		0.00129	0.00426	1	11/21/2020 20:23	WG1580412
trans-1,3-Dichloropropene	U		0.00194	0.00852	1	11/21/2020 20:23	WG1580412
2,2-Dichloropropane	U		0.00235	0.00426	1	11/21/2020 20:23	WG1580412
Di-isopropyl ether	U		0.000699	0.00170	1	11/21/2020 20:23	WG1580412
Ethylbenzene	U		0.00126	0.00426	1	11/21/2020 20:23	WG1580412
Hexachloro-1,3-butadiene	U		0.0102	0.0426	1	11/21/2020 20:23	WG1580412
Isopropylbenzene	U		0.000724	0.00426	1	11/21/2020 20:23	WG1580412
p-Isopropyltoluene	U		0.00434	0.00852	1	11/21/2020 20:23	WG1580412
2-Butanone (MEK)	U		0.108	0.170	1	11/21/2020 20:23	WG1580412
Methylene Chloride	U		0.0113	0.0426	1	11/21/2020 20:23	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00388	0.0426	1	11/21/2020 20:23	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000596	0.00170	1	11/21/2020 20:23	WG1580412
Naphthalene	U		0.00832	0.0213	1	11/21/2020 20:23	WG1580412
n-Propylbenzene	U		0.00162	0.00852	1	11/21/2020 20:23	WG1580412
Styrene	U		0.000390	0.0213	1	11/21/2020 20:23	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00162	0.00426	1	11/21/2020 20:23	WG1580412
1,1,2,2-Tetrachloroethane	U		0.00118	0.00426	1	11/21/2020 20:23	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.00128	0.00426	1	11/21/2020 20:23	WG1580412
Tetrachloroethene	U		0.00153	0.00426	1	11/21/2020 20:23	WG1580412
Toluene	U		0.00222	0.00852	1	11/21/2020 20:23	WG1580412
1,2,3-Trichlorobenzene	U		0.0125	0.0213	1	11/21/2020 20:23	WG1580412
1,2,4-Trichlorobenzene	U		0.00750	0.0213	1	11/21/2020 20:23	WG1580412
1,1,1-Trichloroethane	U		0.00157	0.00426	1	11/21/2020 20:23	WG1580412
1,1,2-Trichloroethane	U		0.00102	0.00426	1	11/21/2020 20:23	WG1580412
Trichloroethene	U		0.000995	0.00170	1	11/21/2020 20:23	WG1580412
Trichlorofluoromethane	U		0.00141	0.00426	1	11/21/2020 20:23	WG1580412
1,2,3-Trichloropropane	U		0.00276	0.0213	1	11/21/2020 20:23	WG1580412
1,2,4-Trimethylbenzene	U		0.00269	0.00852	1	11/21/2020 20:23	WG1580412
1,2,3-Trimethylbenzene	U		0.00269	0.00852	1	11/21/2020 20:23	WG1580412
1,3,5-Trimethylbenzene	U		0.00341	0.00852	1	11/21/2020 20:23	WG1580412
Vinyl chloride	U		0.00198	0.00426	1	11/21/2020 20:23	WG1580412
Xylenes, Total	U		0.00150	0.0111	1	11/21/2020 20:23	WG1580412
(S) Toluene-d8	*94.9*			*75.0-131*		*11/21/2020 20:23*	WG1580412
(S) 4-Bromofluorobenzene	*91.4*			*67.0-138*		*11/21/2020 20:23*	WG1580412
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/21/2020 20:23*	WG1580412

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPHG C5 - C12	U		30.4	100	1	11/22/2020 16:10	WG1580561
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*		*11/22/2020 16:10*	WG1580561

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	11/22/2020 11:31	WG1580365
Acrolein	U		2.54	50.0	1	11/22/2020 11:31	WG1580365
Acrylonitrile	U		0.671	10.0	1	11/22/2020 11:31	WG1580365
Benzene	U		0.0941	1.00	1	11/22/2020 11:31	WG1580365
Bromobenzene	U		0.118	1.00	1	11/22/2020 11:31	WG1580365
Bromodichloromethane	U		0.136	1.00	1	11/22/2020 11:31	WG1580365
Bromoform	U		0.129	1.00	1	11/22/2020 11:31	WG1580365
Bromomethane	U		0.605	5.00	1	11/22/2020 11:31	WG1580365
n-Butylbenzene	U		0.157	1.00	1	11/22/2020 11:31	WG1580365
sec-Butylbenzene	U		0.125	1.00	1	11/22/2020 11:31	WG1580365
tert-Butylbenzene	U		0.127	1.00	1	11/22/2020 11:31	WG1580365
Carbon tetrachloride	U		0.128	1.00	1	11/22/2020 11:31	WG1580365
Chlorobenzene	U		0.116	1.00	1	11/22/2020 11:31	WG1580365
Chlorodibromomethane	U		0.140	1.00	1	11/22/2020 11:31	WG1580365
Chloroethane	U		0.192	5.00	1	11/22/2020 11:31	WG1580365
Chloroform	7.69		0.111	5.00	1	11/22/2020 11:31	WG1580365
Chloromethane	U		0.960	2.50	1	11/22/2020 11:31	WG1580365
2-Chlorotoluene	U		0.106	1.00	1	11/22/2020 11:31	WG1580365
4-Chlorotoluene	U		0.114	1.00	1	11/22/2020 11:31	WG1580365
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	11/22/2020 11:31	WG1580365
1,2-Dibromoethane	U		0.126	1.00	1	11/22/2020 11:31	WG1580365
Dibromomethane	U		0.122	1.00	1	11/22/2020 11:31	WG1580365
1,2-Dichlorobenzene	U		0.107	1.00	1	11/22/2020 11:31	WG1580365
1,3-Dichlorobenzene	U		0.110	1.00	1	11/22/2020 11:31	WG1580365
1,4-Dichlorobenzene	U		0.120	1.00	1	11/22/2020 11:31	WG1580365
Dichlorodifluoromethane	U		0.374	5.00	1	11/22/2020 11:31	WG1580365
1,1-Dichloroethane	U		0.100	1.00	1	11/22/2020 11:31	WG1580365
1,2-Dichloroethane	U		0.0819	1.00	1	11/22/2020 11:31	WG1580365
1,1-Dichloroethene	U		0.188	1.00	1	11/22/2020 11:31	WG1580365
cis-1,2-Dichloroethene	U		0.126	1.00	1	11/22/2020 11:31	WG1580365
trans-1,2-Dichloroethene	U		0.149	1.00	1	11/22/2020 11:31	WG1580365
1,2-Dichloropropane	U		0.149	1.00	1	11/22/2020 11:31	WG1580365
1,1-Dichloropropene	U		0.142	1.00	1	11/22/2020 11:31	WG1580365
1,3-Dichloropropane	U		0.110	1.00	1	11/22/2020 11:31	WG1580365
cis-1,3-Dichloropropene	U		0.111	1.00	1	11/22/2020 11:31	WG1580365
trans-1,3-Dichloropropene	U		0.118	1.00	1	11/22/2020 11:31	WG1580365
2,2-Dichloropropane	U		0.161	1.00	1	11/22/2020 11:31	WG1580365
Di-isopropyl ether	U		0.105	1.00	1	11/22/2020 11:31	WG1580365
Ethylbenzene	U		0.137	1.00	1	11/22/2020 11:31	WG1580365
Hexachloro-1,3-butadiene	U		0.337	1.00	1	11/22/2020 11:31	WG1580365
Isopropylbenzene	U		0.105	1.00	1	11/22/2020 11:31	WG1580365
p-Isopropyltoluene	U		0.120	1.00	1	11/22/2020 11:31	WG1580365
2-Butanone (MEK)	U		1.19	10.0	1	11/22/2020 11:31	WG1580365
Methylene Chloride	U		0.430	5.00	1	11/22/2020 11:31	WG1580365
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	11/22/2020 11:31	WG1580365
Methyl tert-butyl ether	U		0.101	1.00	1	11/22/2020 11:31	WG1580365
Naphthalene	U		1.00	5.00	1	11/22/2020 11:31	WG1580365
n-Propylbenzene	U		0.0993	1.00	1	11/22/2020 11:31	WG1580365
Styrene	U		0.118	1.00	1	11/22/2020 11:31	WG1580365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	11/22/2020 11:31	WG1580365
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	11/22/2020 11:31	WG1580365
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	11/22/2020 11:31	WG1580365
Tetrachloroethene	U		0.300	1.00	1	11/22/2020 11:31	WG1580365
Toluene	U		0.278	1.00	1	11/22/2020 11:31	WG1580365
1,2,3-Trichlorobenzene	U		0.230	1.00	1	11/22/2020 11:31	WG1580365
1,2,4-Trichlorobenzene	U		0.481	1.00	1	11/22/2020 11:31	WG1580365
1,1,1-Trichloroethane	U		0.149	1.00	1	11/22/2020 11:31	WG1580365
1,1,2-Trichloroethane	U		0.158	1.00	1	11/22/2020 11:31	WG1580365
Trichloroethene	U		0.190	1.00	1	11/22/2020 11:31	WG1580365
Trichlorofluoromethane	11.2		0.160	5.00	1	11/22/2020 11:31	WG1580365
1,2,3-Trichloropropane	U		0.237	2.50	1	11/22/2020 11:31	WG1580365
1,2,4-Trimethylbenzene	U		0.322	1.00	1	11/22/2020 11:31	WG1580365
1,2,3-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 11:31	WG1580365
1,3,5-Trimethylbenzene	U		0.104	1.00	1	11/22/2020 11:31	WG1580365
Vinyl chloride	U		0.234	1.00	1	11/22/2020 11:31	WG1580365
Xylenes, Total	U		0.174	3.00	1	11/22/2020 11:31	WG1580365
(S) Toluene-d8	*105*			*80.0-120*		*11/22/2020 11:31*	WG1580365
(S) 4-Bromofluorobenzene	*97.6*			*77.0-126*		*11/22/2020 11:31*	WG1580365
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*11/22/2020 11:31*	WG1580365

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	11/21/2020 06:35	WG1579969

Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHG C5 - C12	0.0607	B J	0.0378	0.114	1	11/24/2020 17:26	WG1582016
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*11/24/2020 17:26*	WG1582016

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0466	0.0639	1	11/21/2020 20:42	WG1580412
Acrylonitrile	U		0.00461	0.0160	1	11/21/2020 20:42	WG1580412
Benzene	U		0.000596	0.00128	1	11/21/2020 20:42	WG1580412
Bromobenzene	U		0.00115	0.0160	1	11/21/2020 20:42	WG1580412
Bromodichloromethane	U		0.000926	0.00319	1	11/21/2020 20:42	WG1580412
Bromoform	U		0.00149	0.0319	1	11/21/2020 20:42	WG1580412
Bromomethane	U		0.00252	0.0160	1	11/21/2020 20:42	WG1580412
n-Butylbenzene	U		0.00671	0.0160	1	11/21/2020 20:42	WG1580412
sec-Butylbenzene	U		0.00368	0.0160	1	11/21/2020 20:42	WG1580412
tert-Butylbenzene	U		0.00249	0.00639	1	11/21/2020 20:42	WG1580412
Carbon tetrachloride	U		0.00115	0.00639	1	11/21/2020 20:42	WG1580412
Chlorobenzene	U		0.000268	0.00319	1	11/21/2020 20:42	WG1580412
Chlorodibromomethane	U		0.000782	0.00319	1	11/21/2020 20:42	WG1580412
Chloroethane	U		0.00217	0.00639	1	11/21/2020 20:42	WG1580412
Chloroform	U		0.00132	0.00319	1	11/21/2020 20:42	WG1580412
Chloromethane	U		0.00556	0.0160	1	11/21/2020 20:42	WG1580412
2-Chlorotoluene	U		0.00110	0.00319	1	11/21/2020 20:42	WG1580412
4-Chlorotoluene	U		0.000575	0.00639	1	11/21/2020 20:42	WG1580412
1,2-Dibromo-3-Chloropropane	U		0.00498	0.0319	1	11/21/2020 20:42	WG1580412
1,2-Dibromoethane	U		0.000828	0.00319	1	11/21/2020 20:42	WG1580412
Dibromomethane	U		0.000958	0.00639	1	11/21/2020 20:42	WG1580412
1,2-Dichlorobenzene	U		0.000543	0.00639	1	11/21/2020 20:42	WG1580412
1,3-Dichlorobenzene	U		0.000766	0.00639	1	11/21/2020 20:42	WG1580412
1,4-Dichlorobenzene	U		0.000894	0.00639	1	11/21/2020 20:42	WG1580412
Dichlorodifluoromethane	U		0.00206	0.00319	1	11/21/2020 20:42	WG1580412
1,1-Dichloroethane	U		0.000627	0.00319	1	11/21/2020 20:42	WG1580412
1,2-Dichloroethane	U		0.000829	0.00319	1	11/21/2020 20:42	WG1580412
1,1-Dichloroethene	U		0.000774	0.00319	1	11/21/2020 20:42	WG1580412
cis-1,2-Dichloroethene	U		0.000937	0.00319	1	11/21/2020 20:42	WG1580412
trans-1,2-Dichloroethene	U		0.00133	0.00639	1	11/21/2020 20:42	WG1580412
1,2-Dichloropropane	U		0.00181	0.00639	1	11/21/2020 20:42	WG1580412
1,1-Dichloropropene	U		0.00103	0.00319	1	11/21/2020 20:42	WG1580412
1,3-Dichloropropane	U		0.000640	0.00639	1	11/21/2020 20:42	WG1580412
cis-1,3-Dichloropropene	U		0.000967	0.00319	1	11/21/2020 20:42	WG1580412
trans-1,3-Dichloropropene	U		0.00146	0.00639	1	11/21/2020 20:42	WG1580412
2,2-Dichloropropane	U		0.00176	0.00319	1	11/21/2020 20:42	WG1580412
Di-isopropyl ether	U		0.000524	0.00128	1	11/21/2020 20:42	WG1580412
Ethylbenzene	U		0.000941	0.00319	1	11/21/2020 20:42	WG1580412
Hexachloro-1,3-butadiene	U		0.00766	0.0319	1	11/21/2020 20:42	WG1580412
Isopropylbenzene	U		0.000543	0.00319	1	11/21/2020 20:42	WG1580412
p-Isopropyltoluene	U		0.00326	0.00639	1	11/21/2020 20:42	WG1580412
2-Butanone (MEK)	U		0.0811	0.128	1	11/21/2020 20:42	WG1580412
Methylene Chloride	U		0.00848	0.0319	1	11/21/2020 20:42	WG1580412
4-Methyl-2-pentanone (MIBK)	U		0.00291	0.0319	1	11/21/2020 20:42	WG1580412

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000447	0.00128	1	11/21/2020 20:42	WG1580412
Naphthalene	U		0.00623	0.0160	1	11/21/2020 20:42	WG1580412
n-Propylbenzene	U		0.00121	0.00639	1	11/21/2020 20:42	WG1580412
Styrene	U		0.000292	0.0160	1	11/21/2020 20:42	WG1580412
1,1,1,2-Tetrachloroethane	U		0.00121	0.00319	1	11/21/2020 20:42	WG1580412
1,1,2,2-Tetrachloroethane	U		0.000888	0.00319	1	11/21/2020 20:42	WG1580412
1,1,2-Trichlorotrifluoroethane	U		0.000963	0.00319	1	11/21/2020 20:42	WG1580412
Tetrachloroethene	U		0.00114	0.00319	1	11/21/2020 20:42	WG1580412
Toluene	U		0.00166	0.00639	1	11/21/2020 20:42	WG1580412
1,2,3-Trichlorobenzene	U		0.00936	0.0160	1	11/21/2020 20:42	WG1580412
1,2,4-Trichlorobenzene	U		0.00562	0.0160	1	11/21/2020 20:42	WG1580412
1,1,1-Trichloroethane	U		0.00118	0.00319	1	11/21/2020 20:42	WG1580412
1,1,2-Trichloroethane	U		0.000762	0.00319	1	11/21/2020 20:42	WG1580412
Trichloroethene	U		0.000746	0.00128	1	11/21/2020 20:42	WG1580412
Trichlorofluoromethane	U		0.00106	0.00319	1	11/21/2020 20:42	WG1580412
1,2,3-Trichloropropane	U		0.00207	0.0160	1	11/21/2020 20:42	WG1580412
1,2,4-Trimethylbenzene	U		0.00202	0.00639	1	11/21/2020 20:42	WG1580412
1,2,3-Trimethylbenzene	U		0.00202	0.00639	1	11/21/2020 20:42	WG1580412
1,3,5-Trimethylbenzene	U		0.00255	0.00639	1	11/21/2020 20:42	WG1580412
Vinyl chloride	U		0.00148	0.00319	1	11/21/2020 20:42	WG1580412
Xylenes, Total	U		0.00112	0.00830	1	11/21/2020 20:42	WG1580412
(S) Toluene-d8	*93.6*			*75.0-131*		*11/21/2020 20:42*	WG1580412
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*		*11/21/2020 20:42*	WG1580412
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*11/21/2020 20:42*	WG1580412

Method Blank (MB)

(MB) R3595800-1 11/21/20 01:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1286067-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1286067-02 11/21/20 01:53 • (DUP) R3595800-3 11/21/20 01:53

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.4	82.8	1	0.741		10

Laboratory Control Sample (LCS)

(LCS) R3595800-2 11/21/20 01:53

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3596374-1 11/21/20 06:35

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1286255-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1286255-13 11/21/20 06:35 • (DUP) R3596374-3 11/21/20 06:35

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.2	87.9	1	1.41		10

Laboratory Control Sample (LCS)

(LCS) R3596374-2 11/21/20 06:35

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3596210-1 11/22/20 00:35

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1286255-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1286255-01 11/22/20 00:35 • (DUP) R3596210-3 11/22/20 00:35

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.9	85.7	1	0.222		10

Laboratory Control Sample (LCS)

(LCS) R3596210-2 11/22/20 00:35

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3596480-1 11/23/20 08:22

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1286140-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1286140-02 11/23/20 08:22 • (DUP) R3596480-3 11/23/20 08:22

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	82.6	83.3	1	0.819		10

Laboratory Control Sample (LCS)

(LCS) R3596480-2 11/23/20 08:22

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3596469-1 11/23/20 08:10

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1286255-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1286255-05 11/23/20 08:10 • (DUP) R3596469-3 11/23/20 08:10

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.2	84.6	1	0.648		10

Laboratory Control Sample (LCS)

(LCS) R3596469-2 11/23/20 08:10

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3596320-1 11/23/20 07:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3596320-2 11/23/20 07:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.475	95.0	80.0-120	

L1286067-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286067-02 11/23/20 07:59 • (MS) R3596320-3 11/23/20 08:02 • (MSD) R3596320-4 11/23/20 08:04

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.599	U	0.554	0.548	92.5	91.3	1	75.0-125			1.22	20

Method Blank (MB)

(MB) R3596051-1 11/21/20 17:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.166	3.00
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Beryllium	U		0.138	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Cobalt	U		0.0463	1.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Molybdenum	U		0.101	2.50
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Thallium	U		0.0650	2.00
Vanadium	U		0.187	2.50
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3596051-2 11/21/20 18:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	106	106	80.0-120	
Arsenic	100	92.9	92.9	80.0-120	
Barium	100	95.5	95.5	80.0-120	
Beryllium	100	95.4	95.4	80.0-120	
Cadmium	100	99.6	99.6	80.0-120	
Chromium	100	96.9	96.9	80.0-120	
Cobalt	100	97.7	97.7	80.0-120	
Copper	100	97.1	97.1	80.0-120	
Lead	100	95.8	95.8	80.0-120	
Molybdenum	100	100	100	80.0-120	
Nickel	100	98.6	98.6	80.0-120	
Selenium	100	107	107	80.0-120	
Silver	20.0	19.2	95.8	80.0-120	
Thallium	100	94.7	94.7	80.0-120	
Vanadium	100	95.8	95.8	80.0-120	
Zinc	100	94.5	94.5	80.0-120	

L1286255-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286255-02 11/21/20 18:06 • (MS) R3596051-5 11/21/20 18:16 • (MSD) R3596051-6 11/21/20 18:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	22.9	U	46.7	44.7	40.9	39.1	5	75.0-125	J6	J6	4.35	20
Arsenic	22.9	1.53	103	97.7	88.9	84.1	5	75.0-125			5.47	20
Barium	22.9	113	220	205	93.9	80.3	5	75.0-125			7.30	20
Beryllium	22.9	0.457	102	95.7	89.0	83.3	5	75.0-125			6.56	20
Cadmium	22.9	0.302	110	104	95.7	90.8	5	75.0-125			5.20	20
Chromium	22.9	40.3	143	138	90.0	85.8	5	75.0-125			3.36	20
Cobalt	22.9	15.5	120	116	91.7	88.2	5	75.0-125			3.36	20
Copper	22.9	20.8	125	120	91.2	86.4	5	75.0-125			4.53	20
Lead	22.9	3.58	110	107	93.0	90.6	5	75.0-125			2.55	20
Molybdenum	22.9	0.496	106	102	92.5	89.1	5	75.0-125			3.78	20
Nickel	22.9	39.2	141	137	89.2	85.7	5	75.0-125			2.90	20
Selenium	22.9	0.437	119	111	104	96.6	5	75.0-125			6.98	20
Silver	4.57	U	21.0	20.2	91.8	88.5	5	75.0-125			3.65	20
Thallium	22.9	0.186	106	101	92.4	88.0	5	75.0-125			4.80	20
Vanadium	22.9	56.3	160	149	91.1	80.9	5	75.0-125			7.49	20
Zinc	22.9	54.9	159	150	91.3	83.0	5	75.0-125			6.17	20

Method Blank (MB)

(MB) R3596780-2 11/22/20 07:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TPHG C5 - C12	33.2	J	30.4	100
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3596780-1 11/22/20 07:13

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5500	4820	87.6	71.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*78.0-120*	

Method Blank (MB)

(MB) R3596992-2 11/23/20 01:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	0.0775	J	0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3596992-1 11/23/20 00:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	6.08	111	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

Method Blank (MB)

(MB) R3597141-2 11/24/20 15:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	0.0960	J	0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3597141-1 11/24/20 11:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	6.23	113	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

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

Method Blank (MB)

(MB) R3596571-1 11/21/20 21:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

Method Blank (MB)

(MB) R3596571-1 11/21/20 21:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*91.5*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*86.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3596571-2 11/21/20 22:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	34.4	138	19.0-160	
Acrolein	25.0	29.4	118	10.0-160	
Acrylonitrile	25.0	25.5	102	55.0-149	
Benzene	5.00	5.23	105	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R3596571-2 11/21/20 22:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	5.00	5.92	118	73.0-121	
Bromodichloromethane	5.00	4.79	95.8	75.0-120	
Bromoform	5.00	5.63	113	68.0-132	
Bromomethane	5.00	4.52	90.4	10.0-160	
n-Butylbenzene	5.00	5.81	116	73.0-125	
sec-Butylbenzene	5.00	5.57	111	75.0-125	
tert-Butylbenzene	5.00	5.70	114	76.0-124	
Carbon tetrachloride	5.00	4.75	95.0	68.0-126	
Chlorobenzene	5.00	5.32	106	80.0-121	
Chlorodibromomethane	5.00	5.38	108	77.0-125	
Chloroethane	5.00	4.47	89.4	47.0-150	
Chloroform	5.00	4.87	97.4	73.0-120	
Chloromethane	5.00	5.29	106	41.0-142	
2-Chlorotoluene	5.00	6.22	124	76.0-123	J4
4-Chlorotoluene	5.00	5.70	114	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.94	98.8	58.0-134	
1,2-Dibromoethane	5.00	5.07	101	80.0-122	
Dibromomethane	5.00	4.44	88.8	80.0-120	
1,2-Dichlorobenzene	5.00	5.43	109	79.0-121	
1,3-Dichlorobenzene	5.00	5.27	105	79.0-120	
1,4-Dichlorobenzene	5.00	5.49	110	79.0-120	
Dichlorodifluoromethane	5.00	5.09	102	51.0-149	
1,1-Dichloroethane	5.00	5.11	102	70.0-126	
1,2-Dichloroethane	5.00	4.49	89.8	70.0-128	
1,1-Dichloroethene	5.00	4.80	96.0	71.0-124	
cis-1,2-Dichloroethene	5.00	5.03	101	73.0-120	
trans-1,2-Dichloroethene	5.00	4.92	98.4	73.0-120	
1,2-Dichloropropane	5.00	5.47	109	77.0-125	
1,1-Dichloropropene	5.00	5.07	101	74.0-126	
1,3-Dichloropropane	5.00	5.45	109	80.0-120	
cis-1,3-Dichloropropene	5.00	5.12	102	80.0-123	
trans-1,3-Dichloropropene	5.00	5.31	106	78.0-124	
2,2-Dichloropropane	5.00	5.06	101	58.0-130	
Di-isopropyl ether	5.00	4.73	94.6	58.0-138	
Ethylbenzene	5.00	5.54	111	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.42	108	54.0-138	
Isopropylbenzene	5.00	5.24	105	76.0-127	
p-Isopropyltoluene	5.00	5.75	115	76.0-125	
2-Butanone (MEK)	25.0	24.6	98.4	44.0-160	
Methylene Chloride	5.00	5.11	102	67.0-120	

Laboratory Control Sample (LCS)

(LCS) R3596571-2 11/21/20 22:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	25.0	25.8	103	68.0-142	
Methyl tert-butyl ether	5.00	4.53	90.6	68.0-125	
Naphthalene	5.00	5.33	107	54.0-135	
n-Propylbenzene	5.00	6.30	126	77.0-124	J4
Styrene	5.00	5.06	101	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.14	103	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	6.72	134	65.0-130	J4
Tetrachloroethene	5.00	5.55	111	72.0-132	
Toluene	5.00	5.27	105	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.22	84.4	69.0-132	
1,2,3-Trichlorobenzene	5.00	5.84	117	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.46	109	57.0-137	
1,1,1-Trichloroethane	5.00	4.89	97.8	73.0-124	
1,1,2-Trichloroethane	5.00	5.29	106	80.0-120	
Trichloroethene	5.00	4.98	99.6	78.0-124	
Trichlorofluoromethane	5.00	4.52	90.4	59.0-147	
1,2,3-Trichloropropane	5.00	5.19	104	73.0-130	
1,2,3-Trimethylbenzene	5.00	5.27	105	77.0-120	
1,2,4-Trimethylbenzene	5.00	5.21	104	76.0-121	
1,3,5-Trimethylbenzene	5.00	5.92	118	76.0-122	
Vinyl chloride	5.00	5.07	101	67.0-131	
Xylenes, Total	15.0	16.3	109	79.0-123	
(S) Toluene-d8			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*92.6*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*87.9*	*70.0-130*	

Method Blank (MB)

(MB) R3596632-2 11/22/20 04:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

Method Blank (MB)

(MB) R3596632-2 11/22/20 04:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,3-Trimethylbenzene	U		0.104	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*100*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*121*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3596632-1 11/22/20 04:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	24.2	96.8	19.0-160	
Acrolein	25.0	17.2	68.8	10.0-160	
Acrylonitrile	25.0	20.2	80.8	55.0-149	
Benzene	5.00	4.82	96.4	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R3596632-1 11/22/20 04:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	5.00	5.70	114	73.0-121	
Bromodichloromethane	5.00	5.72	114	75.0-120	
Bromoform	5.00	4.41	88.2	68.0-132	
Bromomethane	5.00	6.33	127	10.0-160	
n-Butylbenzene	5.00	5.47	109	73.0-125	
sec-Butylbenzene	5.00	5.82	116	75.0-125	
tert-Butylbenzene	5.00	5.85	117	76.0-124	
Carbon tetrachloride	5.00	5.27	105	68.0-126	
Chlorobenzene	5.00	4.59	91.8	80.0-121	
Chlorodibromomethane	5.00	4.81	96.2	77.0-125	
Chloroethane	5.00	6.01	120	47.0-150	
Chloroform	5.00	5.96	119	73.0-120	
Chloromethane	5.00	4.69	93.8	41.0-142	
2-Chlorotoluene	5.00	5.88	118	76.0-123	
4-Chlorotoluene	5.00	5.89	118	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	3.60	72.0	58.0-134	
1,2-Dibromoethane	5.00	4.65	93.0	80.0-122	
Dibromomethane	5.00	5.15	103	80.0-120	
1,2-Dichlorobenzene	5.00	4.60	92.0	79.0-121	
1,3-Dichlorobenzene	5.00	4.91	98.2	79.0-120	
1,4-Dichlorobenzene	5.00	4.64	92.8	79.0-120	
Dichlorodifluoromethane	5.00	5.35	107	51.0-149	
1,1-Dichloroethane	5.00	4.84	96.8	70.0-126	
1,2-Dichloroethane	5.00	5.62	112	70.0-128	
1,1-Dichloroethene	5.00	4.23	84.6	71.0-124	
cis-1,2-Dichloroethene	5.00	5.08	102	73.0-120	
trans-1,2-Dichloroethene	5.00	5.28	106	73.0-120	
1,2-Dichloropropane	5.00	4.23	84.6	77.0-125	
1,1-Dichloropropene	5.00	5.46	109	74.0-126	
1,3-Dichloropropane	5.00	4.77	95.4	80.0-120	
cis-1,3-Dichloropropene	5.00	5.08	102	80.0-123	
trans-1,3-Dichloropropene	5.00	4.88	97.6	78.0-124	
2,2-Dichloropropane	5.00	5.42	108	58.0-130	
Di-isopropyl ether	5.00	4.30	86.0	58.0-138	
Ethylbenzene	5.00	4.52	90.4	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.90	118	54.0-138	
Isopropylbenzene	5.00	4.82	96.4	76.0-127	
p-Isopropyltoluene	5.00	5.56	111	76.0-125	
2-Butanone (MEK)	25.0	22.3	89.2	44.0-160	
Methylene Chloride	5.00	4.47	89.4	67.0-120	

Laboratory Control Sample (LCS)

(LCS) R3596632-1 11/22/20 04:08

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	25.0	22.8	91.2	68.0-142	
Methyl tert-butyl ether	5.00	5.86	117	68.0-125	
Naphthalene	5.00	2.94	58.8	54.0-135	
n-Propylbenzene	5.00	5.57	111	77.0-124	
Styrene	5.00	4.08	81.6	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	4.83	96.6	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.25	105	65.0-130	
Tetrachloroethene	5.00	4.68	93.6	72.0-132	
Toluene	5.00	4.62	92.4	79.0-120	
1,1,2-Trichlorotrifluoroethane	5.00	4.05	81.0	69.0-132	
1,2,3-Trichlorobenzene	5.00	3.42	68.4	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.03	80.6	57.0-137	
1,1,1-Trichloroethane	5.00	6.00	120	73.0-124	
1,1,2-Trichloroethane	5.00	4.63	92.6	80.0-120	
Trichloroethene	5.00	4.74	94.8	78.0-124	
Trichlorofluoromethane	5.00	6.54	131	59.0-147	
1,2,3-Trichloropropane	5.00	6.27	125	73.0-130	
1,2,3-Trimethylbenzene	5.00	5.98	120	77.0-120	
1,2,4-Trimethylbenzene	5.00	5.79	116	76.0-121	
1,3,5-Trimethylbenzene	5.00	6.03	121	76.0-122	
Vinyl chloride	5.00	4.96	99.2	67.0-131	
Xylenes, Total	15.0	13.6	90.7	79.0-123	
(S) Toluene-d8			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*97.6*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*127*	*70.0-130*	

Method Blank (MB)

(MB) R3596302-2 11/21/20 13:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00250
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R3596302-2 11/21/20 13:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*98.3*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3596302-1 11/21/20 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.227	36.3	10.0-160	
Acrylonitrile	0.625	0.523	83.7	45.0-153	
Benzene	0.125	0.120	96.0	70.0-123	
Bromobenzene	0.125	0.133	106	73.0-121	
Bromodichloromethane	0.125	0.130	104	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3596302-1 11/21/20 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.111	88.8	64.0-132	
Bromomethane	0.125	0.117	93.6	56.0-147	
n-Butylbenzene	0.125	0.121	96.8	68.0-135	
sec-Butylbenzene	0.125	0.133	106	74.0-130	
tert-Butylbenzene	0.125	0.148	118	75.0-127	
Carbon tetrachloride	0.125	0.127	102	66.0-128	
Chlorobenzene	0.125	0.117	93.6	76.0-128	
Chlorodibromomethane	0.125	0.123	98.4	74.0-127	
Chloroethane	0.125	0.120	96.0	61.0-134	
Chloroform	0.125	0.114	91.2	72.0-123	
Chloromethane	0.125	0.107	85.6	51.0-138	
2-Chlorotoluene	0.125	0.124	99.2	75.0-124	
4-Chlorotoluene	0.125	0.137	110	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.105	84.0	59.0-130	
1,2-Dibromoethane	0.125	0.119	95.2	74.0-128	
Dibromomethane	0.125	0.124	99.2	75.0-122	
1,2-Dichlorobenzene	0.125	0.110	88.0	76.0-124	
1,3-Dichlorobenzene	0.125	0.119	95.2	76.0-125	
1,4-Dichlorobenzene	0.125	0.117	93.6	77.0-121	
Dichlorodifluoromethane	0.125	0.147	118	43.0-156	
1,1-Dichloroethane	0.125	0.108	86.4	70.0-127	
1,2-Dichloroethane	0.125	0.120	96.0	65.0-131	
1,1-Dichloroethene	0.125	0.121	96.8	65.0-131	
cis-1,2-Dichloroethene	0.125	0.105	84.0	73.0-125	
trans-1,2-Dichloroethene	0.125	0.103	82.4	71.0-125	
1,2-Dichloropropane	0.125	0.131	105	74.0-125	
1,1-Dichloropropene	0.125	0.133	106	73.0-125	
1,3-Dichloropropane	0.125	0.123	98.4	80.0-125	
cis-1,3-Dichloropropene	0.125	0.138	110	76.0-127	
trans-1,3-Dichloropropene	0.125	0.129	103	73.0-127	
2,2-Dichloropropane	0.125	0.117	93.6	59.0-135	
Di-isopropyl ether	0.125	0.106	84.8	60.0-136	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.115	92.0	57.0-150	
Isopropylbenzene	0.125	0.111	88.8	72.0-127	
p-Isopropyltoluene	0.125	0.129	103	72.0-133	
2-Butanone (MEK)	0.625	0.775	124	30.0-160	
Methylene Chloride	0.125	0.105	84.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.584	93.4	56.0-143	
Methyl tert-butyl ether	0.125	0.102	81.6	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3596302-1 11/21/20 12:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.0908	72.6	59.0-130	
n-Propylbenzene	0.125	0.135	108	74.0-126	
Styrene	0.125	0.113	90.4	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.104	83.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.111	88.8	68.0-128	
Tetrachloroethene	0.125	0.124	99.2	70.0-136	
Toluene	0.125	0.118	94.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.124	99.2	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0865	69.2	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0880	70.4	62.0-137	
1,1,1-Trichloroethane	0.125	0.121	96.8	69.0-126	
1,1,2-Trichloroethane	0.125	0.119	95.2	78.0-123	
Trichloroethene	0.125	0.130	104	76.0-126	
Trichlorofluoromethane	0.125	0.138	110	61.0-142	
1,2,3-Trichloropropane	0.125	0.136	109	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.117	93.6	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.122	97.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.137	110	73.0-127	
Vinyl chloride	0.125	0.124	99.2	63.0-134	
Xylenes, Total	0.375	0.326	86.9	72.0-127	
(S) Toluene-d8			*97.0*	*75.0-131*	
(S) 4-Bromofluorobenzene			*96.1*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*105*	*70.0-130*	

Method Blank (MB)

(MB) R3596162-1 11/22/20 11:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*102*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3596162-2 11/22/20 11:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	21.7	86.8	50.0-150	
C12-C22 Hydrocarbons	25.0	20.7	82.8	50.0-150	
(S) o-Terphenyl			*91.1*	*18.0-148*	

L1285426-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285426-19 11/22/20 11:52 • (MS) R3596162-3 11/22/20 12:06 • (MSD) R3596162-4 11/22/20 12:21

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	30.1	U	25.2	25.6	83.6	85.2	1	50.0-150			1.90	20
C12-C22 Hydrocarbons	30.1	U	24.3	23.8	80.8	79.2	1	50.0-150			2.00	20
(S) o-Terphenyl					*87.7*	*79.6*		*18.0-148*				

Method Blank (MB)

(MB) R3597148-1 11/24/20 21:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C12-C22 Hydrocarbons	U		0.733	4.00
C22-C32 Hydrocarbons	U		1.33	4.00
C32-C40 Hydrocarbons	U		1.33	4.00
(S) o-Terphenyl	*99.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3597148-2 11/24/20 21:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	20.6	82.4	50.0-150	
C12-C22 Hydrocarbons	25.0	19.7	78.8	50.0-150	
(S) o-Terphenyl			*91.7*	*18.0-148*	

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

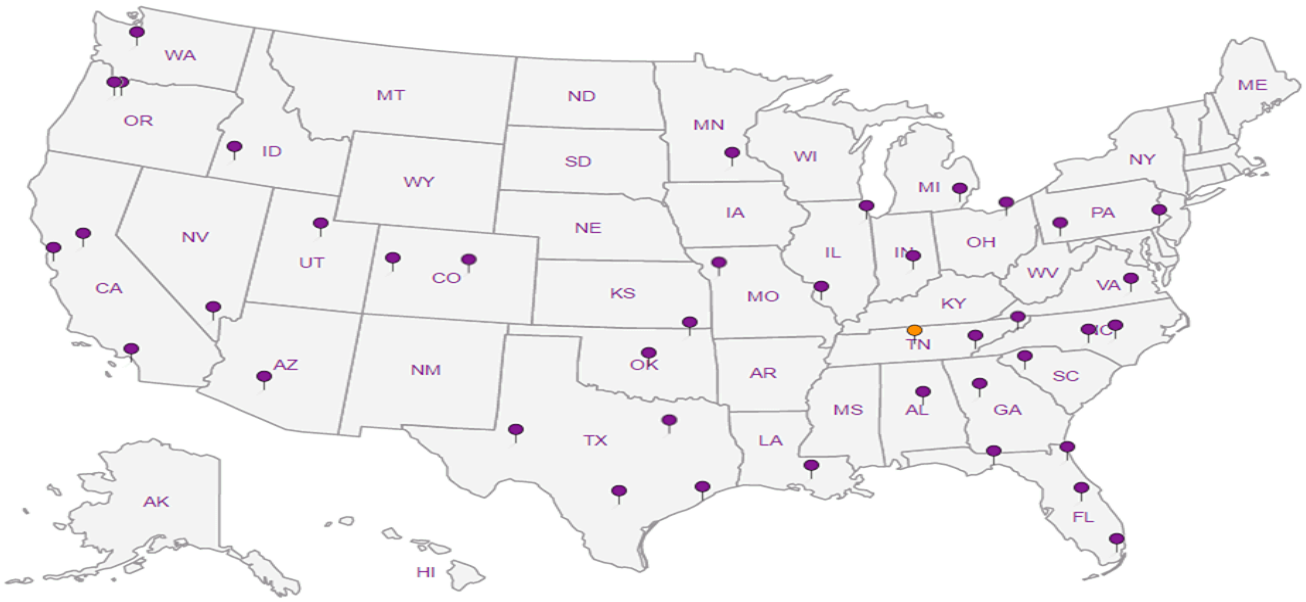
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

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



Chain of Custody Page 1 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net
kduey@rmdes.net

Project Description: 01-BAR-001

City/State Collected: Los Angeles | CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177
3106789367

Client Project #: 01-BAR-001

Lab Project #: RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #:

P.O. #:

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #:

Date Results Needed:

SDG #: L1286255
G133

Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPH(d/o) 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl				Remarks	Sample # (lab only)
B-5-1		S ~~GW~~	1	11/13/20	1120	4												
B-5-2		S ~~GW~~	2	↓	1123	↓												
B-5-3		S ~~GW~~	3	↓	1128	↓			X	X								-11
B-5-4		S ~~GW~~	4	↓	1132	↓												
B-5-5		S ~~GW~~	5	↓	1138	↓												
B-5-Comp		S ~~GW~~	–	↓	–	–	X	X									Comp 1-5	-01
B-6-1		SS	1	↓	1155	4												
B-6-2		SS	2	↓	1158	↓												
B-6-3		SS	3	↓	1202	↓			X	X								-12
B-6-4		SS	4	↓	1205	↓												

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier ________

Tracking # 1676 2752 6709 / 6694

Sample Receipt Checklist
COC Seal Present/Intact: (NP) _Y _N
COC Signed/Accurate: _Y _N
Bottles arrive intact: _Y _N
Correct bottles used: _Y _N
Sufficient volume sent: _Y _N
If Applicable
VOA Zero Headspace: _Y _N
Preservation Correct/Checked: _Y _N
RAD Screen <0.5 mR/hr: _Y _N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)		
[signature]	11/13/20	1700		Trip Blank Received: Yes / (No) HCL / MeOH TBR	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 4.8-.2=4.6 CK [illegible] Bottles Received: 212	11-122 Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 11/16/20 Time: 9:00	11-123 Condition: NCF / OK

Chain of Custody Page 2 of 7

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net

Project Description: 01-BAR-001

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project #: 01-BAR-001

Lab Project #: RMDENVPHCA-LAPROJECT

Collected by (print): D. Gomez-Birenbaum

Site/Facility ID #:

P.O. #:

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #:

Date Results Needed:

SDG #: L1286255

Table #:

Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHgd/g 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl			Remarks	Sample # (lab only)
B-6-5		SS	5	11/13/20	1209	4	~~X~~	~~X~~	(Pgb)							Comp 1-5	
B-6-Comp		SS	–	–	–	–	X	X								↓	-02
B-7-1		SS	1	11/13/20	1230	4											
B-7-2		SS	2	↓	1234	↓											
B-7-3		SS	3	↓	1238	↓			X	X							-13
B-7-4		SS	4	↓	1241	↓											
B-7-5		SS	5	↓	1245	↓											
B-7-Comp		SS	–	–	–	–	X	X								Comp 1-5	-03
B-8-1		SS	1	11/13/20	940	4											
B-8-2		SS	2	↓	944	↓											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Samples returned via: __ UPS __ FedEx __ Courier ______

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)		
[signature]	11/13/20	1700		Trip Blank Received: Yes / (No) HCL / MeOH TBR	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 48-2.4 °C; Bottles Received: 212	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Carol Kemp	Date: 11/16/20 Time: 9:00	Hold: Condition: NCF / OK

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net

Project Description: 01-BAR-01

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project # 01-BAR-001

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHs E/O 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl	Remarks	Sample # (lab only)
B-8-3		SS	3	11/13/20	948	4			X	X					-14
B-8-4		SS	4		953										
B-8-5			5		958										
B-8-Comp			—	—	—	—	X	X						Comp 1-5	-04
B-9-1			1	11/13/20	1020	4									
B-9-2			2		1024										
B-9-3			3		1028				X	X					-15
B-9-4			4		1032										
B-9-5			5		1037										
B-9-Comp			—	—	—	—	X	X						Comp 1-5	-05

Chain of Custody Page 3 of 7

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1286255

Table #

Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__UPS __FedEx __Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: Y NP N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
	11/13/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.8, 4.6 °C Bottles Received: 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/16/20 Time: 9:00	Hold: / Condition: NCF / OK

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net

Project Description: 01-BAR-001

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project # 01-BAR-001

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHs f/o 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl	Remarks	Sample # (lab only)
GW-5-1		SS	1	11/13/20	1047	4									
GW-5-2		SS	2		1052										
GW-5-3		SS	3		1053				X	X					-16
GW-5-4		SS	4		1056										
GW-5-5		SS	5		1059										
GW-5-Comp		SS	-	-	-	-	X	X						Comp 1-5	-06
GW-5		GWSS	-	11/13/20	1154	3						X	X		-17
GW-6-1		SS	1		739	4									
GW-6-2		SS	2		745										
GW-6-3		SS	3		749				X	X					-18

Chain of Custody Page 4 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1286255

Table #

Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	11/13/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 4.8-2.4 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/16/20 Time: 9:00	Hold: / Condition: NCF / OK

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net

Project Description: 01-BAR-001

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project # 01-BAR-001

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #

P.O. #

Collected by (signature): pgo'b

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPH-d/g 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl	Remarks	Sample # (lab only)
GW-6-4		SS	4	11/13/20	753	4									
GW-6-5		SS	5	↓	756	↓									
GW-6-Comp		SS	—	—	—	—	X	X						Comp 1-5	-07
GW-6		~~GW~~ SS	—	11/13/20	1326	3						X	X		-19
GW-7-1		SS	1	11/12/20	1634	4									
GW-7-2		SS	2		1638										
GW-7-3		SS	3		1644				X	X					-20
GW-7-4		SS	4		1650										
GW-7-5		SS	5		1654										
GW-7-Comp		SS	—	—	—	—	X	X						Comp 1-5	-08

Chain of Custody Page 5 of 7

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
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SDG # L1286255

Table #

Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
pgo'b	11/12/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.8-2.4 °C Bottles Received: 21	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Carl Kemp	Date: 11/16/20 Time: 9:00	Hold: / Condition: NCF / OK

RMD Environmental - Walnut Creek, CA	Billing Information:	Pres Chk
1371 Oakland Blvd. Suite 200 Walnut Creek, CA 94596	Accounts Payable 1371 Oakland Blvd. Suite 200 Walnut Creek, CA 94596	
Report to: Paola Gomez-Birenbaum	Email To: pgomezbirenbaum@rmdes.net	

Chain of Custody Page 6 of 7

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Project Description: 01-BAR-001	City/State Collected: Los Angeles CA	Please Circle: (PT) MT CT ET
Phone: 925-683-8177	Client Project # 01-BAR-001	Lab Project # RMDENVPHCA-LAPROJECT
Collected by (print): P. Gomez-Birenbaum	Site/Facility ID #	P.O. #
Collected by (signature): [signature] Immediately Packed on Ice N ___ Y X	*Rush?* (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day	Quote # Date Results Needed

SDG # L1286255
Table #
Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHsd/o 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl			Remarks	Sample # (lab only)
GW-7		GWSS	–	11/12/20	1732	3						X	X				-21
GW-8-1		SS	1	↓	1435	4											
GW-8-2		SS	2		1439	↓											
GW-8-3		SS	3		1442				X	X							-22
GW-8-4		SS	4		1448												
GW-8-5		SS	5		1453												
GW-8-Comp		SS	–	↓	–	–	X	X								Comp 1-5	-09
GW-8		GWSS	–	11/12/20	1550	3						X	X				-23
GW-9-1		SS	1	11/13/20	849	4											
GW-9-2		SS	2	↓	853	4											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier ________

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: (NP) _Y _N
COC Signed/Accurate: _Y _N
Bottles arrive intact: _Y _N
Correct bottles used: _Y _N
Sufficient volume sent: _Y _N
If Applicable
VOA Zero Headspace: _Y _N
Preservation Correct/Checked: _Y _N
RAD Screen <0.5 mR/hr: _Y _N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	
[signature]	11/13/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 4.8-.2=4.6 [illegible] Bottles Received: 12	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 11/16/20 Time: 9:00	Hold: Condition: NCF / OK

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net

Project Description: 01-BAR-001

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project # 01-BAR-001

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 7 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1286255

Table #

Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHd/o 2-4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl	Remarks	Sample # (lab only)
GW-9-3		SS	3	11/13/20	858	4			X	X					-24
GW-9-4		SS	4	↓	903	↓									
GW-9-5		SS	5	↓	907	↓									
GW-9-Comp		SS	—	—	—	—	X	X						Comp 1-5	-10
		SS													
		SS													
		SS													
		SS													
		SS													
		SS													

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	11/12/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
				4.8-2-4.8 CK 2 2	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
			Carol Kemp	11/16/20 9:00	

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 23, 2020

RMD Environmental - Walnut Creek, CA

Sample Delivery Group:	L1286719
Samples Received:	11/17/2020
Project Number:	01-BAR-001 2
Description:	

Report To: Paola Gomez-Birenbaum
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Entire Report Reviewed By:

Jared Starkey
Project Manager

TABLE OF CONTENTS

SV-9 L1286719-01 Air

Collected by: Ben McVeigh
Collected date/time: 11/16/20 08:22
Received date/time: 11/17/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1580332	1	11/21/20 18:06	11/21/20 18:06	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1578175	1	11/18/20 08:48	11/18/20 08:48	DAH	Mt. Juliet, TN

SV-10 L1286719-02 Air

Collected by: Ben McVeigh
Collected date/time: 11/16/20 08:40
Received date/time: 11/17/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1580332	1	11/21/20 18:46	11/21/20 18:46	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1578175	1	11/18/20 08:57	11/18/20 08:57	DAH	Mt. Juliet, TN

SV-11 L1286719-03 Air

Collected by: Ben McVeigh
Collected date/time: 11/16/20 08:58
Received date/time: 11/17/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1580332	1	11/21/20 19:28	11/21/20 19:28	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1578175	1	11/18/20 09:03	11/18/20 09:03	DAH	Mt. Juliet, TN

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

Jared Starkey
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Client ID	Lab Sample ID	Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
					ppbv	ug/m3	ppbv	ug/m3			
SV-9	L1286719-01	Acetone	67-64-1	58.10	1.25	2.97	10.2	24.2		1	WG1580332
SV-9	L1286719-01	Benzene	71-43-2	78.10	0.200	0.639	0.469	1.50		1	WG1580332
SV-9	L1286719-01	Chloromethane	74-87-3	50.50	0.200	0.413	0.674	1.39		1	WG1580332
SV-9	L1286719-01	Ethanol	64-17-5	46.10	0.630	1.19	51.9	97.9		1	WG1580332
SV-9	L1286719-01	Ethylbenzene	100-41-4	106	0.200	0.867	0.211	0.915		1	WG1580332
SV-9	L1286719-01	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.563	3.16		1	WG1580332
SV-9	L1286719-01	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.750	3.71		1	WG1580332
SV-9	L1286719-01	n-Hexane	110-54-3	86.20	0.630	2.22	0.729	2.57		1	WG1580332
SV-9	L1286719-01	Methylene Chloride	75-09-2	84.90	0.200	0.694	1.05	3.65		1	WG1580332
SV-9	L1286719-01	2-Propanol	67-63-0	60.10	1.25	3.07	7.86	19.3		1	WG1580332
SV-9	L1286719-01	Tetrachloroethylene	127-18-4	166	0.200	1.36	1.14	7.74		1	WG1580332
SV-9	L1286719-01	Toluene	108-88-3	92.10	0.500	1.88	1.51	5.69		1	WG1580332
SV-9	L1286719-01	Trichloroethylene	79-01-6	131	0.200	1.07	0.201	1.08		1	WG1580332
SV-9	L1286719-01	1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.211	1.04		1	WG1580332
SV-9	L1286719-01	2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.378	1.77		1	WG1580332
SV-9	L1286719-01	m&p-Xylene	1330-20-7	106	0.400	1.73	0.656	2.84		1	WG1580332
SV-9	L1286719-01	o-Xylene	95-47-6	106	0.200	0.867	0.267	1.16		1	WG1580332
SV-9	L1286719-01	1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	14.4	38.9		1	WG1580332
SV-10	L1286719-02	Acetone	67-64-1	58.10	1.25	2.97	20.2	48.0		1	WG1580332
SV-10	L1286719-02	Benzene	71-43-2	78.10	0.200	0.639	1.36	4.34		1	WG1580332
SV-10	L1286719-02	Carbon disulfide	75-15-0	76.10	0.200	0.622	12.6	39.2		1	WG1580332
SV-10	L1286719-02	Carbon tetrachloride	56-23-5	154	0.200	1.26	0.269	1.69		1	WG1580332
SV-10	L1286719-02	Chloromethane	74-87-3	50.50	0.200	0.413	0.260	0.537		1	WG1580332
SV-10	L1286719-02	Cyclohexane	110-82-7	84.20	0.200	0.689	0.784	2.70		1	WG1580332
SV-10	L1286719-02	1,4-Dioxane	123-91-1	88.10	0.200	0.721	1.09	3.93		1	WG1580332
SV-10	L1286719-02	Ethanol	64-17-5	46.10	0.630	1.19	20.5	38.7		1	WG1580332
SV-10	L1286719-02	Ethylbenzene	100-41-4	106	0.200	0.867	1.83	7.93		1	WG1580332
SV-10	L1286719-02	4-Ethyltoluene	622-96-8	120	0.200	0.982	0.489	2.40		1	WG1580332
SV-10	L1286719-02	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	2.32	13.0		1	WG1580332
SV-10	L1286719-02	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.72	8.51		1	WG1580332
SV-10	L1286719-02	n-Hexane	110-54-3	86.20	0.630	2.22	2.46	8.67		1	WG1580332
SV-10	L1286719-02	Methyl Butyl Ketone	591-78-6	100	1.25	5.11	2.63	10.8		1	WG1580332
SV-10	L1286719-02	2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	10.1	29.8		1	WG1580332
SV-10	L1286719-02	4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	2.36	9.66		1	WG1580332
SV-10	L1286719-02	Naphthalene	91-20-3	128	0.630	3.30	2.08	10.9		1	WG1580332
SV-10	L1286719-02	2-Propanol	67-63-0	60.10	1.25	3.07	2.12	5.21		1	WG1580332
SV-10	L1286719-02	Propene	115-07-1	42.10	0.400	0.689	2.39	4.12		1	WG1580332
SV-10	L1286719-02	Tetrachloroethylene	127-18-4	166	0.200	1.36	9.21	62.5		1	WG1580332
SV-10	L1286719-02	Tetrahydrofuran	109-99-9	72.10	0.200	0.590	3.34	9.85		1	WG1580332
SV-10	L1286719-02	Toluene	108-88-3	92.10	0.500	1.88	0.730	2.75		1	WG1580332
SV-10	L1286719-02	1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.92	9.42		1	WG1580332
SV-10	L1286719-02	1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.329	1.61		1	WG1580332
SV-10	L1286719-02	2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.95	9.11		1	WG1580332
SV-10	L1286719-02	m&p-Xylene	1330-20-7	106	0.400	1.73	1.40	6.07		1	WG1580332
SV-10	L1286719-02	o-Xylene	95-47-6	106	0.200	0.867	0.229	0.993		1	WG1580332
SV-10	L1286719-02	1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	3.19	8.62		1	WG1580332
SV-10	L1286719-02	TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	405	1670		1	WG1580332
SV-11	L1286719-03	Acetone	67-64-1	58.10	1.25	2.97	5.21	12.4		1	WG1580332
SV-11	L1286719-03	Carbon disulfide	75-15-0	76.10	0.200	0.622	0.918	2.86		1	WG1580332
SV-11	L1286719-03	Ethanol	64-17-5	46.10	0.630	1.19	14.1	26.6		1	WG1580332
SV-11	L1286719-03	Ethylbenzene	100-41-4	106	0.200	0.867	0.245	1.06		1	WG1580332
SV-11	L1286719-03	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.953	5.36		1	WG1580332
SV-11	L1286719-03	Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.40	6.92		1	WG1580332
SV-11	L1286719-03	Methylene Chloride	75-09-2	84.90	0.200	0.694	0.239	0.830		1	WG1580332
SV-11	L1286719-03	2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.35	3.98		1	WG1580332

Volatile Organic Compounds (MS) by Method TO-15

Client ID	Lab Sample ID	Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
					ppbv	ug/m3	ppbv	ug/m3			
SV-11	L1286719-03	Acetone	67-64-1	58.10	1.25	2.97	5.21	12.4		1	WG1580332
SV-11	L1286719-03	Carbon disulfide	75-15-0	76.10	0.200	0.622	0.918	2.86		1	WG1580332
SV-11	L1286719-03	Ethanol	64-17-5	46.10	0.630	1.19	14.1	26.6		1	WG1580332
SV-11	L1286719-03	Ethylbenzene	100-41-4	106	0.200	0.867	0.245	1.06		1	WG1580332
SV-11	L1286719-03	Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.953	5.36		1	WG1580332
SV-11	L1286719-03	2-Propanol	67-63-0	60.10	1.25	3.07	1.34	3.29		1	WG1580332
SV-11	L1286719-03	Tetrachloroethylene	127-18-4	166	0.200	1.36	8.57	58.2		1	WG1580332
SV-11	L1286719-03	m&p-Xylene	1330-20-7	106	0.400	1.73	1.03	4.47		1	WG1580332
SV-11	L1286719-03	o-Xylene	95-47-6	106	0.200	0.867	0.406	1.76		1	WG1580332
SV-11	L1286719-03	1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	6.66	18.0		1	WG1580332

Organic Compounds (GC) by Method D1946

Client ID	Lab Sample ID	Analyte	CAS #	Mol. Wt.	RDL	Result	Qualifier	Dilution	Batch
					%	%			
SV-9	L1286719-01	Oxygen	7782-44-7	32	5.00	22.4		1	WG1578175
SV-10	L1286719-02	Oxygen	7782-44-7	32	5.00	22.9		1	WG1578175
SV-11	L1286719-03	Oxygen	7782-44-7	32	5.00	22.5		1	WG1578175

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	10.2	24.2		1	WG1580332
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1580332
Benzene	71-43-2	78.10	0.200	0.639	0.469	1.50		1	WG1580332
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1580332
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1580332
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1580332
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1580332
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1580332
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1580332
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1580332
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1580332
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1580332
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1580332
Chloromethane	74-87-3	50.50	0.200	0.413	0.674	1.39		1	WG1580332
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1580332
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1580332
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1580332
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1580332
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1580332
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1580332
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1580332
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1580332
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1580332
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1580332
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1580332
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1580332
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1580332
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1580332
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1580332
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1580332
Ethanol	64-17-5	46.10	0.630	1.19	51.9	97.9		1	WG1580332
Ethylbenzene	100-41-4	106	0.200	0.867	0.211	0.915		1	WG1580332
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1580332
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.563	3.16		1	WG1580332
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.750	3.71		1	WG1580332
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1580332
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1580332
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1580332
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1580332
n-Hexane	110-54-3	86.20	0.630	2.22	0.729	2.57		1	WG1580332
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1580332
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.05	3.65		1	WG1580332
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1580332
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1580332
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1580332
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1580332
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1580332
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1580332
2-Propanol	67-63-0	60.10	1.25	3.07	7.86	19.3		1	WG1580332
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1580332
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1580332
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1580332
Tetrachloroethylene	127-18-4	166	0.200	1.36	1.14	7.74		1	WG1580332
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1580332
Toluene	108-88-3	92.10	0.500	1.88	1.51	5.69		1	WG1580332
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1580332

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1580332
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1580332
Trichloroethylene	79-01-6	131	0.200	1.07	0.201	1.08		1	WG1580332
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.211	1.04		1	WG1580332
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1580332
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.378	1.77		1	WG1580332
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1580332
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1580332
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1580332
m&p-Xylene	1330-20-7	106	0.400	1.73	0.656	2.84		1	WG1580332
o-Xylene	95-47-6	106	0.200	0.867	0.267	1.16		1	WG1580332
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	14.4	38.9		1	WG1580332
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1580332
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*91.5*				WG1580332

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	22.4		1	WG1578175
Carbon Monoxide	630-08-0	28	2.00	ND		1	WG1578175
Carbon Dioxide	124-38-9	44.01	0.500	ND		1	WG1578175
Methane	74-82-8	16	0.400	ND		1	WG1578175

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	20.2	48.0		1	WG1580332
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1580332
Benzene	71-43-2	78.10	0.200	0.639	1.36	4.34		1	WG1580332
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1580332
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1580332
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1580332
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1580332
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1580332
Carbon disulfide	75-15-0	76.10	0.200	0.622	12.6	39.2		1	WG1580332
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.269	1.69		1	WG1580332
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1580332
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1580332
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1580332
Chloromethane	74-87-3	50.50	0.200	0.413	0.260	0.537		1	WG1580332
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1580332
Cyclohexane	110-82-7	84.20	0.200	0.689	0.784	2.70		1	WG1580332
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1580332
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1580332
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1580332
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1580332
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1580332
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1580332
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1580332
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1580332
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1580332
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1580332
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1580332
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1580332
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1580332
1,4-Dioxane	123-91-1	88.10	0.200	0.721	1.09	3.93		1	WG1580332
Ethanol	64-17-5	46.10	0.630	1.19	20.5	38.7		1	WG1580332
Ethylbenzene	100-41-4	106	0.200	0.867	1.83	7.93		1	WG1580332
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.489	2.40		1	WG1580332
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	2.32	13.0		1	WG1580332
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.72	8.51		1	WG1580332
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1580332
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1580332
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1580332
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1580332
n-Hexane	110-54-3	86.20	0.630	2.22	2.46	8.67		1	WG1580332
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1580332
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1580332
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	2.63	10.8		1	WG1580332
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	10.1	29.8		1	WG1580332
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	2.36	9.66		1	WG1580332
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1580332
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1580332
Naphthalene	91-20-3	128	0.630	3.30	2.08	10.9		1	WG1580332
2-Propanol	67-63-0	60.10	1.25	3.07	2.12	5.21		1	WG1580332
Propene	115-07-1	42.10	0.400	0.689	2.39	4.12		1	WG1580332
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1580332
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1580332
Tetrachloroethylene	127-18-4	166	0.200	1.36	9.21	62.5		1	WG1580332
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	3.34	9.85		1	WG1580332
Toluene	108-88-3	92.10	0.500	1.88	0.730	2.75		1	WG1580332
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1580332

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1580332
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1580332
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1580332
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.92	9.42		1	WG1580332
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.329	1.61		1	WG1580332
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.95	9.11		1	WG1580332
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1580332
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1580332
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1580332
m&p-Xylene	1330-20-7	106	0.400	1.73	1.40	6.07		1	WG1580332
o-Xylene	95-47-6	106	0.200	0.867	0.229	0.993		1	WG1580332
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	3.19	8.62		1	WG1580332
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	405	1670		1	WG1580332
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG1580332

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	22.9		1	WG1578175
Carbon Monoxide	630-08-0	28	2.00	ND		1	WG1578175
Carbon Dioxide	124-38-9	44.01	0.500	ND		1	WG1578175
Methane	74-82-8	16	0.400	ND		1	WG1578175

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	5.21	12.4		1	WG1580332
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1580332
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1580332
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1580332
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1580332
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1580332
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1580332
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1580332
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.918	2.86		1	WG1580332
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1580332
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1580332
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1580332
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1580332
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1580332
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1580332
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1580332
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1580332
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1580332
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1580332
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1580332
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1580332
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1580332
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1580332
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1580332
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1580332
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1580332
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1580332
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1580332
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1580332
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1580332
Ethanol	64-17-5	46.10	0.630	1.19	14.1	26.6		1	WG1580332
Ethylbenzene	100-41-4	106	0.200	0.867	0.245	1.06		1	WG1580332
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1580332
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.953	5.36		1	WG1580332
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	1.40	6.92		1	WG1580332
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1580332
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1580332
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1580332
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1580332
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1580332
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1580332
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.239	0.830		1	WG1580332
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1580332
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.35	3.98		1	WG1580332
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1580332
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1580332
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1580332
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1580332
2-Propanol	67-63-0	60.10	1.25	3.07	1.34	3.29		1	WG1580332
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1580332
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1580332
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1580332
Tetrachloroethylene	127-18-4	166	0.200	1.36	8.57	58.2		1	WG1580332
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1580332
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1580332
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1580332

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1580332
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1580332
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1580332
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1580332
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1580332
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1580332
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1580332
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1580332
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1580332
m&p-Xylene	1330-20-7	106	0.400	1.73	1.03	4.47		1	WG1580332
o-Xylene	95-47-6	106	0.200	0.867	0.406	1.76		1	WG1580332
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	6.66	18.0		1	WG1580332
TPH (GC/MS) Low Fraction	8006-61-9	101	200	826	ND	ND		1	WG1580332
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*90.7*				WG1580332

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	22.5		1	WG1578175
Carbon Monoxide	630-08-0	28	2.00	ND		1	WG1578175
Carbon Dioxide	124-38-9	44.01	0.500	ND		1	WG1578175
Methane	74-82-8	16	0.400	ND		1	WG1578175

Method Blank (MB)

(MB) R3596010-2 11/21/20 07:47

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl Chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	0.0672	J	0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.200
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630
Isopropylbenzene	U		0.0777	0.200

Method Blank (MB)

(MB) R3596010-2 11/21/20 07:47

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl Methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.128	J	0.0932	0.400
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
Ethanol	U		0.265	0.630
TPH (GC/MS) Low Fraction	U		39.7	200
1,1-Difluoroethane	U		0.129	1.00
(S) 1,4-Bromofluorobenzene	*86.3*			*60.0-140*

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

(LCS) R3596010-1 11/21/20 07:10 • (LCSD) R3596010-3 11/21/20 09:13

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.75	3.97	100	106	55.0-148			5.70	25
Propene	3.75	3.95	3.83	105	102	64.0-144			3.08	25
Dichlorodifluoromethane	3.75	3.98	3.59	106	95.7	64.0-139			10.3	25

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

(LCS) R3596010-1 11/21/20 07:10 • (LCSD) R3596010-3 11/21/20 09:13

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dichlorotetrafluoroethane	3.75	4.01	3.82	107	102	70.0-130			4.85	25
Chloromethane	3.75	3.82	3.68	102	98.1	70.0-130			3.73	25
Vinyl chloride	3.75	3.90	3.82	104	102	70.0-130			2.07	25
1,3-Butadiene	3.75	3.66	3.72	97.6	99.2	70.0-130			1.63	25
Bromomethane	3.75	3.79	3.88	101	103	70.0-130			2.35	25
Chloroethane	3.75	3.78	3.93	101	105	70.0-130			3.89	25
Trichlorofluoromethane	3.75	3.73	3.70	99.5	98.7	70.0-130			0.808	25
1,1,2-Trichlorotrifluoroethane	3.75	3.60	3.50	96.0	93.3	70.0-130			2.82	25
1,1-Dichloroethene	3.75	3.84	3.34	102	89.1	70.0-130			13.9	25
1,1-Dichloroethane	3.75	3.91	3.83	104	102	70.0-130			2.07	25
Acetone	3.75	3.69	3.64	98.4	97.1	70.0-130			1.36	25
2-Propanol	3.75	3.64	3.73	97.1	99.5	70.0-139			2.44	25
Carbon disulfide	3.75	3.93	3.65	105	97.3	70.0-130			7.39	25
Methylene Chloride	3.75	3.77	3.72	101	99.2	70.0-130			1.34	25
MTBE	3.75	3.81	3.76	102	100	70.0-130			1.32	25
trans-1,2-Dichloroethene	3.75	3.80	3.78	101	101	70.0-130			0.528	25
n-Hexane	3.75	3.74	3.61	99.7	96.3	70.0-130			3.54	25
Vinyl acetate	3.75	3.64	3.69	97.1	98.4	70.0-130			1.36	25
Methyl Ethyl Ketone	3.75	3.81	3.84	102	102	70.0-130			0.784	25
cis-1,2-Dichloroethene	3.75	3.57	3.41	95.2	90.9	70.0-130			4.58	25
Chloroform	3.75	3.94	3.65	105	97.3	70.0-130			7.64	25
Cyclohexane	3.75	3.87	3.73	103	99.5	70.0-130			3.68	25
1,1,1-Trichloroethane	3.75	3.78	3.70	101	98.7	70.0-130			2.14	25
Carbon tetrachloride	3.75	3.76	3.72	100	99.2	70.0-130			1.07	25
Benzene	3.75	3.83	3.84	102	102	70.0-130			0.261	25
1,2-Dichloroethane	3.75	3.82	3.67	102	97.9	70.0-130			4.01	25
Heptane	3.75	3.76	3.79	100	101	70.0-130			0.795	25
Trichloroethylene	3.75	3.84	3.89	102	104	70.0-130			1.29	25
1,2-Dichloropropane	3.75	3.96	3.82	106	102	70.0-130			3.60	25
1,4-Dioxane	3.75	3.62	3.94	96.5	105	70.0-140			8.47	25
Bromodichloromethane	3.75	3.80	3.81	101	102	70.0-130			0.263	25
cis-1,3-Dichloropropene	3.75	3.87	3.78	103	101	70.0-130			2.35	25
4-Methyl-2-pentanone (MIBK)	3.75	3.92	4.02	105	107	70.0-139			2.52	25
Toluene	3.75	3.70	3.70	98.7	98.7	70.0-130			0.000	25
trans-1,3-Dichloropropene	3.75	3.59	3.69	95.7	98.4	70.0-130			2.75	25
1,1,2-Trichloroethane	3.75	3.95	3.87	105	103	70.0-130			2.05	25
Tetrachloroethylene	3.75	3.99	3.99	106	106	70.0-130			0.000	25
Methyl Butyl Ketone	3.75	3.88	3.99	103	106	70.0-149			2.80	25
Dibromochloromethane	3.75	3.93	3.89	105	104	70.0-130			1.02	25
1,2-Dibromoethane	3.75	3.88	3.84	103	102	70.0-130			1.04	25

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

(LCS) R3596010-1 11/21/20 07:10 • (LCSD) R3596010-3 11/21/20 09:13

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	3.75	3.93	3.93	105	105	70.0-130			0.000	25
Ethylbenzene	3.75	3.86	3.73	103	99.5	70.0-130			3.43	25
m&p-Xylene	7.50	7.63	7.40	102	98.7	70.0-130			3.06	25
o-Xylene	3.75	3.82	3.72	102	99.2	70.0-130			2.65	25
Styrene	3.75	4.14	4.01	110	107	70.0-130			3.19	25
Bromoform	3.75	3.99	3.84	106	102	70.0-130			3.83	25
1,1,2,2-Tetrachloroethane	3.75	4.09	3.98	109	106	70.0-130			2.73	25
4-Ethyltoluene	3.75	3.99	3.97	106	106	70.0-130			0.503	25
1,3,5-Trimethylbenzene	3.75	3.77	3.81	101	102	70.0-130			1.06	25
1,2,4-Trimethylbenzene	3.75	3.81	3.77	102	101	70.0-130			1.06	25
1,3-Dichlorobenzene	3.75	3.64	3.50	97.1	93.3	70.0-130			3.92	25
1,4-Dichlorobenzene	3.75	4.74	4.67	126	125	70.0-130			1.49	25
Benzyl Chloride	3.75	4.86	5.15	130	137	70.0-152			5.79	25
1,2-Dichlorobenzene	3.75	4.29	4.26	114	114	70.0-130			0.702	25
1,2,4-Trichlorobenzene	3.75	4.28	4.43	114	118	70.0-160			3.44	25
Hexachloro-1,3-butadiene	3.75	4.12	3.99	110	106	70.0-151			3.21	25
Naphthalene	3.75	4.07	3.95	109	105	70.0-159			2.99	25
TPH (GC/MS) Low Fraction	203	249	240	123	118	70.0-130			3.68	25
Allyl Chloride	3.75	3.53	3.51	94.1	93.6	70.0-130			0.568	25
2-Chlorotoluene	3.75	3.95	3.81	105	102	70.0-130			3.61	25
Methyl Methacrylate	3.75	3.64	3.81	97.1	102	70.0-130			4.56	25
Tetrahydrofuran	3.75	3.64	3.79	97.1	101	70.0-137			4.04	25
2,2,4-Trimethylpentane	3.75	3.85	3.70	103	98.7	70.0-130			3.97	25
Vinyl Bromide	3.75	3.95	3.83	105	102	70.0-130			3.08	25
Isopropylbenzene	3.75	3.99	3.88	106	103	70.0-130			2.80	25
1,1-Difluoroethane	3.75	3.99	3.87	106	103	70.0-130			3.05	25
(S) 1,4-Bromofluorobenzene				*101*	*96.7*	*60.0-140*				

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

Method Blank (MB)

(MB) R3594299-3 11/18/20 08:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Oxygen	1.66		0.225	5.00
Carbon Monoxide	U		0.665	2.00
Carbon Dioxide	U		0.121	0.500
Methane	U		0.0584	0.400

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

(LCS) R3594299-1 11/18/20 08:14 • (LCSD) R3594299-2 11/18/20 08:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	%	%	%	%	%	%			%	%
Oxygen	20.0	21.6	20.7	108	104	70.0-130			4.26	20
Carbon Monoxide	2.50	2.32	2.24	92.8	89.6	70.0-130			3.51	20
Carbon Dioxide	2.50	2.50	2.44	100	97.6	70.0-130			2.43	20
Methane	2.00	1.96	1.88	98.0	94.0	70.0-130			4.17	20

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

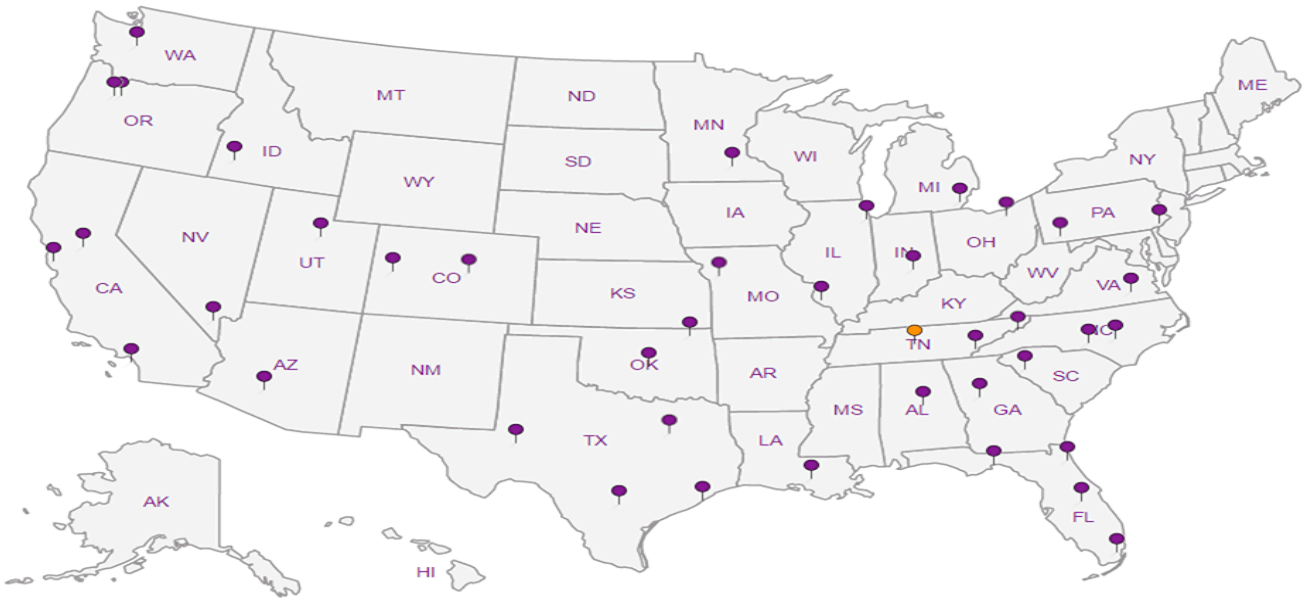
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

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



RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Email To: pgomezbirenbaum@rmdes.net

Report to: Paola Gomez-Birenbaum

Project Description:

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project # 01-RAR-0012

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): Ben McVeigh

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Site/Facility ID #

P.O. #

Quote #

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	FIXGASPC Summa	HELIUM Summa	TO-15 Summa (TCE, VOCs + 1,1-DFA)	Remarks	Sample # (lab only)
SV-9		Air		11/16/20	852	1	✓		✓		-01
SV-10		Air		11/16/20	840	1	✓		✓		-02
SV-11		Air		11/16/20	858	1	✓		✓		-03

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
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SDG # J063

Tat L1286719

Acctnum: RMDENVPHCA

Template: T177367

Prelogin: P808466

PM: 546 - Jared Starkey

PB: CG 11/16/20

Shipped Via: FedEX Standard

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 9362 4938 2044

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

	Date:	Time:		
Relinquished by : (Signature)	11/16/20	1000	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: AMB °C Bottles Received: 3
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) R. Holdeman	Date: 11/17/20 Time: 9:50

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 07, 2020

RMD Environmental - Walnut Creek, CA

Sample Delivery Group:	L1290638
Samples Received:	11/16/2020
Project Number:	01-BAR-001
Description:	01-BAR-001

Report To: Paola Gomez-Birenbaum
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Entire Report Reviewed By:

Jared Starkey
Project Manager

TABLE OF CONTENTS

B-5-COMP L1290638-01 GW

Collected by	Collected date/time	Received date/time
PGB	11/13/20 00:00	11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1584597	1	12/01/20 11:52	12/01/20 11:52	APH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1586358	9	12/04/20 10:03	12/04/20 21:44	EL	Mt. Juliet, TN

B-8-COMP L1290638-02 GW

Collected by	Collected date/time	Received date/time
PGB	11/13/20 00:00	11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1584597	1	12/01/20 11:52	12/01/20 11:52	APH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1586358	9	12/04/20 10:03	12/04/20 21:55	EL	Mt. Juliet, TN

GW-5-COMP L1290638-03 GW

Collected by	Collected date/time	Received date/time
PGB	11/13/20 00:00	11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1584597	1	12/01/20 11:52	12/01/20 11:52	APH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1586358	9	12/04/20 10:03	12/04/20 21:58	EL	Mt. Juliet, TN

GW-7-COMP L1290638-04 GW

Collected by	Collected date/time	Received date/time
PGB	11/13/20 00:00	11/16/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 22CCRA2	WG1584597	1	12/01/20 11:52	12/01/20 11:52	APH	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1586358	9	12/04/20 10:03	12/04/20 22:00	EL	Mt. Juliet, TN

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

Jared Starkey
Project Manager

Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
B-5-COMP	L1290638-01	Chromium	45.6	J	12.6	90.0	9	12/04/2020 21:44	WG1586358
B-8-COMP	L1290638-02	Chromium	56.0	J	12.6	90.0	9	12/04/2020 21:55	WG1586358
GW-5-COMP	L1290638-03	Chromium	57.5	J	12.6	90.0	9	12/04/2020 21:58	WG1586358
GW-7-COMP	L1290638-04	Lead	2690		26.9	54.0	9	12/04/2020 22:00	WG1586358

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-				1	12/01/2020 11:52	WG1584597
Final pH	5.26				1	12/01/2020 11:52	WG1584597

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Chromium	45.6	J	12.6	90.0	9	12/04/2020 21:44	WG1586358

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-				1	12/01/2020 11:52	WG1584597
Final pH	5.36				1	12/01/2020 11:52	WG1584597

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Chromium	56.0	J	12.6	90.0	9	12/04/2020 21:55	WG1586358

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-				1	12/01/2020 11:52	WG1584597
Final pH	5.35				1	12/01/2020 11:52	WG1584597

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Chromium	57.5	J	12.6	90.0	9	12/04/2020 21:58	WG1586358

Preparation by Method 22CCRA2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
STLC Extraction	-				1	12/01/2020 11:52	WG1584597
Final pH	5.51				1	12/01/2020 11:52	WG1584597

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Lead	2690		26.9	54.0	9	12/04/2020 22:00	WG1586358

Method Blank (MB)

(MB) R3600828-1 12/04/20 21:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chromium	U		12.6	90.0
Lead	U		26.9	54.0

Laboratory Control Sample (LCS)

(LCS) R3600828-2 12/04/20 21:41

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chromium	1000	1100	110	80.0-120	
Lead	1000	1130	113	80.0-120	

L1290638-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1290638-01 12/04/20 21:44 • (MS) R3600828-4 12/04/20 21:49 • (MSD) R3600828-5 12/04/20 21:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Chromium	1000	45.6	9520	9920	105	110	9	75.0-125			4.04	20
Lead	1000	59.7	9900	10200	109	113	9	75.0-125			3.06	20

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

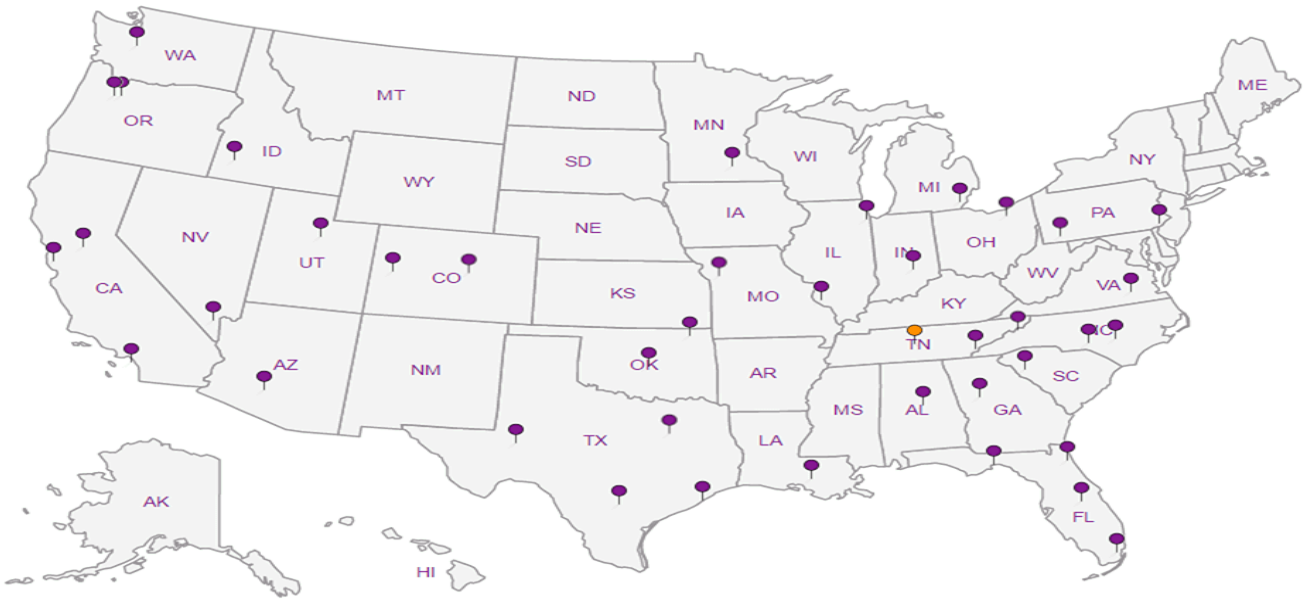
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

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



RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net kduey@rmdes.net

Project Description: 01-BAR-001

City/State Collected: Los Angeles / CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177
3106789367

Client Project # 01-BAR-001

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #

P.O. #

Collected by (signature): Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPH-d/o 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl			Remarks	Sample # (lab only)
B-5-1		S ~~GW~~	1	11/13/20	1120	4											
B-5-2		S ~~GW~~	2		1123												
B-5-3		S ~~GW~~	3		1128				X	X							~~-11~~
B-5-4		S ~~GW~~	4		1132												
B-5-5		S ~~GW~~	5		1138												
B-5-Comp		S ~~GW~~	-		-	-	X	X								Comp 1-5	~~-01~~ -01
B-6-1		SS	1		1155	4											
B-6-2		SS	2		1158												
B-6-3		SS	3		1202				X	X							~~-12~~
B-6-4		SS	4		1205												

Chain of Custody Page 1 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # ~~L1286255~~ G133 L1290638

AN 11/30/20

Acctnum: RMDENVPHCA
Template: T177364
Prelogin: P808464
PM: 546 - Jared Starkey
PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier

Tracking # 1676 2752 6709 6694

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Sgob	11/13/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.8-2.4 °C Bottles Received: 21	11-122 Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/16/20 Time: 9:00	11-123 Condition: NCF / OK

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net

Project Description: 01-BAR-01

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project # 01-BAR-001

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 3 of 7

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # L1486855

Table # L1290638

Acctnum: RMDENVPHCA

Template: T177364

Prelogin: P808464

PM: 546 - Jared Starkey

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHs 8/8 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl		Remarks	Sample # (lab only)
B-8-3		SS	3	11/13/20	948	4			X	X						-14
B-8-4		SS	4		953											
B-8-5			5		958											
B-8-Comp			—	—	—	—	X	X							Comp 1-5	-04 -02
B-9-1			1	11/13/20	1020	4										
B-9-2			2		1024											
B-9-3			3		1028				X	X						-15
B-9-4			4		1032											
B-9-5			5		1037											
B-9-Comp			—	—	—	—	X	X							Comp 1-5	-05

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
[signature]	11/13/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.8; 5.4; 6.1 °C Bottles Received: 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 11/16/20 Time: 9:10	Hold: Condition: NCF / OK

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Report to: Paola Gomez-Birenbaum

Project Description: D1-BAR-001

City/State Collected: Los Angeles CA

Phone: 925-683-8177

Client Project #: D1-BAR-001

Lab Project #: RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Site/Facility ID #:

P.O. #:

Quote #:

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed:

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Email To: pgomezbirenbaum@rmdes.net

Please Circle: (PT) MT CT ET

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHs 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl	Remarks	Sample # (lab only)
GW-5-1		SS	1	11/13/20	1047	4									
GW-5-2		SS	2		1052										
GW-5-3		SS	3		1053				X	X					-16
GW-5-4		SS	4		1056										
GW-5-5		SS	5		1059										
GW-5-Comp		SS	—	—	—	—	X	X						Comp 1-5	-06 -03
GW-5		GWSS	—	11/13/20	1154	3						X	X		-17
GW-6-1		SS	1		739	4									
GW-6-2		SS	2		745										
GW-6-3		SS	3		749				X	X					-18

Chain of Custody Page 4 of 7

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
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Phone: 800-767-5859
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SDG # L1286255

Table # L1290638

Acctnum: RMDENVPHCA

Template: T177364

Prelogin: P808464

PM: 546 - Jared Starkey

PB:

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* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
[signature]	11/13/20	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.8-1.4=3.4 °C Bottles Received: 212	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 11/16/20 Time: 9:00	Hold: Condition: NCF / OK

RMD Environmental - Walnut Creek, CA

1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Billing Information:
Accounts Payable
1371 Oakland Blvd.
Suite 200
Walnut Creek, CA 94596

Pres Chk

Report to: Paola Gomez-Birenbaum

Email To: pgomezbirenbaum@rmdes.net

Project Description: 01-BAR-001

City/State Collected: Los Angeles CA

Please Circle: (PT) MT CT ET

Phone: 925-683-8177

Client Project # 01-BAR-001

Lab Project # RMDENVPHCA-LAPROJECT

Collected by (print): P. Gomez-Birenbaum

Site/Facility ID #

P.O. #

Collected by (signature): Pgo'b

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Cam17 by 6020 4ozClr-NoPres	DROCAER TPHs d/g 4ozClr-NoPres	GROCA 40ml/NaHSO4/Syr/MeOH	V8260 40ml/NaHSO4/Syr/MeOH	dry weight 4ozClr-NoPres	water GROCA 40mlAmb HCl	water V8260 40mlAmb-HCl	Remarks	Sample # (lab only)
GW-6-4		SS	4	11/13/20	753	4									
GW-6-5		SS	5	↓	756	↓									
GW-6-Comp		SS	—	—	—	—	X	X						Comp 1-5	-07
GW-6		~~GW~~ SS	—	11/13/20	1326	3						X	X		-19
GW-7-1		SS	1	11/12/20	1634	4									
GW-7-2		SS	2		1638										
GW-7-3		SS	3		1644				X	X					-20
GW-7-4		SS	4		1650										
GW-7-5		SS	5		1654										
GW-7-Comp		SS	—	—	—	—	X	X						Comp 1-5	-08 -04

Analysis / Container / Preservative

Chain of Custody Page 5 of 7

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # ~~L1290755~~

Table # L1290638

Acctnum: RMDENVPHCA

Template: T177364

Prelogin: P808464

PM: 546 - Jared Starkey

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:		
Relinquished by: (Signature) Pgo'b	11/12/20	1700	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.8-1.4 °C Bottles Received: 21
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Carol Kemp	Date: 11/16/20 Time: 9:10

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

RMDENVPHCA Relogs L1286255

R5

Please relog for STLC Lead:
L1286255-08

Relog for STLC Chromium:
L1286255-01
L1286255-04
L1286255-06

Time estimate: oh **Time spent:** oh

Members

JS Jared Starkey (responsible)

ATTACHMENT E
Residential Indoor Air Screening Levels

Table E-1

Residential Indoor Air Screening Levels

5601 – 5643 Santa Monica Boulevard

Los Angeles, California

Below estimates GW Risk-Based Cleanup Goal from Residential Indoor Air DTSC SL

					1st Floor	2nd Floor	3rd Floor
					Garage	Garage	Residential
GW PCE	GW to IA AF	Conversion Factor	H	Interunit AF[1]	Indoor Air	Indoor Air	Indoor Air
ug/m^3	unitless	L/m^3	unitless	unitless	ug/m^3	ug/m^3	ug/m^3
63.57	0.001	1,000	0.72	0.10	46	4.60	0.46

Notes:

[1]Interunit attenuation factor (AF) based on The Center for Energy and Environment's *Reduction of Environmental Tobacco Smoke Transfer in Minnesota Multifamily Buildings Using Air Sealing and Ventilation Treatments* dated November 2004.

GW	groundwater
DTSC	Department of Toxic Substances Control
SL	screening level
PCE	tetrachloroethene
IA	indoor air
AF	attenuation factor
H	Henry's Law constant
ug/m^3	micrograms per cubic meter
L/m^3	liters per cubic meter