Attachment 10. Risk Management Plan

AEI Consultants
Environmental & Engineering Services

February 14, 2022

RISK MANAGEMENT PLAN

Property Identification:
Eastmoor Residential Development
493 Eastmoor Avenue
Daly City, California 94015

AEI Project No. 454373

Prepared for:
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Environmental & Engineering Due Diligence

Site Investigation & Remediation

Energy Performance & Benchmarking

Industrial Hygiene

Construction Consulting

Construction, Site Stabilization & Stormwater Services

Zoning Analysis Reports & ALTA Surveys

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AEI Consultants

February 14, 2022

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Subject: **Risk Management Plan**
Eastmoor Residential Development
493 Eastmoor Avenue
Daly City, California 94015
AEI Project No. 454373

1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this Risk Management Plan (RMP) for the proposed development of the property at 943 Eastmoor Avenue in Daly City, California ("the Site"). Due to prior environmental conditions of the Site and the requirements of case closure of the historic Leaking Underground Storage Tank (LUST) case at the property, development activities at the Site are subject to review and oversight by the San Mateo County Environmental Health (SMCEH).

The SMCEH has indicated they will require a Risk Management Plan (RMP) document as part of their review and consideration the planned development. This RMP applies to subsurface disturbances at the Site related to the planned redevelopment activities. The purpose of this RMP is to:

- Assess and communicate the presence of contaminants of potential concern (COPCs) that are known or may potentially exist in subsurface media at the Site.
- Provide protocols for appropriate soil management procedures, as it relates to COPCs.
- Provide measures to mitigate environmental risks to those who may encounter COPCs (such as on-site workers) during on-site soil excavation.
- Provide for the proper management of previously unknown environmental conditions if identified during excavation activities at the Site.
- Provide measures to address environmental risks related to the future use of the Site, after the excavation activities and Site redevelopment have been completed.

This RMP is not intended to replace federal, state, or local regulations dictating the handling of contaminated media or regulations addressing worker exposure including Federal and California Occupational Safety and Health Administration (OSHA) training and worker protection rules and regulations, Code of Federal Regulations (CFR) Title 29, Part 1910.120 and California Code of Regulations (CCR) Title 8, § 5192.

2.0 SITE DESCRIPTION

2.1 Current Site Description

The approximately 0.446-acre Site is located at 493 Eastmoor Avenue, in a commercial and residential area of Daly City, California. Although no structures currently occupy the Site, much of the Site is covered by asphalt and concrete pavement. The Site location map is depicted on Figure 1, and a Site map is included herein as Figure 2.

2.2 Geology and Hydrogeology

Subsurface conditions observed during previous subsurface investigations at the Site (Conestoga-Rovers & Associates [CRA], 2008 and AEI, 2021) generally consisted of sandy gravel, sand, and silty sand to the maximum depth encountered of 9.5 feet below ground surface (bgs).

Based on information reviewed as part of the 2020 Phase I Environmental Site Assessment (ESA) by AEI (AEI, 2020), the Site is underlain by marine and continental Pleistocene deposits approximately 200 feet thick consisting of loose or friable, well-sorted, fine to medium-grained sand with subordinate gravel, sandy silt, and clay, underlain by bedrock. Groundwater is greater than 109.5 feet bgs, and the direction of groundwater flow beneath the Site and the vicinity is inferred to be toward the northeast (CRA, 2008).

2.3 Site History

Based on information reviewed (AEI, 2020), the Site was developed as agricultural land by 1946. By 1960, the Site had been developed as a Shell-branded gasoline service station. Gasoline service station operations at the Site largely ceased in 2003, and on-site structures demolished by 2004. The Site has primarily remained vacant since 2004 with the exception of active remediation activities conducted at the Site from approximately 2004 through 2009 (see Section 2.4).

2.4 Regulatory Background and Environmental Conditions

A release of gasoline from an underground storage tank (UST) was discovered at the Site on September 6, 2001. During September and October 2003, approximately 1,224 cubic yards of contaminated soils were excavated from the Site and transported off-site for disposal. On September 25, 2003, three 10,000-gallon gasoline single-walled fiberglass USTs and associated piping were removed from the Site. On November 5, 2004, an additional 1,000-gallon UST that had been filled with concrete was removed from the Site.

The installation of a soil vapor extraction (SVE) system consisting of seven vapor extraction wells was completed at the Site on January 14, 2005. The SVE system operated from March 24, 2005 to December 27, 2006. An estimated 4,733 pounds of total petroleum hydrocarbons as gasoline (TPH-g), 128 pounds of benzene, and 2.69 pounds of methyl-tert-butyl ether (MTBE) were removed during the approximately 8,000 operational hours of the SVE system. Gasoline constituent concentrations in the SVE system influent decreased by up to three orders of magnitude during system operation, and significant rebound was not observed in the influent when the system was shut off between May and August 2006. Additionally, confirmation sampling conducted in May 2007 confirmed significant reductions of gasoline constituents in soil (CRA, 2008). However, residual concentrations remained in soil, including TPH-g; benzene, toluene, ethylbenzene, and xylenes (collectively known as BTEX); MTBE; and tert butyl alcohol (TBA), particularly near former UST areas (CRA, 2008 and SMCEH, 2009)

On November 10, 2009, the SMCEH issued a case closure letter to Shell Oil Products US, which confirmed the completion of investigation and corrective action at the Site and that no further action regarding the petroleum release(s) was required (SMCEH, 2009). The closure letter cited residual soil impacts at the Site

and, as such, indicated a proposed change in land use or proposed soil removal activity at or in close proximity to the Site required submittal to SMCEH for review.

In anticipation of the planned development, AEI performed a focused subsurface investigation of the property in 2020 (AEI, 2021). As part of the investigation, soil and soil vapor samples were collected at several on-site borings (SB-1/SV-1 through SB-7/SV-7; see Figure 2). Groundwater was not collected and analyzed as it is not expected to be encountered as part of the development activities. Borings were advanced at selected locations throughout the Site footprint at the approximate locations as depicted on Figure 2. Tables summarizing the investigation data are included herein as Table 1 through Table 4, and corresponding analytical results are provided in Appendix A. To provide context to the data and considering the planned redevelopment for mixed-use (see Section 4.0), the analytical results were compared to San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for the residential, commercial/industrial, and construction worker exposure scenarios, as applicable. A summary of the investigation findings is presented below:

Soil:

- Soil samples were collected from seven boring locations (SB-1 through SB-7; see Figure 2) and analyzed for total petroleum hydrocarbons (TPHs), volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), and metals.
- Residual concentrations of TPH-g, TPH in the diesel range (TPH-d), TPH in the motor oil range (TPH-mo), BTEX compounds, and naphthalene were detected at concentrations significantly below applicable ESLs. Other VOCs detected, specifically n-propyl benzene, 1,2,4-trimethylbenzene, 1,2,3-trimethylbenzene, and 1,3,5-trimethylbenzene, do not have established ESLs. Remaining VOCS analyzed were not detected above their respective laboratory reported detection limits.
- Several CAM 17 metals were detected above laboratory reporting limits in each of the seven soil samples analyzed. However, with the exception of arsenic detected at location SB-1, the concentrations detected were either below their respective ESLs or consistent with typical background concentrations in the Bay Area (Bradford, G.R., et. al., 1996 and Duvergé, 2011). The concentration of 19.6 mg/kg at boring SB-1 slightly exceeds the estimated maximum background concentration of 11 mg/kg (Duvergé, 2011).
- Benzo(a)pyrene was detected in one of the seven samples collected and analyzed, observed at a concentration of 0.16 mg/kg. The detected concentration slightly exceeds the residential ESL for benzo(a)pyrene of 0.11 mg/kg, but was below the commercial/industrial ESL of 2.1 mg/kg and construction worker ESL of 10 mg/kg. Remaining SVO\CS analyzed were either detected at concentrations below applicable ESLS or were not detected above their respective laboratory reported detection limits.

Soil Gas:

- Soil gas samples were collected from seven boring locations (SV-1 through SV-7; see Figure 2) and analyzed for VOCs and the fixed gases oxygen, carbon dioxide, and helium.
- Benzene was detected in three of the seven samples collected and analyzed, observed at concentrations ranging from 0.747 to 626 micrograms per cubic meter ($\mu g/m^3$). The maximum detected concentration of 626 $\mu g/m^3$ detected in sample SV-7 exceeds the residential and commercial/industrial ESLs of 3.2 $\mu g/m^3$ and 14 $\mu g/m^3$, respectively, as well as Low-Threat Closure Policy (LTCP; 2012a) criteria assuming no bioattenuation zone. However, concentrations detected are significantly below LTCP criteria assuming a bioattenuation zone (85,000 $\mu g/m^3$ residential and 280,000 $\mu g/m^3$ commercial/industrial).

- Ethylbenzene was detected two of the seven samples collected and analyzed, observed at concentrations of 1.17 and 38.2 µg/m^3 in samples SV-2 and SV-7, respectively. The detected concentration of 38.2 µg/m^3 slightly exceeds the residential ESL of 37 µg/m^3, but is significantly below the commercial/industrial ESL as well as LTCP policy irrespective of the presence of a bioattenuation zone.
- Trichloroethylene (TCE) was detected in one of the seven samples collected and analyzed, observed at a concentration of 64.8 µg/m^3 in sample SV-5. The detected concentration exceeds its residential ESL 16 µg/m^3, but is below its commercial/industrial ESL of 100 µg/m^3.
- Remaining VOCs analyzed were either detected at concentrations below applicable ESLS or were not detected above their respective laboratory reported detection limits.
- Oxygen was observed at concentrations ranging from 12.3% to 22%, indicating that aerobic conditions exist in the subsurface at the Site and the presence of a bioattenuation zone.
- Carbon dioxide was observed at concentrations ranging from 0.718% to 7.98%, with a maximum concentration of carbon dioxide observed in sample SV-7, collected at 9 feet bgs. The relatively elevated concentration of carbon dioxide suggests that petroleum hydrocarbon degradation is occurring at the Site.
- Helium, used for leak detection, was not detected at a detection limit of 0.1% in the samples collected and analyzed. As such, the soil gas sample results are deemed valid.

3.0 CONTAMINANTS AND AREAS OF POTENTIAL CONCERN

3.1 Contaminants of Potential Concern

Based on their detections above ESLs, arsenic and benzo(a)pyrene in soil and benzene, ethylbenzene, and TCE in soil gas are considered the COPCs for the Site. Though below ESLs, TPH and related VOCs will also be retained as COPCs for the Site based on its historic use as a gasoline service station and residual contamination documented in soil at the time of case closure. No other COPCs have been identified at the Site.

3.2 Areas of Potential Concern

Areas of potential concern at the Site include areas of significant historic Site features such as former UST location as well as areas wherein COPCs were detected above applicable ESLs (e.g., SB-1, SB-5, SB-6, and SB-7; see Figure 2). Additionally, it is possible that localized impacted soil above referenced screening levels is present at the Site and as of yet unidentified impacts could be revealed during forthcoming earthwork that could pose a risk to construction workers.

4.0 PROPOSED REDEVELOPMENT

The property is slated for residential development as a 7-story mixed-use apartment building. The proposed structure would be comprised of approximately 1,200 square feet of street level retail/office space on the ground level at the northeast corner of the Site; residential common space (e.g., mail room and lobby) at the northeast corner of the Site with parking areas comprising the remaining footprint of the second level; and a total of 72 dwelling units and residential common areas (e.g., laundry and reading rooms) on the remaining upper levels. The residential common space on the second level will generally overlie the street level retail/office space. Due to varying grades at the Site, the proposed parking areas on the "second level" will be the first building level at those portions of the proposed building. Excavation of the Site will be conducted as needed for an elevator pit and planned foundational elements such as grade beams, utilities, etc., taking into account the varying grade changes at the Site. The estimated depth

to groundwater at the Site is greater than 109.5 feet bgs; therefore, groundwater is not expected to be encountered during development activities. The current development plans are provided in Appendix B.

5.0 RISK MANAGEMENT MEASURES

5.1 RMP Applicability

This RMP presents protocol for the following construction activities that may encounter COPCs, including the following:

- Removal of existing foundations, utility lines, and other surfacing;
- General earthwork such as excavation;
- Installation of utility corridors; and
- Rough grading.

Contractors and their subcontractors shall follow the protocols presented in this RMP while performing the above activities at the Site. Contractors and their subcontractors are responsible for the health and safety of their employees and are required to prepare their own Site-specific Health and Safety Plan (HSP) including, at a minimum, the elements identified in Section 5.3, below.

5.2 Pre-Construction Planning and Notification

Prior to the start of any construction activity that involves below ground work (e.g., foundation removal, subsurface utility removal, or excavating), the Owner shall provide information regarding Site risk management procedures (i.e., a copy of this RMP) to the General Contractor and the General Contractor shall provide this RMP to all relevant subcontractors for their review and acknowledgement, likewise for subsequent tier subcontractors.

5.3 Health and Safety

The General Contractor will prepare a HSP for the development project. At a minimum, the HSP should include:

- A description of proper entry to the Site and all work activities to be conducted at the Site.
- A list of project contacts including the Health and Safety Officer (HSO).
- A list of hazardous materials information.
- Emergency information, including the location of the nearest emergency hospital location.
- Identification of on-site health and safety hazards and hazard analysis.
- Exposure prevention, safety requirements, hazard exposure guidelines, and safe work practices.
- Safety training procedures and guidelines.
- Levels of personal protective equipment (PPE) needed.
- Waste handling procedures.

The purpose of a HSP is to inform all field personnel of proper safety procedures and potential health risks while on-site. All project personnel should familiarize themselves with the HSP and adhere to its established procedures and recommendations. A copy of the HSP should be kept on-site and made available to all personnel. The HSP should be updated if on-site conditions change. The General Contractor will be responsible for preparing and implementing the safety procedures identified in the HSP. Implementing the HSP will minimize potential health risks to on-site construction workers and the general public.

Each contractor shall be responsible for the health and safety of their own workers, as required by Cal-OSHA, including but not limited to preparation of their own HSP and injury and illness prevention plan (IIPP). The purpose of these documents is to provide general guidance relating to the work hazards that may be encountered during each phase of Site construction activities. Contractors are also required to determine the requirements for worker training, based on the level of expected contact to potentially impacted soil and/or groundwater associated with the contractor's activities and locations with respect to COPCs described in Section 3.1. The HASP(s) will contain provisions for limiting and monitoring chemical exposure to construction workers, chemical and non-chemical hazards, emergency procedures, and standard safety protocols.

5.4 Soil Management

5.4.1 Soil Handling Procedures

The proposed construction activities, including grading, will disturb on-site soils and may create soils that will be managed on-site or potentially exported off-site. Based on the available soil sampling data, it is not anticipated that significantly impacted soils will be encountered during the earth moving activities at the Site. Though slight exceedances of arsenic and benzo(a)pyrene were detected above ESLs, the proposed development will cover the entire Site footprint and, as such, the direct contact exposure pathway to the future residents who will occupy the planned building would be considered incomplete. As such, excavated soils can be re-used on-site as needed, provided no additional impacts are identified (see Section 5.4.2 and 5.6). Surplus soil excavated from the Site slated for off-site disposal will be handled as described in Section 5.4.3 below.

5.4.2 Field Screening

Soil may be field screened by the Environmental Consultant in areas of potential environmental impact during demolition and excavation work on an as needed basis to assess whether petroleum hydrocarbon impacted soil may be present. At this time, field screening is not anticipated; however, the Environmental Consultant will be notified if potentially petroleum hydrocarbon impacted soil or other previously unidentified conditions as detailed in Section 5.6 are identified through visual and olfactory observation. Should any field screening or inspections performed by the Environmental Consultant identify potentially petroleum hydrocarbon impacted soil or other previously unidentified conditions, analytical testing will be performed. Significantly impacted soils (i.e., above applicable residential ESLs) identified as such by analytical testing performed by the Environmental Consultant, shall be handled and managed in conformance with and by OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) trained personnel. Soils identified as impacted shall not be re-used on-site.

5.4.3 Soil Segregation and Stockpile Management

Excavated soils from the Site will either be loaded directly into trucks and removed from the Site for landfill disposal based on existing soil analytical data or stockpiled on-site for further testing if required by the receiving landfill.

If stockpiled on-site, all excavated soils will be stockpiled at the Site in a secure location, segregated as appropriate, maintained to prevent excessive dust and to prevent off-site soil migration due to wind and rain erosion, and placed away from storm drains and surface-water drainage courses to prevent potential runoff. Stockpiles will be moistened or covered with 10-mil polyethylene sheeting as needed for purposes of dust mitigation.

Potentially petroleum hydrocarbon impacted soil or other previously unidentified conditions as detailed in Section 5.6 identified through visual and olfactory observation should be segregated from other stockpiled

soils. Stockpiles of potentially impacted soil will be placed on as well as covered with 10-mil polyethylene sheeting (e.g., in compliance with Bay Area Air Quality Management District [BAAQMD] Regulation 8-40).

5.4.4 Off-site Soil Disposal

Soil to be disposed off-site will be profiled for waste characterization based on samples already collected, further in place testing, or by stockpiling the soil and re-sampling, if required by the receiving landfill or facility. Based on soil sampling conducted to date, it is expected soils excavated from the Site can be disposed as a non-hazardous waste and may be acceptable for use as "clean fill" as may be determined by the accepting facility.

Soil profiled as non-hazardous will be transported and disposed at a licensed Class II/III landfill. Soil classified as California hazardous waste will be transported either out of state to an appropriate licensed facility or to a Class I facility in California. Soil classified as Federal hazardous waste, if any, will be transported to a Class I RCRA facility. Additional segregation of excavated soil may be conducted by the excavation contractor (e.g., "clean" soil), depending upon off-site facility acceptance criteria. Soil transporters and specific disposal locations will be identified prior to construction and summarized in the RMP Implementation Report (see Section 7.0).

5.4.5 Soil Sampling

If soil samples are needed during the work, the Environmental Consultant will collect soil samples utilizing a slide hammer fitted with 2-inch diameter 6-inch stainless steel sleeves to obtain a sample, or alternative industry accepted sampling practices. Soil intervals saved for analysis will be immediately kept in the sampling sleeves, with each end covered with polyethylene sheeting and tight-fitting plastic caps, labeled, placed in re-sealable plastic bags, and placed in a pre-chilled insulated container and prepared for transport and analysis using standard chain of custody protocol. Soil samples collected for analysis will be sealed and cooled as soon as feasible to minimize potential volatilization. All samples will be maintained in a locked vehicle or in direct observation at all times. The Environmental Consultant will generally follow regulatory methods for collecting the soil samples and preparing them for analysis and will submit all soil samples to a California certified laboratory.

If needed, the Environmental Consultant will perform sampling of stockpiled soil as appropriate for acceptance at appropriate off-site "fill sites" or for landfill disposal. Soil samples for waste characterization purposes will be collected and analyzed according to the profiling requirements of the fill site or disposal facility. Soil profiling criteria depends on the proposed landfill location. These procedures should be established by the excavation contractor and coordinated with the proposed landfills prior to initiating soil excavation. Typical soil profiling requirements are one four-point composite sample per 250 cubic yards to be disposed, for the initial 1,000 cubic yards.

The profiling of the waste and surplus soil is typically required by all facilities considering acceptance of "clean" soil and for impacted soil to determine proper disposal methods, verify that the waste meets all acceptance criteria of the facility, and ensure compliance with all federal, state, and local regulations. Characterization information will be documented on profile forms provided by the off-site facility. The General Contractor will coordinate with the Environmental Consultant regarding all off-site soil disposal activities.

5.4.6 Import Criteria

If soils are to be imported to the Site, an evaluation of import materials brought to the Site will be conducted to ensure such fill meets the geotechnical and environmental requirements for the Site. To minimize the potential introduction of impacted fill onto the Site, all selected sources of import fill shall have adequate documentation or certification to verify that the fill source is appropriate for the Site prior to delivery of

such soil to the Site. Acceptable documentation would include detailed information on previous land use of the fill source, any Phase I Environmental Site Assessments performed and the findings, and the results of any analytical testing performed. If no documentation is available, the documentation is inadequate, or if no analytical testing has been performed, samples of the potential fill material will be collected and analyzed prior to delivery of such soil to the Site. The analyses will be based on the fill source and knowledge of the previous land use. The sample frequency for potential fill material be conducted in accordance with that outlined in the *Information Advisory on Clean Imported Fill Material* by the Department of Toxic Substances Control (DTSC) dated October 2001. Sampling will be conducted as described in Section 5.4.5 above. No fill material will be accepted if contaminant levels exceed applicable residential ESLs and/or regional background concentrations.

5.5 Groundwater Management

Groundwater is not anticipated to be encountered during construction activities. However, if groundwater is encountered in quantities that need to be pumped and removed from excavations, such groundwater would need to be profiled for proper off-site disposal or discharged under permit to the local sanitary sewer system and/or storm sewer in accordance with best practices and applicable regulations. A settling tank, or other treatment as necessary, may be used to achieve the necessary discharge requirements. All permitting and regulatory requirements shall be followed prior to discharge or off-site disposal.

5.6 Unknown Conditions

If an UST, UST related piping, former wells, significantly impacted soils (indicative by soil staining and suspicious odors), sumps, or underground vaults are discovered during soil excavation the following work shall be conducted:

- Stop all activities in proximity to the subsurface structure or condition of concern.
- Cover the area with plastic sheeting, and segregate the work area with safety cones or safety tape.
- Notify appropriate Project Contacts for inspection and follow up procedures (see Section 6.0).

5.7 Construction Impact Mitigation Measures

During construction activities, measures will be taken by contractors to minimize construction related impacts. The construction impact mitigation measures are described below.

5.7.1 Site Control

The General Contractor shall implement Site control procedures to prevent unwanted public access and control the flow of personnel, vehicles, and materials in and out of the Site while working with potentially contaminated materials. In addition, Site control measures will help control the spread of COPCs from the Site, if they are present. Site control measures to be implemented by the General Contractor include, but are not limited to:

- Fencing the Site perimeter, including installation of construction fence screen.
- Controlling access and egress at selected locations.
- Posting signs at all Site entrances.
- Instructing visitors to sign in at the project support area.

5.7.2 Equipment Decontamination

The General Contractor shall establish and implement decontamination procedures to reduce the potential for construction equipment and vehicles to release potentially impacted soil onto public roadways or other inadvertent off-site transfer. At a minimum, contractors shall place gravel at all Site access points and remove excess soil from construction equipment using dry methods (e.g., brushing or scraping) prior to moving the equipment to off-site locations.

5.7.3 Personal Protective Equipment

Contractors shall use PPE, including appropriate clothing, to isolate workers from COPCs and physical hazards. The appropriate contractor shall evaluate the level of PPE and modify the level of PPE, if warranted, based upon conditions encountered at the Site and/or type of work activity in accordance with their own HSP (see Section 5.3). The minimum level of protection for workers coming into direct contact with potentially contaminated materials is Level D, as described below:

- Coveralls or similar construction work clothing;
- Reflective safety vests;
- Steel-toed boots;
- Hard hat;
- Work gloves, as necessary;
- Safety glasses, as necessary; and
- Hearing protection, as necessary.

5.7.4 Dust Control

Mitigation measures to minimize the creation and dispersion of dust during soil handing and earthwork will include, but not be limited to, the following measures:

- Exposed on-site soils to be moistened twice a day to prevent visible airborne dust.
- Moistening of all soils during truck loading for disposal or off-haul purposes.
- Application of water while grading, excavating, and loading, as needed.
- If visible dust is present, conducting dust suppression activities such as soil moistening.
- Covering stockpiles with 10-mil polyethylene sheeting (or equivalent).
- Limiting vehicle speeds to five-miles per hour on unpaved portions of the Site.
- Covering all disposal trucks and/or off haul trucks with a tarpaulin and rinsing of truck tires before leaving the Site.
- Minimizing drop heights while loading/unloading soil.
- On-site soil disturbance and/or loading actives will be suspended if winds exceed 20 miles per hour.
- Dust suppression shall not produce excess storm water and runoff.

6.0 NOTIFICATIONS AND REPORTING

6.1 Notifications

The Owner, the General Contractor, Environmental Consultant, and SMCEH shall be notified immediately of the discovery of COPCs (via field screening, observations, or analytical results) or other conditions of potential environmental concern. If analytical testing identifies COPCs above applicable residential screening levels, the Environmental Consultant shall notify the Owner, General Contractor, and SMCEH. If such discovery or conditions require notification to other contractors or subcontractors, the General Contractor shall make such notifications.

6.2 Project Contacts

Relevant project contacts for notifications, including in the case of discovery of COPCs or other conditions of potential environmental concern, include the following:

- **Owner/Developer:**
  Eastmoor Multifamily, LP, Attn: Mark Hirth
  470 South Market Street
  San Jose, California 95113
  Phone: 408-292-7841

- **Environmental Consultant:**
  AEI Consultants, Attn: Veronica Statham, P.E.
  2500 Camino Diablo
  Walnut Creek, CA 94597
  Phone: 925-746-6085

- **Regulator:**
  San Mateo County Local Oversight Program, Attn: Jacob Madden
  2000 Alameda De Las Pulgas, Suite 100
  San Mateo, CA 94403
  Phone: 650-399-5959

- **General Contractor:**
  Core General Contractor, Inc. d.b.a. CORE Builders
  470 South Market Street
  San Jose, CA 95113
  Phone: 408-292-7841

7.0 COMPLETION REPORTING

The Environmental Consultant will prepare a RMP Implementation Report upon completion of excavation and earthwork performed per the RMP. The report will include a summary of the work conducted, tables summarizing any analytical data generated as part of the work, and a Site map showing areas of excavation/fill and sample locations, if any. The report will include appendices with copies of permits, including any dewatering permits, manifests or bills of lading for impacted soil and/or groundwater removed, and laboratory reports for soil and water profiling not previously submitted. The report will also include a certification statement that indicates the activities were performed in accordance with this RMP. The report will be submitted to the SMCEH for review and approval.

8.0 VAPOR INTRUSION MITIGATION

The VOC benzene was detected in soil gas at concentrations above its residential and commercial/industrial ESLs, and the VOCs ethylbenzene and TCE were detected in soil gas at concentrations above their residential ESL but below commercial/industrial ESLs. The elevated concentrations of benzene and ethylbenzene were detected at boring location SB-7/SV-7 at eastern portions of the Site, in an area with proposed commercial retail/office space at the ground level as part of the proposed development. The elevated concentrations of TCE was detected at boring location SB-5/SV-5 at central portions of the Site, in the area of the proposed parking garage.

Maximum concentrations of benzene (626 µg/m^3 and ethylbenzene (38.2 µg/m^3) detected in soil gas were significantly less than the State Water Resources Control Board's LTCP soil gas screening criteria for benzene (85,000 µg/m^3 residential and 280,000 µg/m^3 commercial/industrial) and ethylbenzene (1,100,000

µg/m^3 residential and 3,600,000 µg/m^3 commercial/industrial) in the presence of a bioattenuation zone. The ESL User Guide acknowledges the applicability of the LTCP to screen contaminants at properties with petroleum-related impacts, deemed petroleum vapor intrusion (PVI). The LTCP soil gas screening criteria for the individual compounds themselves is based on an evaluation of human health risks and the LTCP has deemed that certain conditions, if met, would "…assure that exposure to petroleum vapors in indoor air will not pose unacceptable health risks…" (State Water Resources Control Board [SWRCB], 2012b). For petroleum-related VOCs, risk-based screening levels such as ESLs for evaluating risk from vapor intrusion can be overly conservative by not considering biodegradation in Site screening (SWRCB, 2012c). Models and field studies show that bioattenuation of petroleum hydrocarbons in the subsurface is significant (Abreu et al., 2009; API, 2009; Davis, 2009; Lahvis, 2011). Petroleum hydrocarbon VOC concentrations have been shown to attenuate by several orders of magnitude within short vertical distances (e.g., less than 5 feet) in the unsaturated zone due to biodegradation. The hydrocarbon VOC attenuation generally increases by an additional order of magnitude or more when transport across a building foundation to indoor air is also considered (USEPA, 2008).

In addition to the above, commercial retail/office space is the proposed use for the ground level, and the second floor level would be primarily comprised of parking areas with some residential common space (e.g., mail room and lobby) in the area of the building directly overlying the ground level commercial retail/office space. Active ventilation of the parking garage would significantly mitigate the vapor intrusion risk.

Based on the above, it is AEI's professional opinion that the vapor intrusion risk to the proposed future mixed-use development is low, and the presence of the chemicals identified in soil gas do not pose an unacceptable risk to future residential and commercial/industrial users of the Site. As a conservative prophylactic measure, the potential preferential pathway of VOCs to upper, residential levels of the building will be addressed by installing conduit seals at mechanical and electrical conduits that penetrate through the subsurface and enter through upper level residential units throughout the building footprint. Conduit seals will be specified by the mechanical, electrical, and plumbing engineer (MEP) for the project consistent with Class 1 Division 2 hazardous area classifications. Additionally, existing unused utilities will be abandoned and sealed where appropriate as part of redevelopment activities. Newly installed utilities and utility trenches will be sealed at or near the building perimeter using a controlled density fill (CDF) plug to limit vapor migration within the utility trench.

9.0 REFERENCES

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10.0 LIMITATIONS

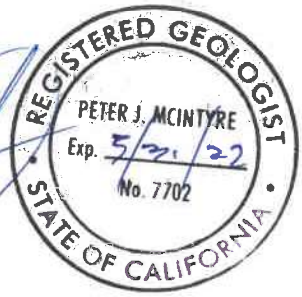
The General Contractor and subcontractors are responsible for review of this RMP prior to commencing work at the Site and for the health and safety of their own employees and subcontractors. The Owner is responsible for review of the provisions of this RMP and for incorporating its guidelines into their project planning and specifications. This document was prepared for the sole use and benefit of Eastmoor Multifamily, LP and their contractors and consultants at the Site. Neither this document, nor any of the information contained herein shall be used or relied upon for any purpose by any person or entities. Where information prepared by others has been provided, AEI cannot be responsible for its accuracy or completeness or for the availability of all information that may be relevant to the preparation of this document.

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of Site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. If collected, the number and location of samples were chosen to provide the requested information, subject to scope of work for which AEI was retained and limitations inherent in this type of work, but it cannot be assumed that they are representative of areas not sampled. This report should not be regarded as a guarantee that no further contamination beyond that which could have been detected within the scope of this investigation is present beneath the Site. Undocumented, unauthorized releases of hazardous material, the remains of which are not readily identifiable by visual inspection and are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation.

If there are any questions, please do not hesitate to contact AEI at 925-746-6000.

Sincerely,
AEI Consultants

Veronica Statham, P.E.
Senior Engineer



Peter McIntyre, P.G.
Executive Vice President

Figures

LEGEND

Map: San Francisco South
Date: 2018
Source: USGS

N

0 1,000 2,000

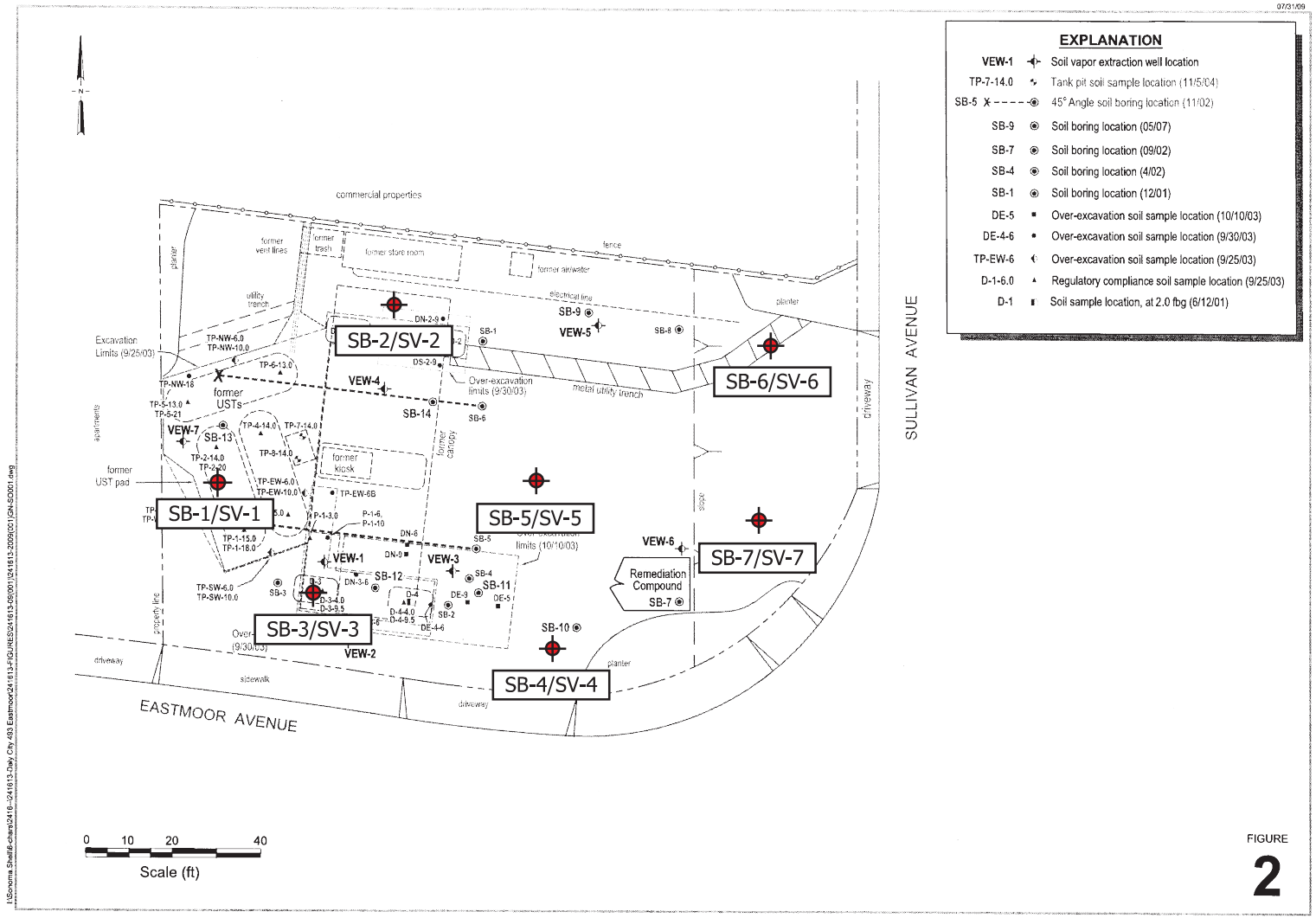
SCALE: 1" = 2,000'

AEI Consultants

SITE LOCATION MAP

493 Eastmoor Avenue
Daly City, California

FIGURE 1
Project No. 454373



LEGEND

Soil and Soil Vapor Sampling Location (11/2020)

Base Map Source: Conestoga-Rovers & Associates (2009)

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SITE MAP

493 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

FIGURE 2
Project No. 430044

Tables

TABLE 1: SOIL SAMPLE DATA SUMMARY - TPHs and VOCs
493 Eastmoor Avenue
Daly City, California

Location ID	Date	Depth (feet bgs)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (C22-C32) (mg/kg)	TPH-mo (C32-C40) (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	n-Propyl Benzene (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,2,3-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	Remaining VOCs (mg/kg)
SB-1	11/19/2020	2.5	<2.90	1.72 J	13.6	16.6	<0.00116	<0.00581	<0.00290	0.00348 J	0.00692 J	<0.00581	<0.00581	<0.00581	<0.00581	<RDL
SB-2	11/19/2020	2.5	<3.01	1.41 J	14.1	13.9	<0.00120	<0.00602	<0.00301	<0.00783	<0.0151	<0.00602	<0.00602	<0.00602	<0.00602	<RDL
SB-3	11/19/2020	2.5	1.06 B J	16.6 J	225	152	<0.00119	<0.00595	0.000981 J	0.00797	<0.0149	<0.00595	0.0049 J	0.00338 J	0.00369 J	<RDL
SB-4	11/19/2020	2.5	<2.78	<4.22	4.76	4.33	0.00285	0.00178 J	<0.00278	0.00281 J	<0.0139	<0.00557	<0.00557	<0.00557	<0.00557	<RDL
SB-5	11/19/2020	2.5	<2.79	<4.22	<4.22	<4.22	<0.00112	<0.00559	<0.00279	<0.00727	<0.0140	<0.00559	<0.00559	<0.00559	<0.00559	<RDL
SB-6	11/19/2020	2.5	1.03 B J	167 J	1780	1170	<0.00107	<0.00534	<0.00267	<0.00694	<0.0134	<0.00534	<0.00534	<0.00534	<0.00534	<RDL
SB-7	11/19/2020	7	<3.54	9.38 J	42.9	58.7	0.00259	<0.00708	0.00607	0.00214 J	0.0166 J	0.00263 J	<0.00708	0.00804	<0.00708	<RDL
Comparison Values:																
ESL Direct Contact - R			430	260	12,000	12,000	0.33	1,100	5.9	580	3.8	--	--	--	--	Various
ESL Direct Contact - C/I			2,000	1,200	180,000	180,000	1.4	5,300	26	2,500	17	--	--	--	--	Various
ESL Direct Contact - CW			1,800	1,100	54,000	54,000	33	4,700	540	2,400	400	--	--	--	--	Various
LTCP - R			--	--	--	--	1.9(s)/2.8(d)	--	21(s)/32(d)	--	9.7(s)/9.7(d)	--	--	--	--	--
LTCP - CW			--	--	--	--	14	--	314	--	219	--	--	--	--	--

Notes:

mg/kg	milligrams per kilogram
<RDL	less than the reported detection limit
bgs	below ground surface
TPH-g	Total Petroleum Hydrocarbons as Gasoline
TPH-d	Carbon range C12-C22 typically associated with total petroleum hydrocarbons as diesel
TPH-mo	Carbon range C22-C40 typically associated with total petroleum hydrocarbons as motor oil
VOCs	Volatile Organic Compounds
--	No established regulatory screening level
B	The same analyte is found in the associated blank
J	The identification of the analyte is acceptable; the reported value is an estimate

Comparison Values:

ESL Direct Contact	Environmental Screening Levels (ESLs) for Direct Exposure for Human Health under Residential (R), Commercial/Industrial (C/I), and Construction/Utility Worker (CW) Exposure Scenarios, from August 2019 ESL Summary Tables, Rev. 2, prepared by the San Francisco Bay Regional Water Quality Control Board.
LTCP	Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health under Residential (R) and Construction/Utility Worker (CW) Exposure Scenarios, from August 2012 Low-Threat Underground Storage Tank Case Closure Policy (LTCP). (s) denotes the value for shallow soils 0 to 5 feet bgs, and (d) denotes the value for deeper soils 5 to 10 feet bgs.

TABLE 2: SOIL SAMPLE DATA SUMMARY - METALS
493 Eastmoor Avenue
Daly City, California

Location ID	Date	Depth (feet bgs)	Sb (mg/kg)	As (mg/kg)	Ba (mg/kg)	Be (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Co (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Ag (mg/kg)	Tl (mg/kg)	V (mg/kg)	Zn (mg/kg)
SB-1	11/19/2020	2.5	2.65	**19.6**	81.2	1.47	<0.538	35.5	22.3	16.2	6.18	0.041 J	0.776 B	47.7	1.48 J	<1.08	<2.15	57.2	55.4
SB-2	11/19/2020	2.5	0.876 J	**2.95**	73.2	0.41	<0.549	49.9	9.33	11	8.36	<0.0439	0.378 J	30.1	1.2 J	<1.10	<2.20	51	32.4
SB-3	11/19/2020	2.5	1.33 J	**3.29**	82.2	0.353	<0.547	73.5	9.51	11.2	6.45	0.024 J	0.224 J	42.6	1.5 J	<1.09	<2.19	60.5	35.3
SB-4	11/19/2020	2.5	0.772 J	**0.674 J**	24.9	0.275	<0.528	28.7	3.69	3.11	2.03	<0.0422	<0.528	20.2	0.836 J	<1.06	<2.11	32.9	14.8
SB-5	11/19/2020	2.5	<2.11	**2.19 B**	25.2	0.273	0.051 J	26.7	3.39	2.87	1.33	<0.0422	0.166 B J	18.6	<2.11	<1.06	<2.11	30.1	14.8
SB-6	11/19/2020	2.5	0.931 J	**2.33 B**	55.7	0.338	0.134 J	34.9	8.03	13.1	18.1	0.0234 J	1.04 B	27.4	<2.06	<1.03	<2.06	52.5	38.9
SB-7	11/19/2020	7	1.33 J	**1.86 B J**	60.9	0.358	<0.588	67.9	10.8	13.1	12.3	<0.0470	0.468 B J	53	1.28 J	<1.18	<2.35	56.5	42.1
Comparison Values:																			
ESL Direct Contact - R			11	0.067	15,000	16	78	--	23	3,100	80	13	390	820	390	390	0.78	390	23,000
ESL Direct Contact - C/I			160	0.31	220,000	230	1,100	--	350	47,000	320	190	5,800	11,000	5,800	5,800	12.00	5,800	350,000
ESL Direct Contact - CW			50	0.98	3,000	27	51	--	28	14,000	160	44	1,800	86	1,700	1,800	3.5	470	110,000
Maximum Background			1.95	11	1,400	2.7	1.7	1,579	46.9	96.4	97.1	0.9	9.6	509	0.43	8.3	12,890	288	236

Notes:

mg/kg	Milligrams per kilogram
<RDL	less than the reported detection limit
bgs	Below ground surface
--	No established regulatory screening level
Bold	Exceeds one or more screening levels

Sb	Antimony	As	Arsenic	Ba	Barium
Be	Berrylium	Cd	Cadmium	Cr	Total Chromium
Co	Cobalt	Cu	Copper	Pb	Lead
Hg	Mercury	Mo	Molybdenum	Ni	Nickel
Se	Selenium	Ag	Silver	Tl	Thallium
V	Vanadium	Zn	Zinc		

Comparison Values:

ESL Direct Contact: Environmental Screening Levels (ESLs) for Direct Exposure for Human Health under Residential (R), Commercial/Industrial (C/I), and Construction/Utility Worker (CW) Exposure Scenarios, from August 2019 ESL Summary Tables, Rev. 2, prepared by the San Francisco Bay Regional Water Quality Control Board.

Max. Background: Typical background conentrations provided here are based on "Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region" by Duvergé, D.J., dated December 2011 for arsenic and "Background Concentrations of Trace and Major Elements in California Soils", by Bradford, G.R., et. al., dated March 1996 for remaining metals.

TABLE 3: SOIL SAMPLE DATA SUMMARY - SVOCs
493 Eastmoor Avenue
Daly City, California

Location ID	Date	Depth (feet bgs)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a) anthracene (mg/kg)	Benzo(b) fluoranthene (mg/kg)	Benzo(k) fluoranthene (mg/kg)	Benzo(g,h,i) perylene (mg/kg)	Benzo(a) pyrene (mg/kg)	Chrysene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)	Remaining SVOCs (mg/kg)
SB-1	11/19/2020	2.5	0.0185 J	<0.0358	<0.0358	<0.0358	<0.0358	<0.0358	<0.0358	<0.0358	0.00983 J	0.011 J	0.293	0.0305 J	0.00765 J	<RDL
SB-2	11/19/2020	2.5	0.0114 J	<0.0366	<0.0366	<0.0366	<0.0366	<0.0366	<0.0366	<0.0366	<0.0366	<0.0366	0.198	<0.0366	<0.0366	<RDL
SB-3	11/19/2020	2.5	0.039	0.00704 J	<0.0364	0.00812 J	<0.0364	0.00667 J	<0.0364	<0.0364	0.0122 J	0.0177 J	0.577	0.0255 J	0.008 J	<RDL
SB-4	11/19/2020	2.5	<0.0351	<0.0351	<0.0351	<0.0351	<0.0351	<0.0351	<0.0351	<0.0351	<0.0351	<0.0351	0.0624	<0.0351	<0.0351	<RDL
SB-5	11/19/2020	2.5	0.0194 J	<0.0352	<0.0352	<0.0352	<0.0352	<0.0352	<0.0352	<0.0352	<0.0352	0.00787 J	0.331	0.00736 J	<0.0352	<RDL
SB-6	11/19/2020	2.5	<0.343	<0.343	0.134 J	0.259 J	0.0797 J	0.0793 J	**0.16 J**	0.154 J	0.457	<0.343	0.171 J	0.247 J	0.385	<RDL
SB-7	11/19/2020	7	0.0152 J	<0.0391	<0.0391	<0.0391	<0.0391	<0.0391	<0.0391	<0.0391	<0.0391	0.00674 J	0.225	0.012 J	<0.0391	<RDL
Comparison Values:																
ESL Direct Contact - R			3,600	18,000	1.1	1.1	11	--	0.11	110	2,400	2,400	3.8	--	1,800	Various
ESL Direct Contact - C/I			45,000	2,300,000	21	21	210	--	2.1	2100	30,000	30,000	17	--	23,000	Various
ESL Direct Contact - CW			10,000	50,000	110	110	910	--	10	9,100	6,700	6,700	400	--	5,000	Various

Notes:

mg/kg	milligrams per kilogram
<RDL	less than the reported detection limit
bgs	below ground surface
SVOCs	Semi Volatile Organic Compounds
--	No established regulatory screening level
J	The identification of the analyte is acceptable; the reported value is an estimate
Bold	Result exceeds a regulatory screening level

Comparison Values:

ESL Direct Contact Environmental Screening Levels (ESLs) for Direct Exposure for Human Health under Residential (R), Commercial/Industrial (C/I), and Construction/Utility Worker (CW) Exposure Scenarios, from August 2019 ESL Summary Tables, Rev. 2, prepared by the San Francisco Bay Regional Water Quality Control Board.

TABLE 4: SOIL GAS SAMPLE DATA SUMMARY
493 Eastmoor Avenue, Daly City, California

Location ID	Date	Depth (feet bgs)	Benzene (µg/m³)	Toluene (µg/m³)	Ethylbenzene (µg/m³)	m&p-Xylene (µg/m³)	o-Xylene (µg/m³)	PCE (µg/m³)	TCE (µg/m³)	Acetone (µg/m³)	Carbon Disulfide (µg/m³)	Chloromethane (µg/m³)	Cyclohexane (µg/m³)	1,4-Dichlorobenzene (µg/m³)	cis-1,2-Dichloroethene (µg/m³)	1,4-Dioxane (µg/m³)
SV-1	12/8/2020	5	<0.639	<1.88	<0.867	<1.73	<0.867	<1.36	<1.07	3.78	2.85	<0.413	<0.689	<1.20	<0.793	<0.721
SV-2	12/8/2020	5	<0.639	6.29	1.17	6.29	2.74	6.25	<1.07	106	<0.622	<0.413	<0.689	<1.20	<0.793	0.926
SV-3	12/8/2020	5	0.747	2.8	<0.867	<1.73	<0.867	<1.36	<1.07	14.2	5.73	0.686	0.919	<1.20	<0.793	<0.721
SV-4	12/8/2020	5	1.65	<1.88	<0.867	<1.73	<0.867	<1.36	<1.07	9.98	9.34	1.08	2.64	<1.20	<0.793	<0.721
SV-5	12/8/2020	5	<0.639	<1.88	<0.867	<1.73	<0.867	5.01	**64.8**	17.8	<0.622	7.21	0.851	<1.20	3.17	2.75
SV-6	12/8/2020	6.5	<0.639	<1.88	<0.867	<1.73	<0.867	2.55	<1.07	13.1	0.691	1.07	<0.689	<1.20	<0.793	<0.721
SV-7	12/8/2020	9	**626**	27	**38.2**	141	58.5	1.93	<1.07	35.4	<0.622	<0.413	1,080	4.84	<0.793	<0.721
	Comparison Values:															
	ESL Vapor Intrusion-R		3.2	10,000	37	3,500*	3,500*	15	16	1,100,000	--	3,100	--	--	280	12
	ESL Vapor Intrusion-C/I		14	44,000	160	15,000*	15,000*	67	100	4,500,000	--	13,000	--	--	1,200	53
	LTCP-No Bioattenuation Zone-R		85	--	1,100	--	--	--	--	--	--	--	--	--	--	--
	LTCP-No Bioattenuation Zone-C/I		280	--	3,600	--	--	--	--	--	--	--	--	--	--	--
	LTCP-With Bioattenuation Zone-R		85,000	--	1,100,000	--	--	--	--	--	--	--	--	--	--	--
	LTCP-With Bioattenuation Zone-C/I		280,000	--	3,600,000	--	--	--	--	--	--	--	--	--	--	--

Notes:

µg/m³	Micrograms per cubic meter
<RDL	less than the reported detection limit
bgs	below ground surface
MEK	Methyl Ethyl Ketone
MTBE	Methyl Tertiary Butyl Ether
PCE	Tetrachloroethene
TCE	Trichloroethene
VOCs	Volatile Organic Compounds
*	Value provided is for total Xylenes
--	No established regulatory screening level
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
Bold	Exceeds one or more screening levels

Comparison Values:

ESL Vapor Intrusion: Environmental Screening Levels (ESLs) for Vapor Intrusion Human Health Risk Levels under Residential (R) and Commercial/Industrial (C/I) Exposure Scenarios, from August 2019 ESL Summary Tables, Rev. 2, prepared by the San Francisco Bay Regional Water Quality Control Board.

TABLE 4: SOIL GAS SAMPLE DATA SUMMARY
493 Eastmoor Avenue, Daly City, California

Location ID	Date	Depth (feet bgs)	Ethanol (µg/m³)	4-Ethyltoluene (µg/m³)	Trichlorofluoro-methane (µg/m³)	Dichlorodifluoro-methane (µg/m³)	Heptane (µg/m³)	n-Hexane (µg/m³)	Methylene Chloride (µg/m³)	2-Butanone (MEK) (µg/m³)	MTBE (µg/m³)	2-Propanol (µg/m³)	Propene (µg/m³)	Tetra-hydrofuran (µg/m³)
SV-1	12/8/2020	5	23	<0.982	2.18	<0.989	<0.818	<2.22	<0.694	<3.69	<0.721	6.22	<0.689	<0.590
SV-2	12/8/2020	5	601 E	1.82	1.36	2.73	<0.818	<2.22	0.788	26.5	0.771	73.5	<0.689	2.49
SV-3	12/8/2020	5	100	<0.982	1.38	2.74	<0.818	<2.22	2.77	<3.69	<0.721	8.04	<0.689	1.06
SV-4	12/8/2020	5	22.8	<0.982	<1.12	2.40	<0.818	<2.22	<0.694	<3.69	<0.721	6.34	3.94	<0.590
SV-5	12/8/2020	5	53.9	<0.982	1.38	2.79	<0.818	<2.22	1.38	<3.69	<0.721	8.6	1.1 B	1.93
SV-6	12/8/2020	6.5	64.5	<0.982	<1.12	2.28	<0.818	<2.22	1.31	<3.69	<0.721	8.68	<0.689	<0.590
SV-7	12/8/2020	9	81.5	6.04	<1.12	1.00	337	1,030	<0.694	<3.69	<0.721	4.08	<0.689	<0.590
	Comparison Values:													
	ESL-Vapor Intrusion-R		--	--	--	--	--	--	34	170,000	360	--	--	--
	ESL-Vapor Intrusion-C/I		--	--	--	--	--	--	410	730,000	1,600	--	--	--
	LTCP-No Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--	--
	LTCP-No Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--	--
	LTCP-With Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--	--
	LTCP-With Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--	--

Notes:

µg/m³	Micrograms per cubic meter
<RDL	less than the reported detection limit
bgs	below ground surface
MEK	Methyl Ethyl Ketone
MTBE	Methyl Tertiary Butyl Ether
PCE	Tetrachloroethene
TCE	Trichloroethene
VOCs	Volatile Organic Compounds
--	No established regulatory screening level
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
Bold	Exceeds one or more screening levels

Comparison Values:

ESL Vapor Intrusion: Environmental Screening Levels (ESLs) for Vapor Intrusion Human Health Risk Levels under Residential (R) and Commercial/Industrial (C/I) Exposure Scenarios, from August 2019 ESL Summary Tables, Rev. 2, prepared by the San Francisco Bay Regional Water Quality Control Board.

TABLE 4: SOIL GAS SAMPLE DATA SUMMARY
493 Eastmoor Avenue, Daly City, California

Location ID	Date	Depth (feet bgs)	1,1,1-Trichloroethane (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 (µg/m^3)	Remaining VOCs (µg/m^3)	Oxygen (%)	Carbon Dioxide (%)	Helium Detected in Sample (%)	Field Helium Shroud (%)	Maximum Allowable Helium Detection in Sample (%)
SV-1	12/8/2020	5	<1.09	<0.982	<0.982	<0.934	<2.70	<RDL	20.9	<0.500	<0.100	26.2	1.31
SV-2	12/8/2020	5	<1.09	3.56	1.48	1.97	4.65	<RDL	21.9	<0.500	<0.100	21.5	1.08
SV-3	12/8/2020	5	<1.09	<0.982	<0.982	<0.934	42.4	<RDL	19.7	1.26	<0.100	30.1	1.51
SV-4	12/8/2020	5	<1.09	<0.982	<0.982	<0.934	2.86 B	<RDL	21.2	0.718	<0.100	34.8	1.74
SV-5	12/8/2020	5	1.32	<0.982	<0.982	<0.934	14.2	<RDL	22.0	<0.500	<0.100	27.7	1.39
SV-6	12/8/2020	6.5	<1.09	<0.982	<0.982	<0.934	9.02	<RDL	18.3	2.98	<0.100	24.4	1.22
SV-7	12/8/2020	9	<1.09	4.12	3.31	5,560	19.1	<RDL	12.3	7.98	<0.100	32.1	1.61
	Comparison Values:												
	ESL-Vapor Intrusion-R		--	--	--	--	--	Various	--	--	--	--	--
	ESL-Vapor Intrusion-C/I		--	--	--	--	--	Various	--	--	--	--	--
	LTCP-No Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--
	LTCP-No Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--
	LTCP-With Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--
	LTCP-With Bioattenuation Zone		--	--	--	--	--	--	--	--	--	--	--

Notes:

µg/m^3	Micrograms per cubic meter
<RDL	less than the reported detection limit
bgs	below ground surface
MEK	Methyl Ethyl Ketone
MTBE	Methyl Tertiary Butyl Ether
PCE	Tetrachloroethene
TCE	Trichloroethene
VOCs	Volatile Organic Compounds
--	No established regulatory screening level
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
Bold	Exceeds one or more screening levels

Comparison Values:

ESL Vapor Intrusion: Environmental Screening Levels (ESLs) for Vapor Intrusion Human Health Risk Levels under Residential (R) and Commercial/Industrial (C/I) Exposure Scenarios, from August 2019 ESL Summary Tables, Rev. 2, prepared by the San Francisco Bay Regional Water Quality Control Board.

Appendix A
Analytical Reports

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 04, 2020

AEI Consultants - CA

Sample Delivery Group:	L1289379
Samples Received:	11/20/2020
Project Number:	430044
Description:	Eastmoor Avenue

Report To: Natasha Budimirovic
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By: Brian Ford

Brian Ford
Project Manager

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SB-1-2.5 L1289379-01 Solid

Collected by: Natasha Budimirovic | Collected date/time: 11/19/20 09:21 | Received date/time: 11/20/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584115	1	12/01/20 08:35	12/01/20 08:45	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1584540	1	12/01/20 09:07	12/02/20 08:13	BMF	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1583319	1	11/29/20 12:57	11/30/20 23:57	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1584921	25	11/19/20 09:21	12/02/20 21:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584153	1	11/19/20 09:21	12/01/20 21:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583815	1	11/30/20 07:52	12/01/20 09:19	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1583806	1	12/01/20 08:28	12/01/20 23:33	JNJ	Mt. Juliet, TN

SB-2-2.5 L1289379-02 Solid

Collected by: Natasha Budimirovic | Collected date/time: 11/19/20 11:28 | Received date/time: 11/20/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584115	1	12/01/20 08:35	12/01/20 08:45	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1583991	1	11/30/20 08:19	12/01/20 08:46	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1583760	1	11/29/20 13:03	12/01/20 08:39	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1584921	25	11/19/20 11:28	12/03/20 00:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584153	1	11/19/20 11:28	12/01/20 21:30	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583815	1	11/30/20 07:52	12/01/20 09:34	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1583806	1	12/01/20 08:28	12/02/20 00:13	JNJ	Mt. Juliet, TN

SB-3-2.5 L1289379-03 Solid

Collected by: Natasha Budimirovic | Collected date/time: 11/19/20 09:36 | Received date/time: 11/20/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584115	1	12/01/20 08:35	12/01/20 08:45	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1583991	1	11/30/20 08:19	12/01/20 08:49	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1583760	1	11/29/20 13:03	12/01/20 08:41	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1584921	25	11/19/20 09:36	12/03/20 01:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584153	1	11/19/20 09:36	12/01/20 21:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583815	10	11/30/20 07:52	12/01/20 12:25	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1583806	1	12/01/20 08:28	12/02/20 00:53	JNJ	Mt. Juliet, TN

SB-4-2.5 L1289379-04 Solid

Collected by: Natasha Budimirovic | Collected date/time: 11/19/20 09:48 | Received date/time: 11/20/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584115	1	12/01/20 08:35	12/01/20 08:45	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1583991	1	11/30/20 08:19	12/01/20 08:51	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1583760	1	11/29/20 13:03	12/01/20 08:44	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1584921	25	11/19/20 09:48	12/03/20 01:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584153	1	11/19/20 09:48	12/01/20 22:08	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583815	1	11/30/20 07:52	12/01/20 09:05	CAG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1583806	1	12/01/20 08:28	12/01/20 23:13	JNJ	Mt. Juliet, TN

SB-5-2.5 L1289379-05 Solid

Collected by: Natasha Budimirovic | Collected date/time: 11/19/20 10:13 | Received date/time: 11/20/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584117	1	12/01/20 08:21	12/01/20 08:31	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1583991	1	11/30/20 08:19	12/01/20 09:02	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1583319	1	11/29/20 12:57	11/30/20 23:59	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1585567	25	11/19/20 10:13	12/03/20 08:13	TPR	Mt. Juliet, TN

SB-5-2.5 L1289379-05 Solid

Collected by	Collected date/time	Received date/time
Natasha Budimirovic	11/19/20 10:13	11/20/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584153	1	11/19/20 10:13	12/01/20 22:27	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1583815	1	11/30/20 07:52	11/30/20 22:36	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1583806	1	12/01/20 08:28	12/01/20 19:32	JNJ	Mt. Juliet, TN

SB-6-2.5 L1289379-06 Solid

Collected by	Collected date/time	Received date/time
Natasha Budimirovic	11/19/20 11:12	11/20/20 09:00

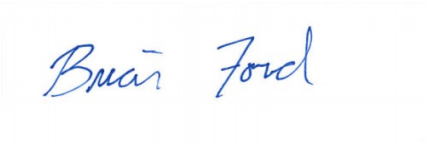
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584117	1	12/01/20 08:21	12/01/20 08:31	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1583991	1	11/30/20 08:19	12/01/20 09:05	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1583319	1	11/29/20 12:57	12/01/20 00:02	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1585567	25	11/19/20 11:12	12/03/20 08:36	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584153	1	11/19/20 11:12	12/01/20 22:46	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1585052	200	12/02/20 06:33	12/03/20 17:39	TJD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1583806	10	12/01/20 08:28	12/02/20 02:13	JNJ	Mt. Juliet, TN

SB-7-7 L1289379-07 Solid

Collected by	Collected date/time	Received date/time
Natasha Budimirovic	11/19/20 10:34	11/20/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1584117	1	12/01/20 08:21	12/01/20 08:31	KBC	Mt. Juliet, TN
Mercury by Method 7471A	WG1583991	1	11/30/20 08:19	12/01/20 09:07	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1583319	1	11/29/20 12:57	12/01/20 00:05	CCE	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015	WG1585567	25	11/19/20 10:34	12/03/20 08:59	TPR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584153	1	11/19/20 10:34	12/01/20 23:05	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1585052	5	12/02/20 06:33	12/02/20 21:28	JN	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1583806	1	12/01/20 08:28	12/01/20 23:53	JNJ	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.



Brian Ford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	12/01/2020 08:45	WG1584115

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0410	J	0.0194	0.0431	1	12/02/2020 08:13	WG1584540

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	2.65		0.586	2.15	1	11/30/2020 23:57	WG1583319
Arsenic	19.6		0.558	2.15	1	11/30/2020 23:57	WG1583319
Barium	81.2		0.0917	0.538	1	11/30/2020 23:57	WG1583319
Beryllium	1.47		0.0339	0.215	1	11/30/2020 23:57	WG1583319
Cadmium	U		0.0507	0.538	1	11/30/2020 23:57	WG1583319
Chromium	35.5		0.143	1.08	1	11/30/2020 23:57	WG1583319
Cobalt	22.3		0.0873	1.08	1	11/30/2020 23:57	WG1583319
Copper	16.2		0.431	2.15	1	11/30/2020 23:57	WG1583319
Lead	6.18		0.224	0.538	1	11/30/2020 23:57	WG1583319
Molybdenum	0.776	B	0.117	0.538	1	11/30/2020 23:57	WG1583319
Nickel	47.7		0.142	2.15	1	11/30/2020 23:57	WG1583319
Selenium	1.48	J	0.822	2.15	1	11/30/2020 23:57	WG1583319
Silver	U		0.137	1.08	1	11/30/2020 23:57	WG1583319
Thallium	U		0.424	2.15	1	11/30/2020 23:57	WG1583319
Vanadium	57.2		0.545	2.15	1	11/30/2020 23:57	WG1583319
Zinc	55.4		0.896	5.38	1	11/30/2020 23:57	WG1583319

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		0.964	2.90	25	12/02/2020 21:22	WG1584921
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*		*12/02/2020 21:22*	WG1584921

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		0.0424	0.0581	1	12/01/2020 21:11	WG1584153
Acrylonitrile	U		0.00419	0.0145	1	12/01/2020 21:11	WG1584153
Benzene	U		0.000542	0.00116	1	12/01/2020 21:11	WG1584153
Bromobenzene	U		0.00105	0.0145	1	12/01/2020 21:11	WG1584153
Bromodichloromethane	U		0.000842	0.00290	1	12/01/2020 21:11	WG1584153
Bromoform	U	J4	0.00136	0.0290	1	12/01/2020 21:11	WG1584153
Bromomethane	U		0.00229	0.0145	1	12/01/2020 21:11	WG1584153
n-Butylbenzene	U		0.00610	0.0145	1	12/01/2020 21:11	WG1584153
sec-Butylbenzene	U		0.00334	0.0145	1	12/01/2020 21:11	WG1584153
tert-Butylbenzene	U		0.00226	0.00581	1	12/01/2020 21:11	WG1584153
Carbon tetrachloride	U		0.00104	0.00581	1	12/01/2020 21:11	WG1584153
Chlorobenzene	U		0.000244	0.00290	1	12/01/2020 21:11	WG1584153
Chlorodibromomethane	U	J4	0.000711	0.00290	1	12/01/2020 21:11	WG1584153
Chloroethane	U		0.00197	0.00581	1	12/01/2020 21:11	WG1584153
Chloroform	U		0.00120	0.00290	1	12/01/2020 21:11	WG1584153
Chloromethane	U		0.00505	0.0145	1	12/01/2020 21:11	WG1584153
2-Chlorotoluene	U		0.00100	0.00290	1	12/01/2020 21:11	WG1584153
4-Chlorotoluene	U		0.000523	0.00581	1	12/01/2020 21:11	WG1584153

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
1,2-Dibromo-3-Chloropropane	U		0.00453	0.0290	1	12/01/2020 21:11	WG1584153
1,2-Dibromoethane	U		0.000753	0.00290	1	12/01/2020 21:11	WG1584153
Dibromomethane	U		0.000871	0.00581	1	12/01/2020 21:11	WG1584153
1,2-Dichlorobenzene	U		0.000494	0.00581	1	12/01/2020 21:11	WG1584153
1,3-Dichlorobenzene	U		0.000697	0.00581	1	12/01/2020 21:11	WG1584153
1,4-Dichlorobenzene	U		0.000813	0.00581	1	12/01/2020 21:11	WG1584153
Dichlorodifluoromethane	U		0.00187	0.00290	1	12/01/2020 21:11	WG1584153
1,1-Dichloroethane	U		0.000570	0.00290	1	12/01/2020 21:11	WG1584153
1,2-Dichloroethane	U		0.000754	0.00290	1	12/01/2020 21:11	WG1584153
1,1-Dichloroethene	U		0.000704	0.00290	1	12/01/2020 21:11	WG1584153
cis-1,2-Dichloroethene	U		0.000852	0.00290	1	12/01/2020 21:11	WG1584153
trans-1,2-Dichloroethene	U		0.00121	0.00581	1	12/01/2020 21:11	WG1584153
1,2-Dichloropropane	U		0.00165	0.00581	1	12/01/2020 21:11	WG1584153
1,1-Dichloropropene	U		0.000940	0.00290	1	12/01/2020 21:11	WG1584153
1,3-Dichloropropane	U		0.000582	0.00581	1	12/01/2020 21:11	WG1584153
cis-1,3-Dichloropropene	U		0.000879	0.00290	1	12/01/2020 21:11	WG1584153
trans-1,3-Dichloropropene	U		0.00132	0.00581	1	12/01/2020 21:11	WG1584153
2,2-Dichloropropane	U	J4	0.00160	0.00290	1	12/01/2020 21:11	WG1584153
Di-isopropyl ether	U		0.000476	0.00116	1	12/01/2020 21:11	WG1584153
Ethylbenzene	U		0.000856	0.00290	1	12/01/2020 21:11	WG1584153
Hexachloro-1,3-butadiene	U		0.00697	0.0290	1	12/01/2020 21:11	WG1584153
Isopropylbenzene	U		0.000494	0.00290	1	12/01/2020 21:11	WG1584153
p-Isopropyltoluene	U		0.00296	0.00581	1	12/01/2020 21:11	WG1584153
2-Butanone (MEK)	U		0.0737	0.116	1	12/01/2020 21:11	WG1584153
Methylene Chloride	U		0.00771	0.0290	1	12/01/2020 21:11	WG1584153
4-Methyl-2-pentanone (MIBK)	U		0.00265	0.0290	1	12/01/2020 21:11	WG1584153
Methyl tert-butyl ether	U	J4	0.000406	0.00116	1	12/01/2020 21:11	WG1584153
Naphthalene	0.00692	J	0.00567	0.0145	1	12/01/2020 21:11	WG1584153
n-Propylbenzene	U		0.00110	0.00581	1	12/01/2020 21:11	WG1584153
Styrene	U		0.000266	0.0145	1	12/01/2020 21:11	WG1584153
1,1,1,2-Tetrachloroethane	U		0.00110	0.00290	1	12/01/2020 21:11	WG1584153
1,1,2,2-Tetrachloroethane	U		0.000807	0.00290	1	12/01/2020 21:11	WG1584153
1,1,2-Trichlorotrifluoroethane	U		0.000876	0.00290	1	12/01/2020 21:11	WG1584153
Tetrachloroethene	U		0.00104	0.00290	1	12/01/2020 21:11	WG1584153
Toluene	U		0.00151	0.00581	1	12/01/2020 21:11	WG1584153
1,2,3-Trichlorobenzene	U		0.00851	0.0145	1	12/01/2020 21:11	WG1584153
1,2,4-Trichlorobenzene	U		0.00511	0.0145	1	12/01/2020 21:11	WG1584153
1,1,1-Trichloroethane	U		0.00107	0.00290	1	12/01/2020 21:11	WG1584153
1,1,2-Trichloroethane	U		0.000693	0.00290	1	12/01/2020 21:11	WG1584153
Trichloroethene	U		0.000678	0.00116	1	12/01/2020 21:11	WG1584153
Trichlorofluoromethane	U		0.000960	0.00290	1	12/01/2020 21:11	WG1584153
1,2,3-Trichloropropane	U		0.00188	0.0145	1	12/01/2020 21:11	WG1584153
1,2,4-Trimethylbenzene	U		0.00183	0.00581	1	12/01/2020 21:11	WG1584153
1,2,3-Trimethylbenzene	U		0.00183	0.00581	1	12/01/2020 21:11	WG1584153
1,3,5-Trimethylbenzene	U		0.00232	0.00581	1	12/01/2020 21:11	WG1584153
Vinyl chloride	U		0.00135	0.00290	1	12/01/2020 21:11	WG1584153
Xylenes, Total	0.00348	J	0.00102	0.00755	1	12/01/2020 21:11	WG1584153
(S) Toluene-d8	*104*			*75.0-131*		*12/01/2020 21:11*	WG1584153
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*12/01/2020 21:11*	WG1584153
(S) 1,2-Dichloroethane-d4	*97.6*			*70.0-130*		*12/01/2020 21:11*	WG1584153

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	1.72	J	0.789	4.31	1	12/01/2020 09:19	WG1583815
C22-C32 Hydrocarbons	13.6		1.43	4.31	1	12/01/2020 09:19	WG1583815
C32-C40 Hydrocarbons	16.6		1.43	4.31	1	12/01/2020 09:19	WG1583815
(S) o-Terphenyl	*67.4*			*18.0-148*		*12/01/2020 09:19*	WG1583815

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0185	J	0.00580	0.0358	1	12/01/2020 23:33	WG1583806
Acenaphthylene	U		0.00505	0.0358	1	12/01/2020 23:33	WG1583806
Anthracene	U		0.00638	0.0358	1	12/01/2020 23:33	WG1583806
Benzo(a)anthracene	U		0.00632	0.0358	1	12/01/2020 23:33	WG1583806
Benzo(b)fluoranthene	U		0.00668	0.0358	1	12/01/2020 23:33	WG1583806
Benzo(k)fluoranthene	U		0.00637	0.0358	1	12/01/2020 23:33	WG1583806
Benzo(g,h,i)perylene	U		0.00656	0.0358	1	12/01/2020 23:33	WG1583806
Benzo(a)pyrene	U		0.00666	0.0358	1	12/01/2020 23:33	WG1583806
Bis(2-chlorethoxy)methane	U		0.0108	0.358	1	12/01/2020 23:33	WG1583806
Bis(2-chloroethyl)ether	U		0.0118	0.358	1	12/01/2020 23:33	WG1583806
2,2-Oxybis(1-Chloropropane)	U		0.0155	0.358	1	12/01/2020 23:33	WG1583806
4-Bromophenyl-phenylether	U		0.0126	0.358	1	12/01/2020 23:33	WG1583806
2-Chloronaphthalene	U		0.00630	0.0358	1	12/01/2020 23:33	WG1583806
4-Chlorophenyl-phenylether	U		0.0125	0.358	1	12/01/2020 23:33	WG1583806
Chrysene	U		0.00713	0.0358	1	12/01/2020 23:33	WG1583806
Dibenz(a,h)anthracene	U		0.00994	0.0358	1	12/01/2020 23:33	WG1583806
3,3-Dichlorobenzidine	U		0.0132	0.358	1	12/01/2020 23:33	WG1583806
2,4-Dinitrotoluene	U		0.0103	0.358	1	12/01/2020 23:33	WG1583806
2,6-Dinitrotoluene	U		0.0117	0.358	1	12/01/2020 23:33	WG1583806
Fluoranthene	0.00983	J	0.00647	0.0358	1	12/01/2020 23:33	WG1583806
Fluorene	0.0110	J	0.00583	0.0358	1	12/01/2020 23:33	WG1583806
Hexachlorobenzene	U		0.0127	0.358	1	12/01/2020 23:33	WG1583806
Hexachloro-1,3-butadiene	U		0.0121	0.358	1	12/01/2020 23:33	WG1583806
Hexachlorocyclopentadiene	U		0.0188	0.358	1	12/01/2020 23:33	WG1583806
Hexachloroethane	U		0.0141	0.358	1	12/01/2020 23:33	WG1583806
Indeno(1,2,3-cd)pyrene	U		0.0101	0.0358	1	12/01/2020 23:33	WG1583806
Isophorone	U		0.0110	0.358	1	12/01/2020 23:33	WG1583806
Naphthalene	0.293		0.00900	0.0358	1	12/01/2020 23:33	WG1583806
Nitrobenzene	U		0.0125	0.358	1	12/01/2020 23:33	WG1583806
n-Nitrosodimethylamine	U		0.0532	0.358	1	12/01/2020 23:33	WG1583806
n-Nitrosodiphenylamine	U		0.0271	0.358	1	12/01/2020 23:33	WG1583806
n-Nitrosodi-n-propylamine	U		0.0119	0.358	1	12/01/2020 23:33	WG1583806
Phenanthrene	0.0305	J	0.00712	0.0358	1	12/01/2020 23:33	WG1583806
Pyridine	U		0.0237	0.358	1	12/01/2020 23:33	WG1583806
Benzylbutyl phthalate	U		0.0112	0.358	1	12/01/2020 23:33	WG1583806
Bis(2-ethylhexyl)phthalate	U		0.0454	0.358	1	12/01/2020 23:33	WG1583806
Di-n-butyl phthalate	U		0.0123	0.358	1	12/01/2020 23:33	WG1583806
Diethyl phthalate	U		0.0118	0.358	1	12/01/2020 23:33	WG1583806
Dimethyl phthalate	U		0.0760	0.358	1	12/01/2020 23:33	WG1583806
Di-n-octyl phthalate	U		0.0242	0.358	1	12/01/2020 23:33	WG1583806
Pyrene	0.00765	J	0.00698	0.0358	1	12/01/2020 23:33	WG1583806
1,2,4-Trichlorobenzene	U		0.0112	0.358	1	12/01/2020 23:33	WG1583806
4-Chloro-3-methylphenol	U		0.0116	0.358	1	12/01/2020 23:33	WG1583806
2-Chlorophenol	U		0.0118	0.358	1	12/01/2020 23:33	WG1583806
2,4-Dichlorophenol	U		0.0104	0.358	1	12/01/2020 23:33	WG1583806
2,4-Dimethylphenol	U		0.00936	0.358	1	12/01/2020 23:33	WG1583806
4,6-Dinitro-2-methylphenol	U		0.0813	0.358	1	12/01/2020 23:33	WG1583806
2,4-Dinitrophenol	U		0.0839	0.358	1	12/01/2020 23:33	WG1583806

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Methylphenol	U		0.0108	0.358	1	12/01/2020 23:33	WG1583806
3&4-Methyl Phenol	U		0.0112	0.358	1	12/01/2020 23:33	WG1583806
2-Nitrophenol	U		0.0128	0.358	1	12/01/2020 23:33	WG1583806
4-Nitrophenol	U		0.0112	0.358	1	12/01/2020 23:33	WG1583806
Pentachlorophenol	U		0.00964	0.358	1	12/01/2020 23:33	WG1583806
Phenol	U		0.0144	0.358	1	12/01/2020 23:33	WG1583806
2,4,6-Trichlorophenol	U		0.0115	0.358	1	12/01/2020 23:33	WG1583806
2,4,5-Trichlorophenol	U		0.0122	0.358	1	12/01/2020 23:33	WG1583806
(S) 2-Fluorophenol	*80.4*			*12.0-120*		*12/01/2020 23:33*	WG1583806
(S) Phenol-d5	*75.5*			*10.0-120*		*12/01/2020 23:33*	WG1583806
(S) Nitrobenzene-d5	*55.3*			*10.0-122*		*12/01/2020 23:33*	WG1583806
(S) 2-Fluorobiphenyl	*72.3*			*15.0-120*		*12/01/2020 23:33*	WG1583806
(S) 2,4,6-Tribromophenol	*99.1*			*10.0-127*		*12/01/2020 23:33*	WG1583806
(S) p-Terphenyl-d14	*74.5*			*10.0-120*		*12/01/2020 23:33*	WG1583806

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	12/01/2020 08:45	WG1584115

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		0.0198	0.0439	1	12/01/2020 08:46	WG1583991

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.876	J	0.597	2.20	1	12/01/2020 08:39	WG1583760
Arsenic	2.95		0.569	2.20	1	12/01/2020 08:39	WG1583760
Barium	73.2		0.0935	0.549	1	12/01/2020 08:39	WG1583760
Beryllium	0.410		0.0346	0.220	1	12/01/2020 08:39	WG1583760
Cadmium	U		0.0517	0.549	1	12/01/2020 08:39	WG1583760
Chromium	49.9		0.146	1.10	1	12/01/2020 08:39	WG1583760
Cobalt	9.33		0.0890	1.10	1	12/01/2020 08:39	WG1583760
Copper	11.0		0.439	2.20	1	12/01/2020 08:39	WG1583760
Lead	8.36		0.228	0.549	1	12/01/2020 08:39	WG1583760
Molybdenum	0.378	J	0.120	0.549	1	12/01/2020 08:39	WG1583760
Nickel	30.1		0.145	2.20	1	12/01/2020 08:39	WG1583760
Selenium	1.20	J	0.839	2.20	1	12/01/2020 08:39	WG1583760
Silver	U		0.139	1.10	1	12/01/2020 08:39	WG1583760
Thallium	U		0.433	2.20	1	12/01/2020 08:39	WG1583760
Vanadium	51.0		0.556	2.20	1	12/01/2020 08:39	WG1583760
Zinc	32.4		0.914	5.49	1	12/01/2020 08:39	WG1583760

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		1.00	3.01	25	12/03/2020 00:44	WG1584921
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*12/03/2020 00:44*	WG1584921

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		0.0440	0.0602	1	12/01/2020 21:30	WG1584153
Acrylonitrile	U		0.00435	0.0151	1	12/01/2020 21:30	WG1584153
Benzene	U		0.000563	0.00120	1	12/01/2020 21:30	WG1584153
Bromobenzene	U		0.00108	0.0151	1	12/01/2020 21:30	WG1584153
Bromodichloromethane	U		0.000874	0.00301	1	12/01/2020 21:30	WG1584153
Bromoform	U	J4	0.00141	0.0301	1	12/01/2020 21:30	WG1584153
Bromomethane	U		0.00237	0.0151	1	12/01/2020 21:30	WG1584153
n-Butylbenzene	U		0.00633	0.0151	1	12/01/2020 21:30	WG1584153
sec-Butylbenzene	U		0.00347	0.0151	1	12/01/2020 21:30	WG1584153
tert-Butylbenzene	U		0.00235	0.00602	1	12/01/2020 21:30	WG1584153
Carbon tetrachloride	U		0.00108	0.00602	1	12/01/2020 21:30	WG1584153
Chlorobenzene	U		0.000253	0.00301	1	12/01/2020 21:30	WG1584153
Chlorodibromomethane	U	J4	0.000737	0.00301	1	12/01/2020 21:30	WG1584153
Chloroethane	U		0.00205	0.00602	1	12/01/2020 21:30	WG1584153
Chloroform	U		0.00124	0.00301	1	12/01/2020 21:30	WG1584153
Chloromethane	U		0.00524	0.0151	1	12/01/2020 21:30	WG1584153
2-Chlorotoluene	U		0.00104	0.00301	1	12/01/2020 21:30	WG1584153
4-Chlorotoluene	U		0.000542	0.00602	1	12/01/2020 21:30	WG1584153

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
1,2-Dibromo-3-Chloropropane	U		0.00470	0.0301	1	12/01/2020 21:30	WG1584153
1,2-Dibromoethane	U		0.000781	0.00301	1	12/01/2020 21:30	WG1584153
Dibromomethane	U		0.000904	0.00602	1	12/01/2020 21:30	WG1584153
1,2-Dichlorobenzene	U		0.000512	0.00602	1	12/01/2020 21:30	WG1584153
1,3-Dichlorobenzene	U		0.000723	0.00602	1	12/01/2020 21:30	WG1584153
1,4-Dichlorobenzene	U		0.000843	0.00602	1	12/01/2020 21:30	WG1584153
Dichlorodifluoromethane	U		0.00194	0.00301	1	12/01/2020 21:30	WG1584153
1,1-Dichloroethane	U		0.000592	0.00301	1	12/01/2020 21:30	WG1584153
1,2-Dichloroethane	U		0.000782	0.00301	1	12/01/2020 21:30	WG1584153
1,1-Dichloroethene	U		0.000730	0.00301	1	12/01/2020 21:30	WG1584153
cis-1,2-Dichloroethene	U		0.000884	0.00301	1	12/01/2020 21:30	WG1584153
trans-1,2-Dichloroethene	U		0.00125	0.00602	1	12/01/2020 21:30	WG1584153
1,2-Dichloropropane	U		0.00171	0.00602	1	12/01/2020 21:30	WG1584153
1,1-Dichloropropene	U		0.000975	0.00301	1	12/01/2020 21:30	WG1584153
1,3-Dichloropropane	U		0.000604	0.00602	1	12/01/2020 21:30	WG1584153
cis-1,3-Dichloropropene	U		0.000912	0.00301	1	12/01/2020 21:30	WG1584153
trans-1,3-Dichloropropene	U		0.00137	0.00602	1	12/01/2020 21:30	WG1584153
2,2-Dichloropropane	U	J4	0.00166	0.00301	1	12/01/2020 21:30	WG1584153
Di-isopropyl ether	U		0.000494	0.00120	1	12/01/2020 21:30	WG1584153
Ethylbenzene	U		0.000888	0.00301	1	12/01/2020 21:30	WG1584153
Hexachloro-1,3-butadiene	U		0.00723	0.0301	1	12/01/2020 21:30	WG1584153
Isopropylbenzene	U		0.000512	0.00301	1	12/01/2020 21:30	WG1584153
p-Isopropyltoluene	U		0.00307	0.00602	1	12/01/2020 21:30	WG1584153
2-Butanone (MEK)	U		0.0765	0.120	1	12/01/2020 21:30	WG1584153
Methylene Chloride	U		0.00800	0.0301	1	12/01/2020 21:30	WG1584153
4-Methyl-2-pentanone (MIBK)	U		0.00275	0.0301	1	12/01/2020 21:30	WG1584153
Methyl tert-butyl ether	U	J4	0.000422	0.00120	1	12/01/2020 21:30	WG1584153
Naphthalene	U		0.00588	0.0151	1	12/01/2020 21:30	WG1584153
n-Propylbenzene	U		0.00114	0.00602	1	12/01/2020 21:30	WG1584153
Styrene	U		0.000276	0.0151	1	12/01/2020 21:30	WG1584153
1,1,1,2-Tetrachloroethane	U		0.00114	0.00301	1	12/01/2020 21:30	WG1584153
1,1,2,2-Tetrachloroethane	U		0.000837	0.00301	1	12/01/2020 21:30	WG1584153
1,1,2-Trichlorotrifluoroethane	U		0.000909	0.00301	1	12/01/2020 21:30	WG1584153
Tetrachloroethene	U		0.00108	0.00301	1	12/01/2020 21:30	WG1584153
Toluene	U		0.00157	0.00602	1	12/01/2020 21:30	WG1584153
1,2,3-Trichlorobenzene	U		0.00883	0.0151	1	12/01/2020 21:30	WG1584153
1,2,4-Trichlorobenzene	U		0.00530	0.0151	1	12/01/2020 21:30	WG1584153
1,1,1-Trichloroethane	U		0.00111	0.00301	1	12/01/2020 21:30	WG1584153
1,1,2-Trichloroethane	U		0.000719	0.00301	1	12/01/2020 21:30	WG1584153
Trichloroethene	U		0.000704	0.00120	1	12/01/2020 21:30	WG1584153
Trichlorofluoromethane	U		0.000996	0.00301	1	12/01/2020 21:30	WG1584153
1,2,3-Trichloropropane	U		0.00195	0.0151	1	12/01/2020 21:30	WG1584153
1,2,4-Trimethylbenzene	U		0.00190	0.00602	1	12/01/2020 21:30	WG1584153
1,2,3-Trimethylbenzene	U		0.00190	0.00602	1	12/01/2020 21:30	WG1584153
1,3,5-Trimethylbenzene	U		0.00241	0.00602	1	12/01/2020 21:30	WG1584153
Vinyl chloride	U		0.00140	0.00301	1	12/01/2020 21:30	WG1584153
Xylenes, Total	U		0.00106	0.00783	1	12/01/2020 21:30	WG1584153
(S) Toluene-d8	*104*			*75.0-131*		*12/01/2020 21:30*	WG1584153
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*12/01/2020 21:30*	WG1584153
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*12/01/2020 21:30*	WG1584153

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	1.41	J	0.805	4.39	1	12/01/2020 09:34	WG1583815
C22-C32 Hydrocarbons	14.1		1.46	4.39	1	12/01/2020 09:34	WG1583815
C32-C40 Hydrocarbons	13.9		1.46	4.39	1	12/01/2020 09:34	WG1583815
(S) o-Terphenyl	*63.3*			*18.0-148*		*12/01/2020 09:34*	WG1583815

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0114	J	0.00592	0.0366	1	12/02/2020 00:13	WG1583806
Acenaphthylene	U		0.00515	0.0366	1	12/02/2020 00:13	WG1583806
Anthracene	U		0.00651	0.0366	1	12/02/2020 00:13	WG1583806
Benzo(a)anthracene	U		0.00645	0.0366	1	12/02/2020 00:13	WG1583806
Benzo(b)fluoranthene	U		0.00682	0.0366	1	12/02/2020 00:13	WG1583806
Benzo(k)fluoranthene	U		0.00650	0.0366	1	12/02/2020 00:13	WG1583806
Benzo(g,h,i)perylene	U		0.00669	0.0366	1	12/02/2020 00:13	WG1583806
Benzo(a)pyrene	U		0.00680	0.0366	1	12/02/2020 00:13	WG1583806
Bis(2-chlorethoxy)methane	U		0.0110	0.366	1	12/02/2020 00:13	WG1583806
Bis(2-chloroethyl)ether	U		0.0121	0.366	1	12/02/2020 00:13	WG1583806
2,2-Oxybis(1-Chloropropane)	U		0.0158	0.366	1	12/02/2020 00:13	WG1583806
4-Bromophenyl-phenylether	U		0.0128	0.366	1	12/02/2020 00:13	WG1583806
2-Chloronaphthalene	U		0.00642	0.0366	1	12/02/2020 00:13	WG1583806
4-Chlorophenyl-phenylether	U		0.0127	0.366	1	12/02/2020 00:13	WG1583806
Chrysene	U		0.00727	0.0366	1	12/02/2020 00:13	WG1583806
Dibenz(a,h)anthracene	U		0.0101	0.0366	1	12/02/2020 00:13	WG1583806
3,3-Dichlorobenzidine	U		0.0135	0.366	1	12/02/2020 00:13	WG1583806
2,4-Dinitrotoluene	U		0.0105	0.366	1	12/02/2020 00:13	WG1583806
2,6-Dinitrotoluene	U		0.0120	0.366	1	12/02/2020 00:13	WG1583806
Fluoranthene	U		0.00660	0.0366	1	12/02/2020 00:13	WG1583806
Fluorene	U		0.00595	0.0366	1	12/02/2020 00:13	WG1583806
Hexachlorobenzene	U		0.0130	0.366	1	12/02/2020 00:13	WG1583806
Hexachloro-1,3-butadiene	U		0.0123	0.366	1	12/02/2020 00:13	WG1583806
Hexachlorocyclopentadiene	U		0.0192	0.366	1	12/02/2020 00:13	WG1583806
Hexachloroethane	U		0.0144	0.366	1	12/02/2020 00:13	WG1583806
Indeno(1,2,3-cd)pyrene	U		0.0103	0.0366	1	12/02/2020 00:13	WG1583806
Isophorone	U		0.0112	0.366	1	12/02/2020 00:13	WG1583806
Naphthalene	0.198		0.00918	0.0366	1	12/02/2020 00:13	WG1583806
Nitrobenzene	U		0.0127	0.366	1	12/02/2020 00:13	WG1583806
n-Nitrosodimethylamine	U		0.0542	0.366	1	12/02/2020 00:13	WG1583806
n-Nitrosodiphenylamine	U		0.0277	0.366	1	12/02/2020 00:13	WG1583806
n-Nitrosodi-n-propylamine	U		0.0122	0.366	1	12/02/2020 00:13	WG1583806
Phenanthrene	U		0.00726	0.0366	1	12/02/2020 00:13	WG1583806
Pyridine	U		0.0242	0.366	1	12/02/2020 00:13	WG1583806
Benzylbutyl phthalate	U		0.0114	0.366	1	12/02/2020 00:13	WG1583806
Bis(2-ethylhexyl)phthalate	U		0.0463	0.366	1	12/02/2020 00:13	WG1583806
Di-n-butyl phthalate	U		0.0125	0.366	1	12/02/2020 00:13	WG1583806
Diethyl phthalate	U		0.0121	0.366	1	12/02/2020 00:13	WG1583806
Dimethyl phthalate	U		0.0775	0.366	1	12/02/2020 00:13	WG1583806
Di-n-octyl phthalate	U		0.0247	0.366	1	12/02/2020 00:13	WG1583806
Pyrene	U		0.00711	0.0366	1	12/02/2020 00:13	WG1583806
1,2,4-Trichlorobenzene	U		0.0114	0.366	1	12/02/2020 00:13	WG1583806
4-Chloro-3-methylphenol	U		0.0119	0.366	1	12/02/2020 00:13	WG1583806
2-Chlorophenol	U		0.0121	0.366	1	12/02/2020 00:13	WG1583806
2,4-Dichlorophenol	U		0.0107	0.366	1	12/02/2020 00:13	WG1583806
2,4-Dimethylphenol	U		0.00955	0.366	1	12/02/2020 00:13	WG1583806
4,6-Dinitro-2-methylphenol	U		0.0829	0.366	1	12/02/2020 00:13	WG1583806
2,4-Dinitrophenol	U		0.0855	0.366	1	12/02/2020 00:13	WG1583806

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Methylphenol	U		0.0110	0.366	1	12/02/2020 00:13	WG1583806
3&4-Methyl Phenol	U		0.0114	0.366	1	12/02/2020 00:13	WG1583806
2-Nitrophenol	U		0.0131	0.366	1	12/02/2020 00:13	WG1583806
4-Nitrophenol	U		0.0114	0.366	1	12/02/2020 00:13	WG1583806
Pentachlorophenol	U		0.00984	0.366	1	12/02/2020 00:13	WG1583806
Phenol	U		0.0147	0.366	1	12/02/2020 00:13	WG1583806
2,4,6-Trichlorophenol	U		0.0117	0.366	1	12/02/2020 00:13	WG1583806
2,4,5-Trichlorophenol	U		0.0124	0.366	1	12/02/2020 00:13	WG1583806
(S) 2-Fluorophenol	*86.1*			*12.0-120*		*12/02/2020 00:13*	WG1583806
(S) Phenol-d5	*81.1*			*10.0-120*		*12/02/2020 00:13*	WG1583806
(S) Nitrobenzene-d5	*61.9*			*10.0-122*		*12/02/2020 00:13*	WG1583806
(S) 2-Fluorobiphenyl	*77.6*			*15.0-120*		*12/02/2020 00:13*	WG1583806
(S) 2,4,6-Tribromophenol	*106*			*10.0-127*		*12/02/2020 00:13*	WG1583806
(S) p-Terphenyl-d14	*78.5*			*10.0-120*		*12/02/2020 00:13*	WG1583806

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	12/01/2020 08:45	WG1584115

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0240	J	0.0197	0.0437	1	12/01/2020 08:49	WG1583991

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.33	J	0.595	2.19	1	12/01/2020 08:41	WG1583760
Arsenic	3.29		0.566	2.19	1	12/01/2020 08:41	WG1583760
Barium	82.2		0.0932	0.547	1	12/01/2020 08:41	WG1583760
Beryllium	0.353		0.0344	0.219	1	12/01/2020 08:41	WG1583760
Cadmium	U		0.0515	0.547	1	12/01/2020 08:41	WG1583760
Chromium	73.5		0.145	1.09	1	12/01/2020 08:41	WG1583760
Cobalt	9.51		0.0887	1.09	1	12/01/2020 08:41	WG1583760
Copper	11.2		0.437	2.19	1	12/01/2020 08:41	WG1583760
Lead	6.45		0.227	0.547	1	12/01/2020 08:41	WG1583760
Molybdenum	0.224	J	0.119	0.547	1	12/01/2020 08:41	WG1583760
Nickel	42.6		0.144	2.19	1	12/01/2020 08:41	WG1583760
Selenium	1.50	J	0.835	2.19	1	12/01/2020 08:41	WG1583760
Silver	U		0.139	1.09	1	12/01/2020 08:41	WG1583760
Thallium	U		0.431	2.19	1	12/01/2020 08:41	WG1583760
Vanadium	60.5		0.553	2.19	1	12/01/2020 08:41	WG1583760
Zinc	35.3		0.910	5.47	1	12/01/2020 08:41	WG1583760

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	1.06	B J	0.987	2.97	25	12/03/2020 01:07	WG1584921
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*12/03/2020 01:07*	WG1584921

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		0.0434	0.0595	1	12/01/2020 21:49	WG1584153
Acrylonitrile	U		0.00429	0.0149	1	12/01/2020 21:49	WG1584153
Benzene	U		0.000556	0.00119	1	12/01/2020 21:49	WG1584153
Bromobenzene	U		0.00107	0.0149	1	12/01/2020 21:49	WG1584153
Bromodichloromethane	U		0.000862	0.00297	1	12/01/2020 21:49	WG1584153
Bromoform	U	J4	0.00139	0.0297	1	12/01/2020 21:49	WG1584153
Bromomethane	U		0.00234	0.0149	1	12/01/2020 21:49	WG1584153
n-Butylbenzene	U		0.00625	0.0149	1	12/01/2020 21:49	WG1584153
sec-Butylbenzene	U		0.00343	0.0149	1	12/01/2020 21:49	WG1584153
tert-Butylbenzene	U		0.00232	0.00595	1	12/01/2020 21:49	WG1584153
Carbon tetrachloride	U		0.00107	0.00595	1	12/01/2020 21:49	WG1584153
Chlorobenzene	U		0.000250	0.00297	1	12/01/2020 21:49	WG1584153
Chlorodibromomethane	U	J4	0.000728	0.00297	1	12/01/2020 21:49	WG1584153
Chloroethane	U		0.00202	0.00595	1	12/01/2020 21:49	WG1584153
Chloroform	U		0.00123	0.00297	1	12/01/2020 21:49	WG1584153
Chloromethane	U		0.00517	0.0149	1	12/01/2020 21:49	WG1584153
2-Chlorotoluene	U		0.00103	0.00297	1	12/01/2020 21:49	WG1584153
4-Chlorotoluene	U		0.000535	0.00595	1	12/01/2020 21:49	WG1584153

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
1,2-Dibromo-3-Chloropropane	U		0.00464	0.0297	1	12/01/2020 21:49	WG1584153
1,2-Dibromoethane	U		0.000771	0.00297	1	12/01/2020 21:49	WG1584153
Dibromomethane	U		0.000892	0.00595	1	12/01/2020 21:49	WG1584153
1,2-Dichlorobenzene	U		0.000506	0.00595	1	12/01/2020 21:49	WG1584153
1,3-Dichlorobenzene	U		0.000714	0.00595	1	12/01/2020 21:49	WG1584153
1,4-Dichlorobenzene	U		0.000833	0.00595	1	12/01/2020 21:49	WG1584153
Dichlorodifluoromethane	U		0.00192	0.00297	1	12/01/2020 21:49	WG1584153
1,1-Dichloroethane	U		0.000584	0.00297	1	12/01/2020 21:49	WG1584153
1,2-Dichloroethane	U		0.000772	0.00297	1	12/01/2020 21:49	WG1584153
1,1-Dichloroethene	U		0.000721	0.00297	1	12/01/2020 21:49	WG1584153
cis-1,2-Dichloroethene	U		0.000873	0.00297	1	12/01/2020 21:49	WG1584153
trans-1,2-Dichloroethene	U		0.00124	0.00595	1	12/01/2020 21:49	WG1584153
1,2-Dichloropropane	U		0.00169	0.00595	1	12/01/2020 21:49	WG1584153
1,1-Dichloropropene	U		0.000962	0.00297	1	12/01/2020 21:49	WG1584153
1,3-Dichloropropane	U		0.000596	0.00595	1	12/01/2020 21:49	WG1584153
cis-1,3-Dichloropropene	U		0.000901	0.00297	1	12/01/2020 21:49	WG1584153
trans-1,3-Dichloropropene	U		0.00136	0.00595	1	12/01/2020 21:49	WG1584153
2,2-Dichloropropane	U	J4	0.00164	0.00297	1	12/01/2020 21:49	WG1584153
Di-isopropyl ether	U		0.000488	0.00119	1	12/01/2020 21:49	WG1584153
Ethylbenzene	0.000981	J	0.000877	0.00297	1	12/01/2020 21:49	WG1584153
Hexachloro-1,3-butadiene	U		0.00714	0.0297	1	12/01/2020 21:49	WG1584153
Isopropylbenzene	U		0.000506	0.00297	1	12/01/2020 21:49	WG1584153
p-Isopropyltoluene	U		0.00303	0.00595	1	12/01/2020 21:49	WG1584153
2-Butanone (MEK)	U		0.0755	0.119	1	12/01/2020 21:49	WG1584153
Methylene Chloride	U		0.00790	0.0297	1	12/01/2020 21:49	WG1584153
4-Methyl-2-pentanone (MIBK)	U		0.00271	0.0297	1	12/01/2020 21:49	WG1584153
Methyl tert-butyl ether	U	J4	0.000416	0.00119	1	12/01/2020 21:49	WG1584153
Naphthalene	U		0.00581	0.0149	1	12/01/2020 21:49	WG1584153
n-Propylbenzene	U		0.00113	0.00595	1	12/01/2020 21:49	WG1584153
Styrene	U		0.000272	0.0149	1	12/01/2020 21:49	WG1584153
1,1,1,2-Tetrachloroethane	U		0.00113	0.00297	1	12/01/2020 21:49	WG1584153
1,1,2,2-Tetrachloroethane	U		0.000827	0.00297	1	12/01/2020 21:49	WG1584153
1,1,2-Trichlorotrifluoroethane	U		0.000897	0.00297	1	12/01/2020 21:49	WG1584153
Tetrachloroethene	U		0.00107	0.00297	1	12/01/2020 21:49	WG1584153
Toluene	U		0.00155	0.00595	1	12/01/2020 21:49	WG1584153
1,2,3-Trichlorobenzene	U		0.00872	0.0149	1	12/01/2020 21:49	WG1584153
1,2,4-Trichlorobenzene	U		0.00523	0.0149	1	12/01/2020 21:49	WG1584153
1,1,1-Trichloroethane	U		0.00110	0.00297	1	12/01/2020 21:49	WG1584153
1,1,2-Trichloroethane	U		0.000710	0.00297	1	12/01/2020 21:49	WG1584153
Trichloroethene	U		0.000695	0.00119	1	12/01/2020 21:49	WG1584153
Trichlorofluoromethane	U		0.000984	0.00297	1	12/01/2020 21:49	WG1584153
1,2,3-Trichloropropane	U		0.00193	0.0149	1	12/01/2020 21:49	WG1584153
1,2,4-Trimethylbenzene	0.00490	J	0.00188	0.00595	1	12/01/2020 21:49	WG1584153
1,2,3-Trimethylbenzene	0.00338	J	0.00188	0.00595	1	12/01/2020 21:49	WG1584153
1,3,5-Trimethylbenzene	0.00369	J	0.00238	0.00595	1	12/01/2020 21:49	WG1584153
Vinyl chloride	U		0.00138	0.00297	1	12/01/2020 21:49	WG1584153
Xylenes, Total	0.00797		0.00105	0.00773	1	12/01/2020 21:49	WG1584153
(S) Toluene-d8	*105*			*75.0-131*		*12/01/2020 21:49*	WG1584153
(S) 4-Bromofluorobenzene	*98.4*			*67.0-138*		*12/01/2020 21:49*	WG1584153
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*12/01/2020 21:49*	WG1584153

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	16.6	J	8.01	43.7	10	12/01/2020 12:25	WG1583815
C22-C32 Hydrocarbons	225		14.5	43.7	10	12/01/2020 12:25	WG1583815
C32-C40 Hydrocarbons	152		14.5	43.7	10	12/01/2020 12:25	WG1583815
(S) o-Terphenyl	*178*	J1		*18.0-148*		*12/01/2020 12:25*	WG1583815

Sample Narrative:

L1289379-03 WG1583815: Surrogate failure due to matrix interference

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0390		0.00589	0.0364	1	12/02/2020 00:53	WG1583806
Acenaphthylene	U		0.00513	0.0364	1	12/02/2020 00:53	WG1583806
Anthracene	0.00704	J	0.00648	0.0364	1	12/02/2020 00:53	WG1583806
Benzo(a)anthracene	U		0.00642	0.0364	1	12/02/2020 00:53	WG1583806
Benzo(b)fluoranthene	0.00812	J	0.00679	0.0364	1	12/02/2020 00:53	WG1583806
Benzo(k)fluoranthene	U		0.00647	0.0364	1	12/02/2020 00:53	WG1583806
Benzo(g,h,i)perylene	0.00667	J	0.00666	0.0364	1	12/02/2020 00:53	WG1583806
Benzo(a)pyrene	U		0.00677	0.0364	1	12/02/2020 00:53	WG1583806
Bis(2-chlorethoxy)methane	U		0.0109	0.364	1	12/02/2020 00:53	WG1583806
Bis(2-chloroethyl)ether	U		0.0120	0.364	1	12/02/2020 00:53	WG1583806
2,2-Oxybis(1-Chloropropane)	U		0.0157	0.364	1	12/02/2020 00:53	WG1583806
4-Bromophenyl-phenylether	U		0.0128	0.364	1	12/02/2020 00:53	WG1583806
2-Chloronaphthalene	U		0.00640	0.0364	1	12/02/2020 00:53	WG1583806
4-Chlorophenyl-phenylether	U		0.0127	0.364	1	12/02/2020 00:53	WG1583806
Chrysene	U		0.00724	0.0364	1	12/02/2020 00:53	WG1583806
Dibenz(a,h)anthracene	U		0.0101	0.0364	1	12/02/2020 00:53	WG1583806
3,3-Dichlorobenzidine	U		0.0134	0.364	1	12/02/2020 00:53	WG1583806
2,4-Dinitrotoluene	U		0.0104	0.364	1	12/02/2020 00:53	WG1583806
2,6-Dinitrotoluene	U		0.0119	0.364	1	12/02/2020 00:53	WG1583806
Fluoranthene	0.0122	J	0.00657	0.0364	1	12/02/2020 00:53	WG1583806
Fluorene	0.0177	J	0.00593	0.0364	1	12/02/2020 00:53	WG1583806
Hexachlorobenzene	U		0.0129	0.364	1	12/02/2020 00:53	WG1583806
Hexachloro-1,3-butadiene	U		0.0122	0.364	1	12/02/2020 00:53	WG1583806
Hexachlorocyclopentadiene	U		0.0191	0.364	1	12/02/2020 00:53	WG1583806
Hexachloroethane	U		0.0143	0.364	1	12/02/2020 00:53	WG1583806
Indeno(1,2,3-cd)pyrene	U		0.0103	0.0364	1	12/02/2020 00:53	WG1583806
Isophorone	U		0.0112	0.364	1	12/02/2020 00:53	WG1583806
Naphthalene	0.577		0.00914	0.0364	1	12/02/2020 00:53	WG1583806
Nitrobenzene	U		0.0127	0.364	1	12/02/2020 00:53	WG1583806
n-Nitrosodimethylamine	U		0.0540	0.364	1	12/02/2020 00:53	WG1583806
n-Nitrosodiphenylamine	U		0.0276	0.364	1	12/02/2020 00:53	WG1583806
n-Nitrosodi-n-propylamine	U		0.0121	0.364	1	12/02/2020 00:53	WG1583806
Phenanthrene	0.0255	J	0.00723	0.0364	1	12/02/2020 00:53	WG1583806
Pyridine	U		0.0241	0.364	1	12/02/2020 00:53	WG1583806
Benzylbutyl phthalate	U		0.0114	0.364	1	12/02/2020 00:53	WG1583806
Bis(2-ethylhexyl)phthalate	U		0.0461	0.364	1	12/02/2020 00:53	WG1583806
Di-n-butyl phthalate	U		0.0125	0.364	1	12/02/2020 00:53	WG1583806
Diethyl phthalate	U		0.0120	0.364	1	12/02/2020 00:53	WG1583806
Dimethyl phthalate	U		0.0772	0.364	1	12/02/2020 00:53	WG1583806
Di-n-octyl phthalate	U		0.0246	0.364	1	12/02/2020 00:53	WG1583806
Pyrene	0.00800	J	0.00708	0.0364	1	12/02/2020 00:53	WG1583806
1,2,4-Trichlorobenzene	U		0.0114	0.364	1	12/02/2020 00:53	WG1583806
4-Chloro-3-methylphenol	U		0.0118	0.364	1	12/02/2020 00:53	WG1583806
2-Chlorophenol	U		0.0120	0.364	1	12/02/2020 00:53	WG1583806
2,4-Dichlorophenol	U		0.0106	0.364	1	12/02/2020 00:53	WG1583806

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-Dimethylphenol	U		0.00951	0.364	1	12/02/2020 00:53	WG1583806
4,6-Dinitro-2-methylphenol	U		0.0825	0.364	1	12/02/2020 00:53	WG1583806
2,4-Dinitrophenol	U		0.0852	0.364	1	12/02/2020 00:53	WG1583806
2-Methylphenol	U		0.0109	0.364	1	12/02/2020 00:53	WG1583806
3&4-Methyl Phenol	U		0.0114	0.364	1	12/02/2020 00:53	WG1583806
2-Nitrophenol	U		0.0130	0.364	1	12/02/2020 00:53	WG1583806
4-Nitrophenol	U		0.0114	0.364	1	12/02/2020 00:53	WG1583806
Pentachlorophenol	U		0.00980	0.364	1	12/02/2020 00:53	WG1583806
Phenol	U		0.0147	0.364	1	12/02/2020 00:53	WG1583806
2,4,6-Trichlorophenol	U		0.0117	0.364	1	12/02/2020 00:53	WG1583806
2,4,5-Trichlorophenol	U		0.0124	0.364	1	12/02/2020 00:53	WG1583806
(S) 2-Fluorophenol	*87.3*			*12.0-120*		*12/02/2020 00:53*	WG1583806
(S) Phenol-d5	*80.8*			*10.0-120*		*12/02/2020 00:53*	WG1583806
(S) Nitrobenzene-d5	*62.5*			*10.0-122*		*12/02/2020 00:53*	WG1583806
(S) 2-Fluorobiphenyl	*76.2*			*15.0-120*		*12/02/2020 00:53*	WG1583806
(S) 2,4,6-Tribromophenol	*105*			*10.0-127*		*12/02/2020 00:53*	WG1583806
(S) p-Terphenyl-d14	*77.4*			*10.0-120*		*12/02/2020 00:53*	WG1583806

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	12/01/2020 08:45	WG1584115

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		0.0190	0.0422	1	12/01/2020 08:51	WG1583991

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.772	J	0.574	2.11	1	12/01/2020 08:44	WG1583760
Arsenic	0.674	J	0.547	2.11	1	12/01/2020 08:44	WG1583760
Barium	24.9		0.0899	0.528	1	12/01/2020 08:44	WG1583760
Beryllium	0.275		0.0332	0.211	1	12/01/2020 08:44	WG1583760
Cadmium	U		0.0497	0.528	1	12/01/2020 08:44	WG1583760
Chromium	28.7		0.140	1.06	1	12/01/2020 08:44	WG1583760
Cobalt	3.69		0.0856	1.06	1	12/01/2020 08:44	WG1583760
Copper	3.11		0.422	2.11	1	12/01/2020 08:44	WG1583760
Lead	2.03		0.219	0.528	1	12/01/2020 08:44	WG1583760
Molybdenum	U		0.115	0.528	1	12/01/2020 08:44	WG1583760
Nickel	20.2		0.139	2.11	1	12/01/2020 08:44	WG1583760
Selenium	0.836	J	0.806	2.11	1	12/01/2020 08:44	WG1583760
Silver	U		0.134	1.06	1	12/01/2020 08:44	WG1583760
Thallium	U		0.416	2.11	1	12/01/2020 08:44	WG1583760
Vanadium	32.9		0.534	2.11	1	12/01/2020 08:44	WG1583760
Zinc	14.8		0.878	5.28	1	12/01/2020 08:44	WG1583760

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		0.924	2.78	25	12/03/2020 01:30	WG1584921
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*12/03/2020 01:30*	WG1584921

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		0.0406	0.0557	1	12/01/2020 22:08	WG1584153
Acrylonitrile	U		0.00402	0.0139	1	12/01/2020 22:08	WG1584153
Benzene	0.00285		0.000520	0.00111	1	12/01/2020 22:08	WG1584153
Bromobenzene	U		0.00100	0.0139	1	12/01/2020 22:08	WG1584153
Bromodichloromethane	U		0.000807	0.00278	1	12/01/2020 22:08	WG1584153
Bromoform	U	J4	0.00130	0.0278	1	12/01/2020 22:08	WG1584153
Bromomethane	U		0.00219	0.0139	1	12/01/2020 22:08	WG1584153
n-Butylbenzene	U		0.00585	0.0139	1	12/01/2020 22:08	WG1584153
sec-Butylbenzene	U		0.00321	0.0139	1	12/01/2020 22:08	WG1584153
tert-Butylbenzene	U		0.00217	0.00557	1	12/01/2020 22:08	WG1584153
Carbon tetrachloride	U		0.00100	0.00557	1	12/01/2020 22:08	WG1584153
Chlorobenzene	U		0.000234	0.00278	1	12/01/2020 22:08	WG1584153
Chlorodibromomethane	U	J4	0.000682	0.00278	1	12/01/2020 22:08	WG1584153
Chloroethane	U		0.00189	0.00557	1	12/01/2020 22:08	WG1584153
Chloroform	U		0.00115	0.00278	1	12/01/2020 22:08	WG1584153
Chloromethane	U		0.00484	0.0139	1	12/01/2020 22:08	WG1584153
2-Chlorotoluene	U		0.000963	0.00278	1	12/01/2020 22:08	WG1584153
4-Chlorotoluene	U		0.000501	0.00557	1	12/01/2020 22:08	WG1584153

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
1,2-Dibromo-3-Chloropropane	U		0.00434	0.0278	1	12/01/2020 22:08	WG1584153
1,2-Dibromoethane	U		0.000722	0.00278	1	12/01/2020 22:08	WG1584153
Dibromomethane	U		0.000835	0.00557	1	12/01/2020 22:08	WG1584153
1,2-Dichlorobenzene	U		0.000473	0.00557	1	12/01/2020 22:08	WG1584153
1,3-Dichlorobenzene	U		0.000668	0.00557	1	12/01/2020 22:08	WG1584153
1,4-Dichlorobenzene	U		0.000780	0.00557	1	12/01/2020 22:08	WG1584153
Dichlorodifluoromethane	U		0.00179	0.00278	1	12/01/2020 22:08	WG1584153
1,1-Dichloroethane	U		0.000547	0.00278	1	12/01/2020 22:08	WG1584153
1,2-Dichloroethane	U		0.000723	0.00278	1	12/01/2020 22:08	WG1584153
1,1-Dichloroethene	U		0.000675	0.00278	1	12/01/2020 22:08	WG1584153
cis-1,2-Dichloroethene	U		0.000817	0.00278	1	12/01/2020 22:08	WG1584153
trans-1,2-Dichloroethene	U		0.00116	0.00557	1	12/01/2020 22:08	WG1584153
1,2-Dichloropropane	U		0.00158	0.00557	1	12/01/2020 22:08	WG1584153
1,1-Dichloropropene	U		0.000901	0.00278	1	12/01/2020 22:08	WG1584153
1,3-Dichloropropane	U		0.000558	0.00557	1	12/01/2020 22:08	WG1584153
cis-1,3-Dichloropropene	U		0.000843	0.00278	1	12/01/2020 22:08	WG1584153
trans-1,3-Dichloropropene	U		0.00127	0.00557	1	12/01/2020 22:08	WG1584153
2,2-Dichloropropane	U	J4	0.00154	0.00278	1	12/01/2020 22:08	WG1584153
Di-isopropyl ether	U		0.000457	0.00111	1	12/01/2020 22:08	WG1584153
Ethylbenzene	U		0.000821	0.00278	1	12/01/2020 22:08	WG1584153
Hexachloro-1,3-butadiene	U		0.00668	0.0278	1	12/01/2020 22:08	WG1584153
Isopropylbenzene	U		0.000473	0.00278	1	12/01/2020 22:08	WG1584153
p-Isopropyltoluene	U		0.00284	0.00557	1	12/01/2020 22:08	WG1584153
2-Butanone (MEK)	U		0.0707	0.111	1	12/01/2020 22:08	WG1584153
Methylene Chloride	U		0.00739	0.0278	1	12/01/2020 22:08	WG1584153
4-Methyl-2-pentanone (MIBK)	U		0.00254	0.0278	1	12/01/2020 22:08	WG1584153
Methyl tert-butyl ether	U	J4	0.000390	0.00111	1	12/01/2020 22:08	WG1584153
Naphthalene	U		0.00543	0.0139	1	12/01/2020 22:08	WG1584153
n-Propylbenzene	U		0.00106	0.00557	1	12/01/2020 22:08	WG1584153
Styrene	U		0.000255	0.0139	1	12/01/2020 22:08	WG1584153
1,1,1,2-Tetrachloroethane	U		0.00106	0.00278	1	12/01/2020 22:08	WG1584153
1,1,2,2-Tetrachloroethane	U		0.000774	0.00278	1	12/01/2020 22:08	WG1584153
1,1,2-Trichlorotrifluoroethane	U		0.000840	0.00278	1	12/01/2020 22:08	WG1584153
Tetrachloroethene	U		0.000998	0.00278	1	12/01/2020 22:08	WG1584153
Toluene	0.00178	J	0.00145	0.00557	1	12/01/2020 22:08	WG1584153
1,2,3-Trichlorobenzene	U		0.00816	0.0139	1	12/01/2020 22:08	WG1584153
1,2,4-Trichlorobenzene	U		0.00490	0.0139	1	12/01/2020 22:08	WG1584153
1,1,1-Trichloroethane	U		0.00103	0.00278	1	12/01/2020 22:08	WG1584153
1,1,2-Trichloroethane	U		0.000665	0.00278	1	12/01/2020 22:08	WG1584153
Trichloroethene	U		0.000650	0.00111	1	12/01/2020 22:08	WG1584153
Trichlorofluoromethane	U		0.000921	0.00278	1	12/01/2020 22:08	WG1584153
1,2,3-Trichloropropane	U		0.00180	0.0139	1	12/01/2020 22:08	WG1584153
1,2,4-Trimethylbenzene	U		0.00176	0.00557	1	12/01/2020 22:08	WG1584153
1,2,3-Trimethylbenzene	U		0.00176	0.00557	1	12/01/2020 22:08	WG1584153
1,3,5-Trimethylbenzene	U		0.00223	0.00557	1	12/01/2020 22:08	WG1584153
Vinyl chloride	U		0.00129	0.00278	1	12/01/2020 22:08	WG1584153
Xylenes, Total	0.00281	J	0.000980	0.00724	1	12/01/2020 22:08	WG1584153
(S) Toluene-d8	*105*			*75.0-131*		*12/01/2020 22:08*	WG1584153
(S) 4-Bromofluorobenzene	*99.1*			*67.0-138*		*12/01/2020 22:08*	WG1584153
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*12/01/2020 22:08*	WG1584153

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	U		0.773	4.22	1	12/01/2020 09:05	WG1583815
C22-C32 Hydrocarbons	4.76		1.40	4.22	1	12/01/2020 09:05	WG1583815
C32-C40 Hydrocarbons	4.33		1.40	4.22	1	12/01/2020 09:05	WG1583815
(S) o-Terphenyl	*74.8*			*18.0-148*		*12/01/2020 09:05*	WG1583815

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00569	0.0351	1	12/01/2020 23:13	WG1583806
Acenaphthylene	U		0.00495	0.0351	1	12/01/2020 23:13	WG1583806
Anthracene	U		0.00626	0.0351	1	12/01/2020 23:13	WG1583806
Benzo(a)anthracene	U		0.00619	0.0351	1	12/01/2020 23:13	WG1583806
Benzo(b)fluoranthene	U		0.00655	0.0351	1	12/01/2020 23:13	WG1583806
Benzo(k)fluoranthene	U		0.00625	0.0351	1	12/01/2020 23:13	WG1583806
Benzo(g,h,i)perylene	U		0.00643	0.0351	1	12/01/2020 23:13	WG1583806
Benzo(a)pyrene	U		0.00653	0.0351	1	12/01/2020 23:13	WG1583806
Bis(2-chlorethoxy)methane	U		0.0106	0.351	1	12/01/2020 23:13	WG1583806
Bis(2-chloroethyl)ether	U		0.0116	0.351	1	12/01/2020 23:13	WG1583806
2,2-Oxybis(1-Chloropropane)	U		0.0152	0.351	1	12/01/2020 23:13	WG1583806
4-Bromophenyl-phenylether	U		0.0123	0.351	1	12/01/2020 23:13	WG1583806
2-Chloronaphthalene	U		0.00617	0.0351	1	12/01/2020 23:13	WG1583806
4-Chlorophenyl-phenylether	U		0.0122	0.351	1	12/01/2020 23:13	WG1583806
Chrysene	U		0.00698	0.0351	1	12/01/2020 23:13	WG1583806
Dibenz(a,h)anthracene	U		0.00974	0.0351	1	12/01/2020 23:13	WG1583806
3,3-Dichlorobenzidine	U		0.0130	0.351	1	12/01/2020 23:13	WG1583806
2,4-Dinitrotoluene	U		0.0101	0.351	1	12/01/2020 23:13	WG1583806
2,6-Dinitrotoluene	U		0.0115	0.351	1	12/01/2020 23:13	WG1583806
Fluoranthene	U		0.00634	0.0351	1	12/01/2020 23:13	WG1583806
Fluorene	U		0.00572	0.0351	1	12/01/2020 23:13	WG1583806
Hexachlorobenzene	U		0.0124	0.351	1	12/01/2020 23:13	WG1583806
Hexachloro-1,3-butadiene	U		0.0118	0.351	1	12/01/2020 23:13	WG1583806
Hexachlorocyclopentadiene	U		0.0185	0.351	1	12/01/2020 23:13	WG1583806
Hexachloroethane	U		0.0138	0.351	1	12/01/2020 23:13	WG1583806
Indeno(1,2,3-cd)pyrene	U		0.00993	0.0351	1	12/01/2020 23:13	WG1583806
Isophorone	U		0.0108	0.351	1	12/01/2020 23:13	WG1583806
Naphthalene	0.0624		0.00882	0.0351	1	12/01/2020 23:13	WG1583806
Nitrobenzene	U		0.0122	0.351	1	12/01/2020 23:13	WG1583806
n-Nitrosodimethylamine	U		0.0521	0.351	1	12/01/2020 23:13	WG1583806
n-Nitrosodiphenylamine	U		0.0266	0.351	1	12/01/2020 23:13	WG1583806
n-Nitrosodi-n-propylamine	U		0.0117	0.351	1	12/01/2020 23:13	WG1583806
Phenanthrene	U		0.00697	0.0351	1	12/01/2020 23:13	WG1583806
Pyridine	U		0.0232	0.351	1	12/01/2020 23:13	WG1583806
Benzylbutyl phthalate	U		0.0110	0.351	1	12/01/2020 23:13	WG1583806
Bis(2-ethylhexyl)phthalate	U		0.0445	0.351	1	12/01/2020 23:13	WG1583806
Di-n-butyl phthalate	U		0.0120	0.351	1	12/01/2020 23:13	WG1583806
Diethyl phthalate	U		0.0116	0.351	1	12/01/2020 23:13	WG1583806
Dimethyl phthalate	U		0.0745	0.351	1	12/01/2020 23:13	WG1583806
Di-n-octyl phthalate	U		0.0237	0.351	1	12/01/2020 23:13	WG1583806
Pyrene	U		0.00684	0.0351	1	12/01/2020 23:13	WG1583806
1,2,4-Trichlorobenzene	U		0.0110	0.351	1	12/01/2020 23:13	WG1583806
4-Chloro-3-methylphenol	U		0.0114	0.351	1	12/01/2020 23:13	WG1583806
2-Chlorophenol	U		0.0116	0.351	1	12/01/2020 23:13	WG1583806
2,4-Dichlorophenol	U		0.0102	0.351	1	12/01/2020 23:13	WG1583806
2,4-Dimethylphenol	U		0.00918	0.351	1	12/01/2020 23:13	WG1583806
4,6-Dinitro-2-methylphenol	U		0.0797	0.351	1	12/01/2020 23:13	WG1583806
2,4-Dinitrophenol	U		0.0822	0.351	1	12/01/2020 23:13	WG1583806

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

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Methylphenol	U		0.0106	0.351	1	12/01/2020 23:13	WG1583806
3&4-Methyl Phenol	U		0.0110	0.351	1	12/01/2020 23:13	WG1583806
2-Nitrophenol	U		0.0126	0.351	1	12/01/2020 23:13	WG1583806
4-Nitrophenol	U		0.0110	0.351	1	12/01/2020 23:13	WG1583806
Pentachlorophenol	U		0.00945	0.351	1	12/01/2020 23:13	WG1583806
Phenol	U		0.0141	0.351	1	12/01/2020 23:13	WG1583806
2,4,6-Trichlorophenol	U		0.0113	0.351	1	12/01/2020 23:13	WG1583806
2,4,5-Trichlorophenol	U		0.0119	0.351	1	12/01/2020 23:13	WG1583806
(S) 2-Fluorophenol	*76.0*			*12.0-120*		*12/01/2020 23:13*	WG1583806
(S) Phenol-d5	*69.6*			*10.0-120*		*12/01/2020 23:13*	WG1583806
(S) Nitrobenzene-d5	*53.5*			*10.0-122*		*12/01/2020 23:13*	WG1583806
(S) 2-Fluorobiphenyl	*68.9*			*15.0-120*		*12/01/2020 23:13*	WG1583806
(S) 2,4,6-Tribromophenol	*92.7*			*10.0-127*		*12/01/2020 23:13*	WG1583806
(S) p-Terphenyl-d14	*71.0*			*10.0-120*		*12/01/2020 23:13*	WG1583806

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	12/01/2020 08:31	WG1584117

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		0.0190	0.0422	1	12/01/2020 09:02	WG1583991

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.575	2.11	1	11/30/2020 23:59	WG1583319
Arsenic	2.19	B	0.547	2.11	1	11/30/2020 23:59	WG1583319
Barium	25.2		0.0900	0.528	1	11/30/2020 23:59	WG1583319
Beryllium	0.273		0.0333	0.211	1	11/30/2020 23:59	WG1583319
Cadmium	0.0510	J	0.0497	0.528	1	11/30/2020 23:59	WG1583319
Chromium	26.7		0.140	1.06	1	11/30/2020 23:59	WG1583319
Cobalt	3.39		0.0856	1.06	1	11/30/2020 23:59	WG1583319
Copper	2.87		0.422	2.11	1	11/30/2020 23:59	WG1583319
Lead	1.33		0.220	0.528	1	11/30/2020 23:59	WG1583319
Molybdenum	0.166	B J	0.115	0.528	1	11/30/2020 23:59	WG1583319
Nickel	18.6		0.139	2.11	1	11/30/2020 23:59	WG1583319
Selenium	U		0.807	2.11	1	11/30/2020 23:59	WG1583319
Silver	U		0.134	1.06	1	11/30/2020 23:59	WG1583319
Thallium	U		0.416	2.11	1	11/30/2020 23:59	WG1583319
Vanadium	30.1		0.534	2.11	1	11/30/2020 23:59	WG1583319
Zinc	14.8		0.879	5.28	1	11/30/2020 23:59	WG1583319

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		0.928	2.79	25	12/03/2020 08:13	WG1585567
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*		*12/03/2020 08:13*	WG1585567

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		0.0408	0.0559	1	12/01/2020 22:27	WG1584153
Acrylonitrile	U		0.00404	0.0140	1	12/01/2020 22:27	WG1584153
Benzene	U		0.000522	0.00112	1	12/01/2020 22:27	WG1584153
Bromobenzene	U		0.00101	0.0140	1	12/01/2020 22:27	WG1584153
Bromodichloromethane	U		0.000810	0.00279	1	12/01/2020 22:27	WG1584153
Bromoform	U	J4	0.00131	0.0279	1	12/01/2020 22:27	WG1584153
Bromomethane	U		0.00220	0.0140	1	12/01/2020 22:27	WG1584153
n-Butylbenzene	U		0.00587	0.0140	1	12/01/2020 22:27	WG1584153
sec-Butylbenzene	U		0.00322	0.0140	1	12/01/2020 22:27	WG1584153
tert-Butylbenzene	U		0.00218	0.00559	1	12/01/2020 22:27	WG1584153
Carbon tetrachloride	U		0.00100	0.00559	1	12/01/2020 22:27	WG1584153
Chlorobenzene	U		0.000235	0.00279	1	12/01/2020 22:27	WG1584153
Chlorodibromomethane	U	J4	0.000684	0.00279	1	12/01/2020 22:27	WG1584153
Chloroethane	U		0.00190	0.00559	1	12/01/2020 22:27	WG1584153
Chloroform	U		0.00115	0.00279	1	12/01/2020 22:27	WG1584153
Chloromethane	U		0.00486	0.0140	1	12/01/2020 22:27	WG1584153
2-Chlorotoluene	U		0.000967	0.00279	1	12/01/2020 22:27	WG1584153
4-Chlorotoluene	U		0.000503	0.00559	1	12/01/2020 22:27	WG1584153

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
1,2-Dibromo-3-Chloropropane	U		0.00436	0.0279	1	12/01/2020 22:27	WG1584153
1,2-Dibromoethane	U		0.000724	0.00279	1	12/01/2020 22:27	WG1584153
Dibromomethane	U		0.000838	0.00559	1	12/01/2020 22:27	WG1584153
1,2-Dichlorobenzene	U		0.000475	0.00559	1	12/01/2020 22:27	WG1584153
1,3-Dichlorobenzene	U		0.000671	0.00559	1	12/01/2020 22:27	WG1584153
1,4-Dichlorobenzene	U		0.000782	0.00559	1	12/01/2020 22:27	WG1584153
Dichlorodifluoromethane	U		0.00180	0.00279	1	12/01/2020 22:27	WG1584153
1,1-Dichloroethane	U		0.000549	0.00279	1	12/01/2020 22:27	WG1584153
1,2-Dichloroethane	U		0.000725	0.00279	1	12/01/2020 22:27	WG1584153
1,1-Dichloroethene	U		0.000677	0.00279	1	12/01/2020 22:27	WG1584153
cis-1,2-Dichloroethene	U		0.000820	0.00279	1	12/01/2020 22:27	WG1584153
trans-1,2-Dichloroethene	U		0.00116	0.00559	1	12/01/2020 22:27	WG1584153
1,2-Dichloropropane	U		0.00159	0.00559	1	12/01/2020 22:27	WG1584153
1,1-Dichloropropene	U		0.000904	0.00279	1	12/01/2020 22:27	WG1584153
1,3-Dichloropropane	U		0.000560	0.00559	1	12/01/2020 22:27	WG1584153
cis-1,3-Dichloropropene	U		0.000846	0.00279	1	12/01/2020 22:27	WG1584153
trans-1,3-Dichloropropene	U		0.00127	0.00559	1	12/01/2020 22:27	WG1584153
2,2-Dichloropropane	U	J4	0.00154	0.00279	1	12/01/2020 22:27	WG1584153
Di-isopropyl ether	U		0.000458	0.00112	1	12/01/2020 22:27	WG1584153
Ethylbenzene	U		0.000824	0.00279	1	12/01/2020 22:27	WG1584153
Hexachloro-1,3-butadiene	U		0.00671	0.0279	1	12/01/2020 22:27	WG1584153
Isopropylbenzene	U		0.000475	0.00279	1	12/01/2020 22:27	WG1584153
p-Isopropyltoluene	U		0.00285	0.00559	1	12/01/2020 22:27	WG1584153
2-Butanone (MEK)	U		0.0710	0.112	1	12/01/2020 22:27	WG1584153
Methylene Chloride	U		0.00742	0.0279	1	12/01/2020 22:27	WG1584153
4-Methyl-2-pentanone (MIBK)	U		0.00255	0.0279	1	12/01/2020 22:27	WG1584153
Methyl tert-butyl ether	U	J4	0.000391	0.00112	1	12/01/2020 22:27	WG1584153
Naphthalene	U		0.00545	0.0140	1	12/01/2020 22:27	WG1584153
n-Propylbenzene	U		0.00106	0.00559	1	12/01/2020 22:27	WG1584153
Styrene	U		0.000256	0.0140	1	12/01/2020 22:27	WG1584153
1,1,1,2-Tetrachloroethane	U		0.00106	0.00279	1	12/01/2020 22:27	WG1584153
1,1,2,2-Tetrachloroethane	U		0.000777	0.00279	1	12/01/2020 22:27	WG1584153
1,1,2-Trichlorotrifluoroethane	U		0.000843	0.00279	1	12/01/2020 22:27	WG1584153
Tetrachloroethene	U		0.00100	0.00279	1	12/01/2020 22:27	WG1584153
Toluene	U		0.00145	0.00559	1	12/01/2020 22:27	WG1584153
1,2,3-Trichlorobenzene	U		0.00819	0.0140	1	12/01/2020 22:27	WG1584153
1,2,4-Trichlorobenzene	U		0.00492	0.0140	1	12/01/2020 22:27	WG1584153
1,1,1-Trichloroethane	U		0.00103	0.00279	1	12/01/2020 22:27	WG1584153
1,1,2-Trichloroethane	U		0.000667	0.00279	1	12/01/2020 22:27	WG1584153
Trichloroethene	U		0.000653	0.00112	1	12/01/2020 22:27	WG1584153
Trichlorofluoromethane	U		0.000924	0.00279	1	12/01/2020 22:27	WG1584153
1,2,3-Trichloropropane	U		0.00181	0.0140	1	12/01/2020 22:27	WG1584153
1,2,4-Trimethylbenzene	U		0.00177	0.00559	1	12/01/2020 22:27	WG1584153
1,2,3-Trimethylbenzene	U		0.00177	0.00559	1	12/01/2020 22:27	WG1584153
1,3,5-Trimethylbenzene	U		0.00224	0.00559	1	12/01/2020 22:27	WG1584153
Vinyl chloride	U		0.00130	0.00279	1	12/01/2020 22:27	WG1584153
Xylenes, Total	U		0.000984	0.00727	1	12/01/2020 22:27	WG1584153
(S) Toluene-d8	*106*			*75.0-131*		*12/01/2020 22:27*	WG1584153
(S) 4-Bromofluorobenzene	*97.3*			*67.0-138*		*12/01/2020 22:27*	WG1584153
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*12/01/2020 22:27*	WG1584153

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	U		0.774	4.22	1	11/30/2020 22:36	WG1583815
C22-C32 Hydrocarbons	U		1.40	4.22	1	11/30/2020 22:36	WG1583815
C32-C40 Hydrocarbons	U		1.40	4.22	1	11/30/2020 22:36	WG1583815
(S) o-Terphenyl	*82.8*			*18.0-148*		*11/30/2020 22:36*	WG1583815

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0194	J	0.00569	0.0352	1	12/01/2020 19:32	WG1583806
Acenaphthylene	U		0.00495	0.0352	1	12/01/2020 19:32	WG1583806
Anthracene	U		0.00626	0.0352	1	12/01/2020 19:32	WG1583806
Benzo(a)anthracene	U		0.00620	0.0352	1	12/01/2020 19:32	WG1583806
Benzo(b)fluoranthene	U		0.00656	0.0352	1	12/01/2020 19:32	WG1583806
Benzo(k)fluoranthene	U		0.00625	0.0352	1	12/01/2020 19:32	WG1583806
Benzo(g,h,i)perylene	U		0.00643	0.0352	1	12/01/2020 19:32	WG1583806
Benzo(a)pyrene	U		0.00654	0.0352	1	12/01/2020 19:32	WG1583806
Bis(2-chlorethoxy)methane	U		0.0106	0.352	1	12/01/2020 19:32	WG1583806
Bis(2-chloroethyl)ether	U		0.0116	0.352	1	12/01/2020 19:32	WG1583806
2,2-Oxybis(1-Chloropropane)	U		0.0152	0.352	1	12/01/2020 19:32	WG1583806
4-Bromophenyl-phenylether	U		0.0124	0.352	1	12/01/2020 19:32	WG1583806
2-Chloronaphthalene	U		0.00618	0.0352	1	12/01/2020 19:32	WG1583806
4-Chlorophenyl-phenylether	U		0.0123	0.352	1	12/01/2020 19:32	WG1583806
Chrysene	U		0.00699	0.0352	1	12/01/2020 19:32	WG1583806
Dibenz(a,h)anthracene	U		0.00975	0.0352	1	12/01/2020 19:32	WG1583806
3,3-Dichlorobenzidine	U		0.0130	0.352	1	12/01/2020 19:32	WG1583806
2,4-Dinitrotoluene	U		0.0101	0.352	1	12/01/2020 19:32	WG1583806
2,6-Dinitrotoluene	U		0.0115	0.352	1	12/01/2020 19:32	WG1583806
Fluoranthene	U		0.00635	0.0352	1	12/01/2020 19:32	WG1583806
Fluorene	0.00787	J	0.00572	0.0352	1	12/01/2020 19:32	WG1583806
Hexachlorobenzene	U		0.0125	0.352	1	12/01/2020 19:32	WG1583806
Hexachloro-1,3-butadiene	U		0.0118	0.352	1	12/01/2020 19:32	WG1583806
Hexachlorocyclopentadiene	U		0.0185	0.352	1	12/01/2020 19:32	WG1583806
Hexachloroethane	U		0.0138	0.352	1	12/01/2020 19:32	WG1583806
Indeno(1,2,3-cd)pyrene	U		0.00994	0.0352	1	12/01/2020 19:32	WG1583806
Isophorone	U		0.0108	0.352	1	12/01/2020 19:32	WG1583806
Naphthalene	0.331		0.00883	0.0352	1	12/01/2020 19:32	WG1583806
Nitrobenzene	U		0.0123	0.352	1	12/01/2020 19:32	WG1583806
n-Nitrosodimethylamine	U		0.0522	0.352	1	12/01/2020 19:32	WG1583806
n-Nitrosodiphenylamine	U		0.0266	0.352	1	12/01/2020 19:32	WG1583806
n-Nitrosodi-n-propylamine	U		0.0117	0.352	1	12/01/2020 19:32	WG1583806
Phenanthrene	0.00736	J	0.00698	0.0352	1	12/01/2020 19:32	WG1583806
Pyridine	U		0.0232	0.352	1	12/01/2020 19:32	WG1583806
Benzylbutyl phthalate	U		0.0110	0.352	1	12/01/2020 19:32	WG1583806
Bis(2-ethylhexyl)phthalate	U		0.0446	0.352	1	12/01/2020 19:32	WG1583806
Di-n-butyl phthalate	U		0.0120	0.352	1	12/01/2020 19:32	WG1583806
Diethyl phthalate	U		0.0116	0.352	1	12/01/2020 19:32	WG1583806
Dimethyl phthalate	U		0.0746	0.352	1	12/01/2020 19:32	WG1583806
Di-n-octyl phthalate	U		0.0238	0.352	1	12/01/2020 19:32	WG1583806
Pyrene	U		0.00684	0.0352	1	12/01/2020 19:32	WG1583806
1,2,4-Trichlorobenzene	U		0.0110	0.352	1	12/01/2020 19:32	WG1583806
4-Chloro-3-methylphenol	U		0.0114	0.352	1	12/01/2020 19:32	WG1583806
2-Chlorophenol	U		0.0116	0.352	1	12/01/2020 19:32	WG1583806
2,4-Dichlorophenol	U		0.0102	0.352	1	12/01/2020 19:32	WG1583806
2,4-Dimethylphenol	U		0.00919	0.352	1	12/01/2020 19:32	WG1583806
4,6-Dinitro-2-methylphenol	U		0.0797	0.352	1	12/01/2020 19:32	WG1583806
2,4-Dinitrophenol	U		0.0823	0.352	1	12/01/2020 19:32	WG1583806

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Methylphenol	U		0.0106	0.352	1	12/01/2020 19:32	WG1583806
3&4-Methyl Phenol	U		0.0110	0.352	1	12/01/2020 19:32	WG1583806
2-Nitrophenol	U		0.0126	0.352	1	12/01/2020 19:32	WG1583806
4-Nitrophenol	U		0.0110	0.352	1	12/01/2020 19:32	WG1583806
Pentachlorophenol	U		0.00946	0.352	1	12/01/2020 19:32	WG1583806
Phenol	U		0.0142	0.352	1	12/01/2020 19:32	WG1583806
2,4,6-Trichlorophenol	U		0.0113	0.352	1	12/01/2020 19:32	WG1583806
2,4,5-Trichlorophenol	U		0.0119	0.352	1	12/01/2020 19:32	WG1583806
(S) 2-Fluorophenol	*82.8*			*12.0-120*		*12/01/2020 19:32*	WG1583806
(S) Phenol-d5	*74.8*			*10.0-120*		*12/01/2020 19:32*	WG1583806
(S) Nitrobenzene-d5	*57.7*			*10.0-122*		*12/01/2020 19:32*	WG1583806
(S) 2-Fluorobiphenyl	*73.9*			*15.0-120*		*12/01/2020 19:32*	WG1583806
(S) 2,4,6-Tribromophenol	*99.1*			*10.0-127*		*12/01/2020 19:32*	WG1583806
(S) p-Terphenyl-d14	*80.4*			*10.0-120*		*12/01/2020 19:32*	WG1583806

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	12/01/2020 08:31	WG1584117

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0234	J	0.0186	0.0412	1	12/01/2020 09:05	WG1583991

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	0.931	J	0.561	2.06	1	12/01/2020 00:02	WG1583319
Arsenic	2.33	B	0.534	2.06	1	12/01/2020 00:02	WG1583319
Barium	55.7		0.0879	0.516	1	12/01/2020 00:02	WG1583319
Beryllium	0.338		0.0325	0.206	1	12/01/2020 00:02	WG1583319
Cadmium	0.134	J	0.0486	0.516	1	12/01/2020 00:02	WG1583319
Chromium	34.9		0.137	1.03	1	12/01/2020 00:02	WG1583319
Cobalt	8.03		0.0836	1.03	1	12/01/2020 00:02	WG1583319
Copper	13.1		0.412	2.06	1	12/01/2020 00:02	WG1583319
Lead	18.1		0.214	0.516	1	12/01/2020 00:02	WG1583319
Molybdenum	1.04	B	0.112	0.516	1	12/01/2020 00:02	WG1583319
Nickel	27.4		0.136	2.06	1	12/01/2020 00:02	WG1583319
Selenium	U		0.788	2.06	1	12/01/2020 00:02	WG1583319
Silver	U		0.131	1.03	1	12/01/2020 00:02	WG1583319
Thallium	U		0.406	2.06	1	12/01/2020 00:02	WG1583319
Vanadium	52.5		0.522	2.06	1	12/01/2020 00:02	WG1583319
Zinc	38.9		0.858	5.16	1	12/01/2020 00:02	WG1583319

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	1.03	B J	0.886	2.67	25	12/03/2020 08:36	WG1585567
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*77.0-120*		*12/03/2020 08:36*	WG1585567

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		0.0390	0.0534	1	12/01/2020 22:46	WG1584153
Acrylonitrile	U		0.00386	0.0134	1	12/01/2020 22:46	WG1584153
Benzene	U		0.000499	0.00107	1	12/01/2020 22:46	WG1584153
Bromobenzene	U		0.000961	0.0134	1	12/01/2020 22:46	WG1584153
Bromodichloromethane	U		0.000774	0.00267	1	12/01/2020 22:46	WG1584153
Bromoform	U	J4	0.00125	0.0267	1	12/01/2020 22:46	WG1584153
Bromomethane	U		0.00210	0.0134	1	12/01/2020 22:46	WG1584153
n-Butylbenzene	U		0.00561	0.0134	1	12/01/2020 22:46	WG1584153
sec-Butylbenzene	U		0.00308	0.0134	1	12/01/2020 22:46	WG1584153
tert-Butylbenzene	U		0.00208	0.00534	1	12/01/2020 22:46	WG1584153
Carbon tetrachloride	U		0.000959	0.00534	1	12/01/2020 22:46	WG1584153
Chlorobenzene	U		0.000224	0.00267	1	12/01/2020 22:46	WG1584153
Chlorodibromomethane	U	J4	0.000654	0.00267	1	12/01/2020 22:46	WG1584153
Chloroethane	U		0.00182	0.00534	1	12/01/2020 22:46	WG1584153
Chloroform	U		0.00110	0.00267	1	12/01/2020 22:46	WG1584153
Chloromethane	U		0.00465	0.0134	1	12/01/2020 22:46	WG1584153
2-Chlorotoluene	U		0.000924	0.00267	1	12/01/2020 22:46	WG1584153
4-Chlorotoluene	U		0.000481	0.00534	1	12/01/2020 22:46	WG1584153

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
1,2-Dibromo-3-Chloropropane	U		0.00417	0.0267	1	12/01/2020 22:46	WG1584153
1,2-Dibromoethane	U		0.000692	0.00267	1	12/01/2020 22:46	WG1584153
Dibromomethane	U		0.000801	0.00534	1	12/01/2020 22:46	WG1584153
1,2-Dichlorobenzene	U		0.000454	0.00534	1	12/01/2020 22:46	WG1584153
1,3-Dichlorobenzene	U		0.000641	0.00534	1	12/01/2020 22:46	WG1584153
1,4-Dichlorobenzene	U		0.000748	0.00534	1	12/01/2020 22:46	WG1584153
Dichlorodifluoromethane	U		0.00172	0.00267	1	12/01/2020 22:46	WG1584153
1,1-Dichloroethane	U		0.000524	0.00267	1	12/01/2020 22:46	WG1584153
1,2-Dichloroethane	U		0.000693	0.00267	1	12/01/2020 22:46	WG1584153
1,1-Dichloroethene	U		0.000647	0.00267	1	12/01/2020 22:46	WG1584153
cis-1,2-Dichloroethene	U		0.000784	0.00267	1	12/01/2020 22:46	WG1584153
trans-1,2-Dichloroethene	U		0.00111	0.00534	1	12/01/2020 22:46	WG1584153
1,2-Dichloropropane	U		0.00152	0.00534	1	12/01/2020 22:46	WG1584153
1,1-Dichloropropene	U		0.000864	0.00267	1	12/01/2020 22:46	WG1584153
1,3-Dichloropropane	U		0.000535	0.00534	1	12/01/2020 22:46	WG1584153
cis-1,3-Dichloropropene	U		0.000809	0.00267	1	12/01/2020 22:46	WG1584153
trans-1,3-Dichloropropene	U		0.00122	0.00534	1	12/01/2020 22:46	WG1584153
2,2-Dichloropropane	U	J4	0.00147	0.00267	1	12/01/2020 22:46	WG1584153
Di-isopropyl ether	U		0.000438	0.00107	1	12/01/2020 22:46	WG1584153
Ethylbenzene	U		0.000787	0.00267	1	12/01/2020 22:46	WG1584153
Hexachloro-1,3-butadiene	U		0.00641	0.0267	1	12/01/2020 22:46	WG1584153
Isopropylbenzene	U		0.000454	0.00267	1	12/01/2020 22:46	WG1584153
p-Isopropyltoluene	U		0.00272	0.00534	1	12/01/2020 22:46	WG1584153
2-Butanone (MEK)	U		0.0678	0.107	1	12/01/2020 22:46	WG1584153
Methylene Chloride	U		0.00709	0.0267	1	12/01/2020 22:46	WG1584153
4-Methyl-2-pentanone (MIBK)	U		0.00244	0.0267	1	12/01/2020 22:46	WG1584153
Methyl tert-butyl ether	U	J4	0.000374	0.00107	1	12/01/2020 22:46	WG1584153
Naphthalene	U		0.00521	0.0134	1	12/01/2020 22:46	WG1584153
n-Propylbenzene	U		0.00101	0.00534	1	12/01/2020 22:46	WG1584153
Styrene	U		0.000245	0.0134	1	12/01/2020 22:46	WG1584153
1,1,1,2-Tetrachloroethane	U		0.00101	0.00267	1	12/01/2020 22:46	WG1584153
1,1,2,2-Tetrachloroethane	U		0.000742	0.00267	1	12/01/2020 22:46	WG1584153
1,1,2-Trichlorotrifluoroethane	U		0.000805	0.00267	1	12/01/2020 22:46	WG1584153
Tetrachloroethene	U		0.000957	0.00267	1	12/01/2020 22:46	WG1584153
Toluene	U		0.00139	0.00534	1	12/01/2020 22:46	WG1584153
1,2,3-Trichlorobenzene	U		0.00783	0.0134	1	12/01/2020 22:46	WG1584153
1,2,4-Trichlorobenzene	U		0.00470	0.0134	1	12/01/2020 22:46	WG1584153
1,1,1-Trichloroethane	U		0.000986	0.00267	1	12/01/2020 22:46	WG1584153
1,1,2-Trichloroethane	U		0.000638	0.00267	1	12/01/2020 22:46	WG1584153
Trichloroethene	U		0.000624	0.00107	1	12/01/2020 22:46	WG1584153
Trichlorofluoromethane	U		0.000883	0.00267	1	12/01/2020 22:46	WG1584153
1,2,3-Trichloropropane	U		0.00173	0.0134	1	12/01/2020 22:46	WG1584153
1,2,4-Trimethylbenzene	U		0.00169	0.00534	1	12/01/2020 22:46	WG1584153
1,2,3-Trimethylbenzene	U		0.00169	0.00534	1	12/01/2020 22:46	WG1584153
1,3,5-Trimethylbenzene	U		0.00214	0.00534	1	12/01/2020 22:46	WG1584153
Vinyl chloride	U		0.00124	0.00267	1	12/01/2020 22:46	WG1584153
Xylenes, Total	U		0.000940	0.00694	1	12/01/2020 22:46	WG1584153
(S) Toluene-d8	*104*			*75.0-131*		*12/01/2020 22:46*	WG1584153
(S) 4-Bromofluorobenzene	*99.5*			*67.0-138*		*12/01/2020 22:46*	WG1584153
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*12/01/2020 22:46*	WG1584153

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	167	J	152	825	200	12/03/2020 17:39	WG1585052
C22-C32 Hydrocarbons	1780		274	825	200	12/03/2020 17:39	WG1585052
C32-C40 Hydrocarbons	1170		274	825	200	12/03/2020 17:39	WG1585052
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*12/03/2020 17:39*	WG1585052

Sample Narrative:

L1289379-06 WG1585052: Cannot run at lower dilution due to viscosity of extract

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0556	0.343	10	12/02/2020 02:13	WG1583806
Acenaphthylene	U		0.0484	0.343	10	12/02/2020 02:13	WG1583806
Anthracene	U		0.0612	0.343	10	12/02/2020 02:13	WG1583806
Benzo(a)anthracene	0.134	J	0.0605	0.343	10	12/02/2020 02:13	WG1583806
Benzo(b)fluoranthene	0.259	J	0.0640	0.343	10	12/02/2020 02:13	WG1583806
Benzo(k)fluoranthene	0.0797	J	0.0610	0.343	10	12/02/2020 02:13	WG1583806
Benzo(g,h,i)perylene	0.0793	J	0.0628	0.343	10	12/02/2020 02:13	WG1583806
Benzo(a)pyrene	0.160	J	0.0638	0.343	10	12/02/2020 02:13	WG1583806
Bis(2-chlorethoxy)methane	U		0.103	3.43	10	12/02/2020 02:13	WG1583806
Bis(2-chloroethyl)ether	U		0.113	3.43	10	12/02/2020 02:13	WG1583806
2,2-Oxybis(1-Chloropropane)	U		0.148	3.43	10	12/02/2020 02:13	WG1583806
4-Bromophenyl-phenylether	U		0.121	3.43	10	12/02/2020 02:13	WG1583806
2-Chloronaphthalene	U		0.0603	0.343	10	12/02/2020 02:13	WG1583806
4-Chlorophenyl-phenylether	U		0.120	3.43	10	12/02/2020 02:13	WG1583806
Chrysene	0.154	J	0.0683	0.343	10	12/02/2020 02:13	WG1583806
Dibenz(a,h)anthracene	U		0.0952	0.343	10	12/02/2020 02:13	WG1583806
3,3-Dichlorobenzidine	U		0.127	3.43	10	12/02/2020 02:13	WG1583806
2,4-Dinitrotoluene	U		0.0985	3.43	10	12/02/2020 02:13	WG1583806
2,6-Dinitrotoluene	U		0.112	3.43	10	12/02/2020 02:13	WG1583806
Fluoranthene	0.457		0.0620	0.343	10	12/02/2020 02:13	WG1583806
Fluorene	U		0.0559	0.343	10	12/02/2020 02:13	WG1583806
Hexachlorobenzene	U		0.122	3.43	10	12/02/2020 02:13	WG1583806
Hexachloro-1,3-butadiene	U		0.115	3.43	10	12/02/2020 02:13	WG1583806
Hexachlorocyclopentadiene	U		0.180	3.43	10	12/02/2020 02:13	WG1583806
Hexachloroethane	U		0.135	3.43	10	12/02/2020 02:13	WG1583806
Indeno(1,2,3-cd)pyrene	U		0.0970	0.343	10	12/02/2020 02:13	WG1583806
Isophorone	U		0.105	3.43	10	12/02/2020 02:13	WG1583806
Naphthalene	0.171	J	0.0862	0.343	10	12/02/2020 02:13	WG1583806
Nitrobenzene	U		0.120	3.43	10	12/02/2020 02:13	WG1583806
n-Nitrosodimethylamine	U		0.509	3.43	10	12/02/2020 02:13	WG1583806
n-Nitrosodiphenylamine	U		0.260	3.43	10	12/02/2020 02:13	WG1583806
n-Nitrosodi-n-propylamine	U		0.114	3.43	10	12/02/2020 02:13	WG1583806
Phenanthrene	0.247	J	0.0682	0.343	10	12/02/2020 02:13	WG1583806
Pyridine	U		0.227	3.43	10	12/02/2020 02:13	WG1583806
Benzylbutyl phthalate	U		0.107	3.43	10	12/02/2020 02:13	WG1583806
Bis(2-ethylhexyl)phthalate	U		0.435	3.43	10	12/02/2020 02:13	WG1583806
Di-n-butyl phthalate	U		0.118	3.43	10	12/02/2020 02:13	WG1583806
Diethyl phthalate	U		0.113	3.43	10	12/02/2020 02:13	WG1583806
Dimethyl phthalate	U		0.728	3.43	10	12/02/2020 02:13	WG1583806
Di-n-octyl phthalate	U		0.232	3.43	10	12/02/2020 02:13	WG1583806
Pyrene	0.385		0.0668	0.343	10	12/02/2020 02:13	WG1583806
1,2,4-Trichlorobenzene	U		0.107	3.43	10	12/02/2020 02:13	WG1583806
4-Chloro-3-methylphenol	U		0.111	3.43	10	12/02/2020 02:13	WG1583806
2-Chlorophenol	U		0.113	3.43	10	12/02/2020 02:13	WG1583806
2,4-Dichlorophenol	U		0.100	3.43	10	12/02/2020 02:13	WG1583806

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-Dimethylphenol	U		0.0897	3.43	10	12/02/2020 02:13	WG1583806
4,6-Dinitro-2-methylphenol	U		0.779	3.43	10	12/02/2020 02:13	WG1583806
2,4-Dinitrophenol	U		0.803	3.43	10	12/02/2020 02:13	WG1583806
2-Methylphenol	U		0.103	3.43	10	12/02/2020 02:13	WG1583806
3&4-Methyl Phenol	U		0.107	3.43	10	12/02/2020 02:13	WG1583806
2-Nitrophenol	U		0.123	3.43	10	12/02/2020 02:13	WG1583806
4-Nitrophenol	U		0.107	3.43	10	12/02/2020 02:13	WG1583806
Pentachlorophenol	U		0.0924	3.43	10	12/02/2020 02:13	WG1583806
Phenol	U		0.138	3.43	10	12/02/2020 02:13	WG1583806
2,4,6-Trichlorophenol	U		0.110	3.43	10	12/02/2020 02:13	WG1583806
2,4,5-Trichlorophenol	U		0.117	3.43	10	12/02/2020 02:13	WG1583806
(S) 2-Fluorophenol	*68.3*			*12.0-120*		*12/02/2020 02:13*	WG1583806
(S) Phenol-d5	*61.4*			*10.0-120*		*12/02/2020 02:13*	WG1583806
(S) Nitrobenzene-d5	*46.9*			*10.0-122*		*12/02/2020 02:13*	WG1583806
(S) 2-Fluorobiphenyl	*54.4*			*15.0-120*		*12/02/2020 02:13*	WG1583806
(S) 2,4,6-Tribromophenol	*82.7*			*10.0-127*		*12/02/2020 02:13*	WG1583806
(S) p-Terphenyl-d14	*59.4*			*10.0-120*		*12/02/2020 02:13*	WG1583806

Sample Narrative:

L1289379-06 WG1583806: 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	85.1		1	12/01/2020 08:31	WG1584117

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		0.0212	0.0470	1	12/01/2020 09:07	WG1583991

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	1.33	J	0.640	2.35	1	12/01/2020 00:05	WG1583319
Arsenic	1.86	B J	0.609	2.35	1	12/01/2020 00:05	WG1583319
Barium	60.9		0.100	0.588	1	12/01/2020 00:05	WG1583319
Beryllium	0.358		0.0370	0.235	1	12/01/2020 00:05	WG1583319
Cadmium	U		0.0554	0.588	1	12/01/2020 00:05	WG1583319
Chromium	67.9		0.156	1.18	1	12/01/2020 00:05	WG1583319
Cobalt	10.8		0.0953	1.18	1	12/01/2020 00:05	WG1583319
Copper	13.1		0.470	2.35	1	12/01/2020 00:05	WG1583319
Lead	12.3		0.245	0.588	1	12/01/2020 00:05	WG1583319
Molybdenum	0.468	B J	0.128	0.588	1	12/01/2020 00:05	WG1583319
Nickel	53.0		0.155	2.35	1	12/01/2020 00:05	WG1583319
Selenium	1.28	J	0.898	2.35	1	12/01/2020 00:05	WG1583319
Silver	U		0.149	1.18	1	12/01/2020 00:05	WG1583319
Thallium	U		0.463	2.35	1	12/01/2020 00:05	WG1583319
Vanadium	56.5		0.595	2.35	1	12/01/2020 00:05	WG1583319
Zinc	42.1		0.978	5.88	1	12/01/2020 00:05	WG1583319

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		1.18	3.54	25	12/03/2020 08:59	WG1585567
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*12/03/2020 08:59*	WG1585567

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		0.0517	0.0708	1	12/01/2020 23:05	WG1584153
Acrylonitrile	U		0.00511	0.0177	1	12/01/2020 23:05	WG1584153
Benzene	0.00259		0.000661	0.00142	1	12/01/2020 23:05	WG1584153
Bromobenzene	U		0.00127	0.0177	1	12/01/2020 23:05	WG1584153
Bromodichloromethane	U		0.00103	0.00354	1	12/01/2020 23:05	WG1584153
Bromoform	U	J4	0.00166	0.0354	1	12/01/2020 23:05	WG1584153
Bromomethane	U	J3	0.00279	0.0177	1	12/01/2020 23:05	WG1584153
n-Butylbenzene	U		0.00743	0.0177	1	12/01/2020 23:05	WG1584153
sec-Butylbenzene	U		0.00408	0.0177	1	12/01/2020 23:05	WG1584153
tert-Butylbenzene	U		0.00276	0.00708	1	12/01/2020 23:05	WG1584153
Carbon tetrachloride	U		0.00127	0.00708	1	12/01/2020 23:05	WG1584153
Chlorobenzene	U		0.000297	0.00354	1	12/01/2020 23:05	WG1584153
Chlorodibromomethane	U	J4	0.000867	0.00354	1	12/01/2020 23:05	WG1584153
Chloroethane	U	J3	0.00241	0.00708	1	12/01/2020 23:05	WG1584153
Chloroform	U		0.00146	0.00354	1	12/01/2020 23:05	WG1584153
Chloromethane	U		0.00616	0.0177	1	12/01/2020 23:05	WG1584153
2-Chlorotoluene	U		0.00122	0.00354	1	12/01/2020 23:05	WG1584153
4-Chlorotoluene	U		0.000637	0.00708	1	12/01/2020 23:05	WG1584153

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
1,2-Dibromo-3-Chloropropane	U		0.00552	0.0354	1	12/01/2020 23:05	WG1584153
1,2-Dibromoethane	U		0.000918	0.00354	1	12/01/2020 23:05	WG1584153
Dibromomethane	U		0.00106	0.00708	1	12/01/2020 23:05	WG1584153
1,2-Dichlorobenzene	U		0.000602	0.00708	1	12/01/2020 23:05	WG1584153
1,3-Dichlorobenzene	U		0.000850	0.00708	1	12/01/2020 23:05	WG1584153
1,4-Dichlorobenzene	U		0.000991	0.00708	1	12/01/2020 23:05	WG1584153
Dichlorodifluoromethane	U		0.00228	0.00354	1	12/01/2020 23:05	WG1584153
1,1-Dichloroethane	U		0.000695	0.00354	1	12/01/2020 23:05	WG1584153
1,2-Dichloroethane	U		0.000919	0.00354	1	12/01/2020 23:05	WG1584153
1,1-Dichloroethene	U	J3	0.000858	0.00354	1	12/01/2020 23:05	WG1584153
cis-1,2-Dichloroethene	U		0.00104	0.00354	1	12/01/2020 23:05	WG1584153
trans-1,2-Dichloroethene	U		0.00147	0.00708	1	12/01/2020 23:05	WG1584153
1,2-Dichloropropane	U		0.00201	0.00708	1	12/01/2020 23:05	WG1584153
1,1-Dichloropropene	U		0.00115	0.00354	1	12/01/2020 23:05	WG1584153
1,3-Dichloropropane	U		0.000709	0.00708	1	12/01/2020 23:05	WG1584153
cis-1,3-Dichloropropene	U		0.00107	0.00354	1	12/01/2020 23:05	WG1584153
trans-1,3-Dichloropropene	U		0.00161	0.00708	1	12/01/2020 23:05	WG1584153
2,2-Dichloropropane	U	J3 J4	0.00195	0.00354	1	12/01/2020 23:05	WG1584153
Di-isopropyl ether	U		0.000581	0.00142	1	12/01/2020 23:05	WG1584153
Ethylbenzene	0.00607		0.00104	0.00354	1	12/01/2020 23:05	WG1584153
Hexachloro-1,3-butadiene	U		0.00850	0.0354	1	12/01/2020 23:05	WG1584153
Isopropylbenzene	U		0.000602	0.00354	1	12/01/2020 23:05	WG1584153
p-Isopropyltoluene	U		0.00361	0.00708	1	12/01/2020 23:05	WG1584153
2-Butanone (MEK)	U		0.0899	0.142	1	12/01/2020 23:05	WG1584153
Methylene Chloride	U		0.00940	0.0354	1	12/01/2020 23:05	WG1584153
4-Methyl-2-pentanone (MIBK)	U		0.00323	0.0354	1	12/01/2020 23:05	WG1584153
Methyl tert-butyl ether	U	J3 J4	0.000496	0.00142	1	12/01/2020 23:05	WG1584153
Naphthalene	0.0166	J	0.00691	0.0177	1	12/01/2020 23:05	WG1584153
n-Propylbenzene	0.00263	J	0.00135	0.00708	1	12/01/2020 23:05	WG1584153
Styrene	U		0.000324	0.0177	1	12/01/2020 23:05	WG1584153
1,1,1,2-Tetrachloroethane	U		0.00134	0.00354	1	12/01/2020 23:05	WG1584153
1,1,2,2-Tetrachloroethane	U		0.000984	0.00354	1	12/01/2020 23:05	WG1584153
1,1,2-Trichlorotrifluoroethane	U	J3	0.00107	0.00354	1	12/01/2020 23:05	WG1584153
Tetrachloroethene	U		0.00127	0.00354	1	12/01/2020 23:05	WG1584153
Toluene	U		0.00184	0.00708	1	12/01/2020 23:05	WG1584153
1,2,3-Trichlorobenzene	U		0.0104	0.0177	1	12/01/2020 23:05	WG1584153
1,2,4-Trichlorobenzene	U		0.00623	0.0177	1	12/01/2020 23:05	WG1584153
1,1,1-Trichloroethane	U	J3	0.00131	0.00354	1	12/01/2020 23:05	WG1584153
1,1,2-Trichloroethane	U		0.000845	0.00354	1	12/01/2020 23:05	WG1584153
Trichloroethene	U		0.000827	0.00142	1	12/01/2020 23:05	WG1584153
Trichlorofluoromethane	U	J3	0.00117	0.00354	1	12/01/2020 23:05	WG1584153
1,2,3-Trichloropropane	U		0.00229	0.0177	1	12/01/2020 23:05	WG1584153
1,2,4-Trimethylbenzene	U		0.00224	0.00708	1	12/01/2020 23:05	WG1584153
1,2,3-Trimethylbenzene	0.00804		0.00224	0.00708	1	12/01/2020 23:05	WG1584153
1,3,5-Trimethylbenzene	U		0.00283	0.00708	1	12/01/2020 23:05	WG1584153
Vinyl chloride	U		0.00164	0.00354	1	12/01/2020 23:05	WG1584153
Xylenes, Total	0.00214	J	0.00125	0.00920	1	12/01/2020 23:05	WG1584153
(S) Toluene-d8	*105*			*75.0-131*		*12/01/2020 23:05*	WG1584153
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*12/01/2020 23:05*	WG1584153
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*12/01/2020 23:05*	WG1584153

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C12-C22 Hydrocarbons	9.38	J	4.31	23.5	5	12/02/2020 21:28	WG1585052
C22-C32 Hydrocarbons	42.9		7.82	23.5	5	12/02/2020 21:28	WG1585052
C32-C40 Hydrocarbons	58.7		7.82	23.5	5	12/02/2020 21:28	WG1585052
(S) o-Terphenyl	*82.4*			*18.0-148*		*12/02/2020 21:28*	WG1585052

Sample Narrative:

L1289379-07 WG1585052: Dilution due to matrix.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	0.0152	J	0.00634	0.0391	1	12/01/2020 23:53	WG1583806
Acenaphthylene	U		0.00551	0.0391	1	12/01/2020 23:53	WG1583806
Anthracene	U		0.00697	0.0391	1	12/01/2020 23:53	WG1583806
Benzo(a)anthracene	U		0.00690	0.0391	1	12/01/2020 23:53	WG1583806
Benzo(b)fluoranthene	U		0.00730	0.0391	1	12/01/2020 23:53	WG1583806
Benzo(k)fluoranthene	U		0.00696	0.0391	1	12/01/2020 23:53	WG1583806
Benzo(g,h,i)perylene	U		0.00716	0.0391	1	12/01/2020 23:53	WG1583806
Benzo(a)pyrene	U		0.00728	0.0391	1	12/01/2020 23:53	WG1583806
Bis(2-chlorethoxy)methane	U		0.0118	0.391	1	12/01/2020 23:53	WG1583806
Bis(2-chloroethyl)ether	U		0.0129	0.391	1	12/01/2020 23:53	WG1583806
2,2-Oxybis(1-Chloropropane)	U		0.0169	0.391	1	12/01/2020 23:53	WG1583806
4-Bromophenyl-phenylether	U		0.0138	0.391	1	12/01/2020 23:53	WG1583806
2-Chloronaphthalene	U		0.00688	0.0391	1	12/01/2020 23:53	WG1583806
4-Chlorophenyl-phenylether	U		0.0136	0.391	1	12/01/2020 23:53	WG1583806
Chrysene	U		0.00778	0.0391	1	12/01/2020 23:53	WG1583806
Dibenz(a,h)anthracene	U		0.0109	0.0391	1	12/01/2020 23:53	WG1583806
3,3-Dichlorobenzidine	U		0.0145	0.391	1	12/01/2020 23:53	WG1583806
2,4-Dinitrotoluene	U		0.0112	0.391	1	12/01/2020 23:53	WG1583806
2,6-Dinitrotoluene	U		0.0128	0.391	1	12/01/2020 23:53	WG1583806
Fluoranthene	U		0.00707	0.0391	1	12/01/2020 23:53	WG1583806
Fluorene	0.00674	J	0.00637	0.0391	1	12/01/2020 23:53	WG1583806
Hexachlorobenzene	U		0.0139	0.391	1	12/01/2020 23:53	WG1583806
Hexachloro-1,3-butadiene	U		0.0132	0.391	1	12/01/2020 23:53	WG1583806
Hexachlorocyclopentadiene	U		0.0206	0.391	1	12/01/2020 23:53	WG1583806
Hexachloroethane	U		0.0154	0.391	1	12/01/2020 23:53	WG1583806
Indeno(1,2,3-cd)pyrene	U		0.0111	0.0391	1	12/01/2020 23:53	WG1583806
Isophorone	U		0.0120	0.391	1	12/01/2020 23:53	WG1583806
Naphthalene	0.225		0.00983	0.0391	1	12/01/2020 23:53	WG1583806
Nitrobenzene	U		0.0136	0.391	1	12/01/2020 23:53	WG1583806
n-Nitrosodimethylamine	U		0.0581	0.391	1	12/01/2020 23:53	WG1583806
n-Nitrosodiphenylamine	U		0.0296	0.391	1	12/01/2020 23:53	WG1583806
n-Nitrosodi-n-propylamine	U		0.0130	0.391	1	12/01/2020 23:53	WG1583806
Phenanthrene	0.0120	J	0.00777	0.0391	1	12/01/2020 23:53	WG1583806
Pyridine	U		0.0259	0.391	1	12/01/2020 23:53	WG1583806
Benzylbutyl phthalate	U		0.0122	0.391	1	12/01/2020 23:53	WG1583806
Bis(2-ethylhexyl)phthalate	U		0.0496	0.391	1	12/01/2020 23:53	WG1583806
Di-n-butyl phthalate	U		0.0134	0.391	1	12/01/2020 23:53	WG1583806
Diethyl phthalate	U		0.0129	0.391	1	12/01/2020 23:53	WG1583806
Dimethyl phthalate	U		0.0830	0.391	1	12/01/2020 23:53	WG1583806
Di-n-octyl phthalate	U		0.0265	0.391	1	12/01/2020 23:53	WG1583806
Pyrene	U		0.00762	0.0391	1	12/01/2020 23:53	WG1583806
1,2,4-Trichlorobenzene	U		0.0122	0.391	1	12/01/2020 23:53	WG1583806
4-Chloro-3-methylphenol	U		0.0127	0.391	1	12/01/2020 23:53	WG1583806
2-Chlorophenol	U		0.0129	0.391	1	12/01/2020 23:53	WG1583806
2,4-Dichlorophenol	U		0.0114	0.391	1	12/01/2020 23:53	WG1583806

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,4-Dimethylphenol	U		0.0102	0.391	1	12/01/2020 23:53	WG1583806
4,6-Dinitro-2-methylphenol	U		0.0888	0.391	1	12/01/2020 23:53	WG1583806
2,4-Dinitrophenol	U		0.0916	0.391	1	12/01/2020 23:53	WG1583806
2-Methylphenol	U		0.0118	0.391	1	12/01/2020 23:53	WG1583806
3&4-Methyl Phenol	U		0.0122	0.391	1	12/01/2020 23:53	WG1583806
2-Nitrophenol	U		0.0140	0.391	1	12/01/2020 23:53	WG1583806
4-Nitrophenol	U		0.0122	0.391	1	12/01/2020 23:53	WG1583806
Pentachlorophenol	U		0.0105	0.391	1	12/01/2020 23:53	WG1583806
Phenol	U		0.0158	0.391	1	12/01/2020 23:53	WG1583806
2,4,6-Trichlorophenol	U		0.0126	0.391	1	12/01/2020 23:53	WG1583806
2,4,5-Trichlorophenol	U		0.0133	0.391	1	12/01/2020 23:53	WG1583806
(S) 2-Fluorophenol	*77.2*			*12.0-120*		*12/01/2020 23:53*	WG1583806
(S) Phenol-d5	*74.1*			*10.0-120*		*12/01/2020 23:53*	WG1583806
(S) Nitrobenzene-d5	*56.9*			*10.0-122*		*12/01/2020 23:53*	WG1583806
(S) 2-Fluorobiphenyl	*73.7*			*15.0-120*		*12/01/2020 23:53*	WG1583806
(S) 2,4,6-Tribromophenol	*108*			*10.0-127*		*12/01/2020 23:53*	WG1583806
(S) p-Terphenyl-d14	*76.6*			*10.0-120*		*12/01/2020 23:53*	WG1583806

Method Blank (MB)

(MB) R3599144-1 12/01/20 08:45

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

L1289379-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1289379-04 12/01/20 08:45 • (DUP) R3599144-3 12/01/20 08:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.8	93.1	1	1.80		10

Laboratory Control Sample (LCS)

(LCS) R3599144-2 12/01/20 08:45

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) R3599141-1 12/01/20 08:31

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

L1289476-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1289476-07 12/01/20 08:31 • (DUP) R3599141-3 12/01/20 08:31

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.4	85.2	1	2.04		10

Laboratory Control Sample (LCS)

(LCS) R3599141-2 12/01/20 08:31

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) R3598912-1 12/01/20 07:58

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) R3598912-2 12/01/20 08:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.456	91.2	80.0-120	

L1288970-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288970-09 12/01/20 08:03 • (MS) R3598912-3 12/01/20 08:06 • (MSD) R3598912-4 12/01/20 08:08

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.0899	0.523	0.499	86.6	81.9	1	75.0-125			4.56	20

Method Blank (MB)

(MB) R3599433-1 12/02/20 07:20

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) R3599433-2 12/02/20 07:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.511	102	80.0-120	

L1288982-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288982-01 12/02/20 07:24 • (MS) R3599433-3 12/02/20 07:26 • (MSD) R3599433-4 12/02/20 07:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.112	0.679	0.900	72.3	100	1	75.0-125	J6	J3	27.9	20

Method Blank (MB)

(MB) R3598814-7 12/01/20 03:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.544	2.00
Arsenic	0.519	J	0.518	2.00
Barium	U		0.0852	0.500
Beryllium	U		0.0315	0.200
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Cobalt	U		0.0811	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Molybdenum	0.134	J	0.109	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Vanadium	U		0.506	2.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3598814-2 11/30/20 22:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	106	106	80.0-120	
Arsenic	100	96.9	96.9	80.0-120	
Barium	100	109	109	80.0-120	
Beryllium	100	110	110	80.0-120	
Cadmium	100	104	104	80.0-120	
Chromium	100	105	105	80.0-120	
Cobalt	100	108	108	80.0-120	
Copper	100	109	109	80.0-120	
Lead	100	105	105	80.0-120	
Molybdenum	100	110	110	80.0-120	
Nickel	100	106	106	80.0-120	
Selenium	100	106	106	80.0-120	
Silver	20.0	19.3	96.3	80.0-120	
Thallium	100	101	101	80.0-120	
Vanadium	100	107	107	80.0-120	
Zinc	100	103	103	80.0-120	

L1288377-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288377-07 11/30/20 22:53 • (MS) R3598814-5 11/30/20 23:01 • (MSD) R3598814-6 11/30/20 23:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	1.34	59.7	59.2	58.4	57.8	1	75.0-125	J6	J6	0.902	20
Arsenic	100	9.85	117	113	107	104	1	75.0-125			2.77	20
Barium	100	446	462	481	15.8	35.3	1	75.0-125	V	V	4.12	20
Beryllium	100	0.469	110	110	110	110	1	75.0-125			0.333	20
Cadmium	100	0.0856	112	111	112	111	1	75.0-125			0.703	20
Chromium	100	12.0	114	113	102	101	1	75.0-125			0.541	20
Cobalt	100	5.18	118	118	113	113	1	75.0-125			0.153	20
Copper	100	15.1	123	123	108	108	1	75.0-125			0.291	20
Lead	100	37.2	115	113	77.7	76.1	1	75.0-125			1.40	20
Molybdenum	100	0.651	107	107	107	106	1	75.0-125			0.495	20
Nickel	100	15.3	124	124	109	109	1	75.0-125			0.102	20
Selenium	100	U	114	112	114	112	1	75.0-125			1.58	20
Silver	20.0	U	20.9	20.8	104	104	1	75.0-125			0.549	20
Thallium	100	U	103	102	103	102	1	75.0-125			1.59	20
Vanadium	100	31.8	136	136	105	104	1	75.0-125			0.338	20
Zinc	100	189	117	118	0.000	0.000	1	75.0-125	J6	J6	0.747	20

Method Blank (MB)

(MB) R3599032-1 12/01/20 07:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.544	2.00
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Beryllium	U		0.0315	0.200
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Cobalt	U		0.0811	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Molybdenum	U		0.109	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Thallium	U		0.394	2.00
Vanadium	U		0.506	2.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R3599032-2 12/01/20 07:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Antimony	100	112	112	80.0-120	
Arsenic	100	109	109	80.0-120	
Barium	100	117	117	80.0-120	
Beryllium	100	116	116	80.0-120	
Cadmium	100	111	111	80.0-120	
Chromium	100	113	113	80.0-120	
Cobalt	100	114	114	80.0-120	
Copper	100	114	114	80.0-120	
Lead	100	113	113	80.0-120	
Molybdenum	100	117	117	80.0-120	
Nickel	100	113	113	80.0-120	
Selenium	100	112	112	80.0-120	
Silver	20.0	20.6	103	80.0-120	
Thallium	100	108	108	80.0-120	
Vanadium	100	115	115	80.0-120	
Zinc	100	111	111	80.0-120	

L1288705-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288705-02 12/01/20 07:30 • (MS) R3599032-5 12/01/20 07:38 • (MSD) R3599032-6 12/01/20 07:40

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	100	1.22	52.7	53.8	51.5	52.6	1	75.0-125	J6	J6	2.12	20
Arsenic	100	8.51	105	107	96.4	98.9	1	75.0-125			2.39	20
Barium	100	45.0	169	163	124	118	1	75.0-125			3.61	20
Beryllium	100	0.490	109	106	108	105	1	75.0-125			2.56	20
Cadmium	100	U	103	100	103	100	1	75.0-125			3.04	20
Chromium	100	13.5	119	116	105	102	1	75.0-125			2.87	20
Cobalt	100	7.33	123	121	115	113	1	75.0-125			1.85	20
Copper	100	20.6	125	120	104	99.0	1	75.0-125			4.47	20
Lead	100	13.0	120	121	107	108	1	75.0-125			0.966	20
Molybdenum	100	8.84	108	106	99.2	96.7	1	75.0-125			2.38	20
Nickel	100	12.8	124	122	111	109	1	75.0-125			1.92	20
Selenium	100	1.26	104	99.9	103	98.6	1	75.0-125			4.08	20
Silver	20.0	U	18.6	18.1	93.2	90.3	1	75.0-125			3.15	20
Thallium	100	U	101	97.5	101	97.5	1	75.0-125			3.05	20
Vanadium	100	25.6	136	136	110	110	1	75.0-125			0.245	20
Zinc	100	23.3	132	129	108	106	1	75.0-125			2.11	20

Method Blank (MB)

(MB) R3599597-2 12/02/20 12:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	0.0600	J	0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3599597-1 12/02/20 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	6.41	117	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*107*	*77.0-120*	

Method Blank (MB)

(MB) R3599912-2 12/03/20 06:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHG C5 - C12	0.0344	J	0.0332	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3599912-1 12/03/20 04:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPHG C5 - C12	5.50	6.06	110	72.0-125	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

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

Method Blank (MB)

(MB) R3599308-2 12/01/20 12:34

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) R3599308-2 12/01/20 12:34

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)	0.0751	J	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	*107*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3599308-1 12/01/20 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.477	76.3	10.0-160	
Acrylonitrile	0.625	0.600	96.0	45.0-153	
Benzene	0.125	0.132	106	70.0-123	
Bromobenzene	0.125	0.124	99.2	73.0-121	
Bromodichloromethane	0.125	0.100	80.0	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3599308-1 12/01/20 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.0751	60.1	64.0-132	J4
Bromomethane	0.125	0.131	105	56.0-147	
n-Butylbenzene	0.125	0.126	101	68.0-135	
sec-Butylbenzene	0.125	0.132	106	74.0-130	
tert-Butylbenzene	0.125	0.131	105	75.0-127	
Carbon tetrachloride	0.125	0.122	97.6	66.0-128	
Chlorobenzene	0.125	0.136	109	76.0-128	
Chlorodibromomethane	0.125	0.0920	73.6	74.0-127	J4
Chloroethane	0.125	0.131	105	61.0-134	
Chloroform	0.125	0.133	106	72.0-123	
Chloromethane	0.125	0.135	108	51.0-138	
2-Chlorotoluene	0.125	0.134	107	75.0-124	
4-Chlorotoluene	0.125	0.129	103	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.0790	63.2	59.0-130	
1,2-Dibromoethane	0.125	0.128	102	74.0-128	
Dibromomethane	0.125	0.131	105	75.0-122	
1,2-Dichlorobenzene	0.125	0.129	103	76.0-124	
1,3-Dichlorobenzene	0.125	0.132	106	76.0-125	
1,4-Dichlorobenzene	0.125	0.121	96.8	77.0-121	
Dichlorodifluoromethane	0.125	0.123	98.4	43.0-156	
1,1-Dichloroethane	0.125	0.133	106	70.0-127	
1,2-Dichloroethane	0.125	0.127	102	65.0-131	
1,1-Dichloroethene	0.125	0.147	118	65.0-131	
cis-1,2-Dichloroethene	0.125	0.131	105	73.0-125	
trans-1,2-Dichloroethene	0.125	0.135	108	71.0-125	
1,2-Dichloropropane	0.125	0.144	115	74.0-125	
1,1-Dichloropropene	0.125	0.135	108	73.0-125	
1,3-Dichloropropane	0.125	0.133	106	80.0-125	
cis-1,3-Dichloropropene	0.125	0.106	84.8	76.0-127	
trans-1,3-Dichloropropene	0.125	0.103	82.4	73.0-127	
2,2-Dichloropropane	0.125	0.174	139	59.0-135	J4
Di-isopropyl ether	0.125	0.142	114	60.0-136	
Ethylbenzene	0.125	0.141	113	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.125	100	57.0-150	
Isopropylbenzene	0.125	0.144	115	72.0-127	
p-Isopropyltoluene	0.125	0.130	104	72.0-133	
2-Butanone (MEK)	0.625	0.703	112	30.0-160	
Methylene Chloride	0.125	0.130	104	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.707	113	56.0-143	
Methyl tert-butyl ether	0.125	0.179	143	66.0-132	J4

Laboratory Control Sample (LCS)

(LCS) R3599308-1 12/01/20 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.124	99.2	59.0-130	
n-Propylbenzene	0.125	0.133	106	74.0-126	
Styrene	0.125	0.144	115	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.104	83.2	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.125	100	68.0-128	
Tetrachloroethene	0.125	0.156	125	70.0-136	
Toluene	0.125	0.142	114	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.140	112	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.126	101	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.122	97.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.139	111	69.0-126	
1,1,2-Trichloroethane	0.125	0.138	110	78.0-123	
Trichloroethene	0.125	0.150	120	76.0-126	
Trichlorofluoromethane	0.125	0.137	110	61.0-142	
1,2,3-Trichloropropane	0.125	0.123	98.4	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.127	102	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.124	99.2	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.126	101	73.0-127	
Vinyl chloride	0.125	0.124	99.2	63.0-134	
Xylenes, Total	0.375	0.436	116	72.0-127	
(S) Toluene-d8			*103*	*75.0-131*	
(S) 4-Bromofluorobenzene			*108*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*101*	*70.0-130*	

L1289379-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289379-07 12/01/20 23:05 • (MS) R3599308-3 12/01/20 23:24 • (MSD) R3599308-4 12/01/20 23:43

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 %
Acetone	0.649	U	0.884	0.925	136	143	1	10.0-160			4.54	40
Acrylonitrile	0.649	U	0.633	0.717	97.6	110	1	10.0-160			12.4	40
Benzene	0.130	0.00259	0.105	0.133	78.9	100	1	10.0-149			23.4	37
Bromobenzene	0.130	U	0.0987	0.116	76.2	89.7	1	10.0-156			16.3	38
Bromodichloromethane	0.130	U	0.0517	0.0658	39.9	50.8	1	10.0-143			24.1	37
Bromoform	0.130	U	0.0389	0.0464	30.1	35.8	1	10.0-146			17.6	36
Bromomethane	0.130	U	0.0630	0.0983	48.6	75.8	1	10.0-149		J3	43.7	38
n-Butylbenzene	0.130	U	0.100	0.127	77.5	97.8	1	10.0-160			23.2	40
sec-Butylbenzene	0.130	U	0.105	0.128	81.2	99.0	1	10.0-159			19.8	39
tert-Butylbenzene	0.130	U	0.105	0.127	81.3	98.4	1	10.0-156			19.0	39

L1289379-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289379-07 12/01/20 23:05 • (MS) R3599308-3 12/01/20 23:24 • (MSD) R3599308-4 12/01/20 23:43

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 %
Carbon tetrachloride	0.130	U	0.0588	0.0844	45.4	65.1	1	10.0-145			35.8	37
Chlorobenzene	0.130	U	0.111	0.129	85.4	99.6	1	10.0-152			15.4	39
Chlorodibromomethane	0.130	U	0.0447	0.0527	34.5	40.7	1	10.0-146			16.3	37
Chloroethane	0.130	U	0.102	0.186	79.0	143	1	10.0-146		J3	57.7	40
Chloroform	0.130	U	0.0902	0.120	69.6	92.9	1	10.0-146			28.6	37
Chloromethane	0.130	U	0.124	0.143	96.0	110	1	10.0-159			14.0	37
2-Chlorotoluene	0.130	U	0.107	0.129	82.7	99.9	1	10.0-159			18.8	38
4-Chlorotoluene	0.130	U	0.107	0.126	82.6	96.9	1	10.0-155			15.9	39
1,2-Dibromo-3-Chloropropane	0.130	U	0.0385	0.0436	29.7	33.7	1	10.0-151			12.4	39
1,2-Dibromoethane	0.130	U	0.0814	0.0977	62.8	75.4	1	10.0-148			18.2	34
Dibromomethane	0.130	U	0.0892	0.114	68.9	87.7	1	10.0-147			24.0	35
1,2-Dichlorobenzene	0.130	U	0.111	0.127	85.6	98.4	1	10.0-155			13.9	37
1,3-Dichlorobenzene	0.130	U	0.109	0.128	84.5	98.6	1	10.0-153			15.4	38
1,4-Dichlorobenzene	0.130	U	0.104	0.121	80.3	93.2	1	10.0-151			14.9	38
Dichlorodifluoromethane	0.130	U	0.112	0.133	86.3	103	1	10.0-160			17.2	35
1,1-Dichloroethane	0.130	U	0.0966	0.128	74.5	98.6	1	10.0-147			27.8	37
1,2-Dichloroethane	0.130	U	0.105	0.127	80.7	97.8	1	10.0-148			19.2	35
1,1-Dichloroethene	0.130	U	0.0769	0.132	59.3	102	1	10.0-155		J3	52.9	37
cis-1,2-Dichloroethene	0.130	U	0.0949	0.121	73.2	93.4	1	10.0-149			24.3	37
trans-1,2-Dichloroethene	0.130	U	0.0827	0.120	63.8	92.3	1	10.0-150			36.5	37
1,2-Dichloropropane	0.130	U	0.112	0.135	86.2	104	1	10.0-148			18.5	37
1,1-Dichloropropene	0.130	U	0.103	0.135	79.5	104	1	10.0-153			27.1	35
1,3-Dichloropropane	0.130	U	0.115	0.131	89.1	101	1	10.0-154			12.3	35
cis-1,3-Dichloropropene	0.130	U	0.0589	0.0782	45.5	60.3	1	10.0-151			28.1	37
trans-1,3-Dichloropropene	0.130	U	0.0595	0.0736	45.9	56.8	1	10.0-148			21.3	37
2,2-Dichloropropane	0.130	U	0.0816	0.125	63.0	96.7	1	10.0-138		J3	42.3	36
Di-isopropyl ether	0.130	U	0.112	0.138	86.1	107	1	10.0-147			21.2	36
Ethylbenzene	0.130	0.00607	0.120	0.139	87.7	102	1	10.0-160			14.8	38
Hexachloro-1,3-butadiene	0.130	U	0.0898	0.116	69.3	89.6	1	10.0-160			25.6	40
Isopropylbenzene	0.130	U	0.113	0.140	87.5	108	1	10.0-155			21.1	38
p-Isopropyltoluene	0.130	U	0.101	0.126	77.9	97.5	1	10.0-160			22.3	40
2-Butanone (MEK)	0.649	U	0.675	0.797	104	123	1	10.0-160			16.5	40
Methylene Chloride	0.130	U	0.0960	0.129	74.1	99.5	1	10.0-141			29.2	37
4-Methyl-2-pentanone (MIBK)	0.649	U	0.639	0.663	98.5	102	1	10.0-160			3.70	35
Methyl tert-butyl ether	0.130	U	0.126	0.180	97.3	139	1	11.0-147		J3	35.2	35
Naphthalene	0.130	0.0166	0.115	0.126	76.2	84.8	1	10.0-160			9.26	36
n-Propylbenzene	0.130	0.00263	0.111	0.135	83.4	102	1	10.0-158			19.8	38
Styrene	0.130	U	0.111	0.133	85.9	103	1	10.0-160			17.7	40
1,1,1,2-Tetrachloroethane	0.130	U	0.0564	0.0704	43.5	54.3	1	10.0-149			22.1	39

L1289379-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289379-07 12/01/20 23:05 • (MS) R3599308-3 12/01/20 23:24 • (MSD) R3599308-4 12/01/20 23:43

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 %
1,1,2,2-Tetrachloroethane	0.130	U	0.0790	0.0981	61.0	75.7	1	10.0-160			21.6	35
Tetrachloroethene	0.130	U	0.119	0.152	92.0	117	1	10.0-156			23.8	39
Toluene	0.130	U	0.114	0.137	87.8	106	1	10.0-156			18.9	38
1,1,2-Trichlorotrifluoroethane	0.130	U	0.0942	0.156	72.7	120	1	10.0-160		J3	49.3	36
1,2,3-Trichlorobenzene	0.130	U	0.0984	0.117	76.0	90.5	1	10.0-160			17.5	40
1,2,4-Trichlorobenzene	0.130	U	0.0983	0.117	75.8	90.6	1	10.0-160			17.7	40
1,1,1-Trichloroethane	0.130	U	0.0593	0.0976	45.8	75.3	1	10.0-144		J3	48.7	35
1,1,2-Trichloroethane	0.130	U	0.112	0.130	86.8	100	1	10.0-160			14.3	35
Trichloroethene	0.130	U	0.121	0.147	93.6	114	1	10.0-156			19.4	38
Trichlorofluoromethane	0.130	U	0.0868	0.140	67.0	108	1	10.0-160		J3	47.2	40
1,2,3-Trichloropropane	0.130	U	0.106	0.112	81.5	86.8	1	10.0-156			6.23	35
1,2,3-Trimethylbenzene	0.130	0.00804	0.107	0.129	76.2	93.4	1	10.0-160			18.9	36
1,2,4-Trimethylbenzene	0.130	U	0.101	0.118	78.0	91.3	1	10.0-160			15.6	36
1,3,5-Trimethylbenzene	0.130	U	0.103	0.122	79.8	94.4	1	10.0-160			16.8	38
Vinyl chloride	0.130	U	0.0514	0.0588	39.7	45.4	1	10.0-160			13.4	37
Xylenes, Total	0.389	0.00214	0.358	0.432	91.5	110	1	10.0-160			18.6	38
(S) Toluene-d8					*105*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*105*	*105*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*99.5*	*104*		*70.0-130*				

Method Blank (MB)

(MB) R3598822-1 11/30/20 19:14

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) R3598822-2 11/30/20 19:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	21.6	86.4	50.0-150	
C12-C22 Hydrocarbons	25.0	20.8	83.2	50.0-150	
(S) o-Terphenyl			*94.4*	*18.0-148*	

L1288983-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288983-20 12/01/20 11:13 • (MS) R3599019-1 12/01/20 11:28 • (MSD) R3599019-2 12/01/20 11:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	24.5	272	306	249	139	0.000	10	50.0-150		J3 V	20.5	20
C12-C22 Hydrocarbons	24.5	357	406	318	200	0.000	10	50.0-150	V	J3 V	24.3	20
(S) o-Terphenyl					*81.5*	*88.0*		*18.0-148*				

Method Blank (MB)

(MB) R3599797-1 12/02/20 17:23

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	*82.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3599797-2 12/02/20 17:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C22-C32 Hydrocarbons	25.0	20.2	80.8	50.0-150	
C12-C22 Hydrocarbons	25.0	20.8	83.2	50.0-150	
(S) o-Terphenyl			*69.7*	*18.0-148*	

L1289125-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1289125-04 12/02/20 17:52 • (MS) R3599797-3 12/02/20 18:07 • (MSD) R3599797-4 12/02/20 18:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C22-C32 Hydrocarbons	24.4	U	19.7	19.0	80.7	77.6	1	50.0-150			3.62	20
C12-C22 Hydrocarbons	24.4	U	20.8	19.6	85.2	80.0	1	50.0-150			5.94	20
(S) o-Terphenyl					*70.8*	*69.6*		*18.0-148*				

Method Blank (MB)

(MB) R3599366-2 12/01/20 18:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333
Pyrene	U		0.00648	0.0333

Method Blank (MB)

(MB) R3599366-2 12/01/20 18:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyridine	U		0.0220	0.333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2-Methylphenol	U		0.0100	0.333
3&4-Methyl Phenol	U		0.0104	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,5-Trichlorophenol	U		0.0113	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) Nitrobenzene-d5	*61.0*			*10.0-122*
(S) 2-Fluorobiphenyl	*77.8*			*15.0-120*
(S) p-Terphenyl-d14	*81.1*			*10.0-120*
(S) Phenol-d5	*78.7*			*10.0-120*
(S) 2-Fluorophenol	*83.8*			*12.0-120*
(S) 2,4,6-Tribromophenol	*91.6*			*10.0-127*

Laboratory Control Sample (LCS)

(LCS) R3599366-1 12/01/20 18:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.499	74.9	38.0-120	
Acenaphthylene	0.666	0.522	78.4	40.0-120	
Anthracene	0.666	0.592	88.9	42.0-120	
Benzo(a)anthracene	0.666	0.573	86.0	44.0-120	
Benzo(b)fluoranthene	0.666	0.605	90.8	43.0-120	
Benzo(k)fluoranthene	0.666	0.599	89.9	44.0-120	
Benzo(g,h,i)perylene	0.666	0.518	77.8	43.0-120	
Benzo(a)pyrene	0.666	0.639	95.9	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.353	53.0	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.544	81.7	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.508	76.3	23.0-120	

Laboratory Control Sample (LCS)

(LCS) R3599366-1 12/01/20 18:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Bromophenyl-phenylether	0.666	0.611	91.7	40.0-120	
2-Chloronaphthalene	0.666	0.495	74.3	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.540	81.1	40.0-120	
Chrysene	0.666	0.537	80.6	43.0-120	
Dibenz(a,h)anthracene	0.666	0.511	76.7	44.0-120	
3,3-Dichlorobenzidine	1.33	0.878	66.0	28.0-120	
2,4-Dinitrotoluene	0.666	0.604	90.7	45.0-120	
2,6-Dinitrotoluene	0.666	0.561	84.2	42.0-120	
Fluoranthene	0.666	0.628	94.3	44.0-120	
Fluorene	0.666	0.533	80.0	41.0-120	
Hexachlorobenzene	0.666	0.600	90.1	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.388	58.3	15.0-120	
Hexachlorocyclopentadiene	0.666	0.415	62.3	15.0-120	
Hexachloroethane	0.666	0.486	73.0	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.545	81.8	45.0-120	
Isophorone	0.666	0.347	52.1	23.0-120	
Naphthalene	0.666	0.394	59.2	18.0-120	
Nitrobenzene	0.666	0.351	52.7	17.0-120	
n-Nitrosodimethylamine	0.666	0.394	59.2	10.0-125	
n-Nitrosodiphenylamine	0.666	0.581	87.2	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.457	68.6	26.0-120	
Phenanthrene	0.666	0.587	88.1	42.0-120	
Benzylbutyl phthalate	0.666	0.577	86.6	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.566	85.0	41.0-120	
Di-n-butyl phthalate	0.666	0.606	91.0	43.0-120	
Diethyl phthalate	0.666	0.551	82.7	43.0-120	
Dimethyl phthalate	0.666	0.573	86.0	43.0-120	
Di-n-octyl phthalate	0.666	0.591	88.7	40.0-120	
Pyrene	0.666	0.537	80.6	41.0-120	
Pyridine	0.666	0.266	39.9	10.0-120	
1,2,4-Trichlorobenzene	0.666	0.376	56.5	17.0-120	
4-Chloro-3-methylphenol	0.666	0.438	65.8	28.0-120	
2-Chlorophenol	0.666	0.526	79.0	28.0-120	
2-Methylphenol	0.666	0.538	80.8	35.0-120	
3&4-Methyl Phenol	0.666	0.637	95.6	42.0-120	
2,4-Dichlorophenol	0.666	0.416	62.5	25.0-120	
2,4-Dimethylphenol	0.666	0.416	62.5	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.617	92.6	16.0-120	
2,4-Dinitrophenol	0.666	0.359	53.9	10.0-120	
2-Nitrophenol	0.666	0.453	68.0	20.0-120	

Laboratory Control Sample (LCS)

(LCS) R3599366-1 12/01/20 18:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Nitrophenol	0.666	0.531	79.7	27.0-120	
Pentachlorophenol	0.666	0.530	79.6	29.0-120	
Phenol	0.666	0.475	71.3	28.0-120	
2,4,5-Trichlorophenol	0.666	0.492	73.9	38.0-120	
2,4,6-Trichlorophenol	0.666	0.504	75.7	37.0-120	
(S) Nitrobenzene-d5			*46.2*	*10.0-122*	
(S) 2-Fluorobiphenyl			*73.6*	*15.0-120*	
(S) p-Terphenyl-d14			*75.7*	*10.0-120*	
(S) Phenol-d5			*77.2*	*10.0-120*	
(S) 2-Fluorophenol			*83.2*	*12.0-120*	
(S) 2,4,6-Tribromophenol			*97.0*	*10.0-127*	

L1288390-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288390-01 12/01/20 21:12 • (MS) R3599366-3 12/01/20 21:32 • (MSD) R3599366-4 12/01/20 21:52

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 %
Acenaphthene	0.842	U	0.562	0.537	66.7	63.6	1	18.0-120			4.47	32
Acenaphthylene	0.842	U	0.582	0.549	69.2	65.0	1	25.0-120			5.94	32
Anthracene	0.842	U	0.686	0.669	81.4	79.2	1	22.0-120			2.48	29
Benzo(a)anthracene	0.842	U	0.683	0.682	81.1	80.7	1	25.0-120			0.189	29
Benzo(b)fluoranthene	0.842	U	0.693	0.690	82.4	81.7	1	19.0-122			0.560	31
Benzo(k)fluoranthene	0.842	U	0.695	0.692	82.5	82.0	1	23.0-120			0.372	30
Benzo(g,h,i)perylene	0.842	U	0.585	0.594	69.5	70.3	1	10.0-120			1.53	33
Benzo(a)pyrene	0.842	U	0.730	0.741	86.7	87.8	1	24.0-120			1.58	30
Bis(2-chlorethoxy)methane	0.842	U	0.381	0.350	45.2	41.4	1	10.0-120			8.48	34
Bis(2-chloroethyl)ether	0.842	U	0.536	0.369	63.7	43.7	1	10.0-120			36.8	40
2,2-Oxybis(1-Chloropropane)	0.842	U	0.504	0.431	59.8	51.1	1	10.0-120			15.5	40
4-Bromophenyl-phenylether	0.842	U	0.681	0.682	80.8	80.7	1	27.0-120			0.190	30
2-Chloronaphthalene	0.842	U	0.545	0.495	64.7	58.6	1	20.0-120			9.69	32
4-Chlorophenyl-phenylether	0.842	U	0.607	0.603	72.1	71.4	1	24.0-120			0.640	29
Chrysene	0.842	U	0.630	0.643	74.8	76.1	1	21.0-120			2.03	29
Dibenz(a,h)anthracene	0.842	U	0.590	0.599	70.1	70.9	1	10.0-120			1.52	32
3,3-Dichlorobenzidine	1.68	U	0.860	0.874	51.2	51.7	1	10.0-120			1.64	34
2,4-Dinitrotoluene	0.842	U	0.699	0.701	83.0	83.0	1	30.0-120			0.369	31
2,6-Dinitrotoluene	0.842	U	0.655	0.652	77.8	77.2	1	25.0-120			0.395	31
Fluoranthene	0.842	0.0136	0.752	0.758	87.7	88.1	1	18.0-126			0.855	32
Fluorene	0.842	U	0.606	0.593	71.9	70.2	1	25.0-120			2.16	30
Hexachlorobenzene	0.842	U	0.686	0.681	81.4	80.6	1	27.0-120			0.756	28

L1288390-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288390-01 12/01/20 21:12 • (MS) R3599366-3 12/01/20 21:32 • (MSD) R3599366-4 12/01/20 21:52

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 %
Hexachloro-1,3-butadiene	0.842	U	0.409	0.360	48.6	42.7	1	10.0-120			12.8	38
Hexachlorocyclopentadiene	0.842	U	0.430	0.378	51.1	44.8	1	10.0-120			12.8	40
Hexachloroethane	0.842	U	0.486	0.409	57.7	48.5	1	10.0-120			17.0	40
Indeno(1,2,3-cd)pyrene	0.842	U	0.617	0.617	73.3	73.1	1	10.0-120			0.000	32
Isophorone	0.842	U	0.380	0.350	45.1	41.4	1	13.0-120			8.14	34
Naphthalene	0.842	U	0.439	0.405	52.1	48.0	1	10.0-120			7.95	35
Nitrobenzene	0.842	U	0.385	0.333	45.7	39.4	1	10.0-120			14.4	36
n-Nitrosodiphenylamine	0.842	U	0.617	0.615	73.3	72.8	1	17.0-120			0.419	29
n-Nitrosodi-n-propylamine	0.842	U	0.460	0.411	54.6	48.6	1	10.0-120			11.3	37
Phenanthrene	0.842	0.00901	0.681	0.675	79.8	78.9	1	17.0-120			0.762	31
Benzylbutyl phthalate	0.842	U	0.690	0.693	81.9	82.1	1	23.0-120			0.560	30
Bis(2-ethylhexyl)phthalate	0.842	U	0.668	0.669	79.3	79.2	1	17.0-126			0.193	30
Di-n-butyl phthalate	0.842	U	0.711	0.711	84.5	84.3	1	30.0-120			0.000	29
Diethyl phthalate	0.842	U	0.635	0.629	75.5	74.5	1	26.0-120			1.02	28
Dimethyl phthalate	0.842	U	0.647	0.634	76.8	75.1	1	25.0-120			2.02	29
Di-n-octyl phthalate	0.842	U	0.709	0.706	84.2	83.6	1	21.0-123			0.365	29
Pyrene	0.842	0.00974	0.648	0.637	75.8	74.2	1	16.0-121			1.81	32
4-Chloro-3-methylphenol	0.842	U	0.498	0.523	59.2	61.9	1	15.0-120			4.80	30
2-Chlorophenol	0.842	U	0.533	0.470	63.3	55.7	1	15.0-120			12.6	37
2-Methylphenol	0.842	U	0.582	0.506	69.2	59.9	1	11.0-120			14.0	40
3&4-Methyl Phenol	0.842	U	0.638	0.591	75.8	70.0	1	12.0-123			7.56	38
2,4-Dichlorophenol	0.842	U	0.460	0.449	54.6	53.2	1	20.0-120			2.27	31
2,4-Dimethylphenol	0.842	U	0.426	0.403	50.6	47.7	1	10.0-120			5.61	33
4,6-Dinitro-2-methylphenol	0.842	U	0.906	0.865	108	102	1	10.0-120			4.66	39
2,4-Dinitrophenol	0.842	U	0.763	0.730	90.6	86.4	1	10.0-121			4.50	40
2-Nitrophenol	0.842	U	0.500	0.460	59.4	54.4	1	12.0-120			8.34	39
4-Nitrophenol	0.842	U	0.691	0.665	82.1	78.7	1	10.0-137			3.81	32
Pentachlorophenol	0.842	U	0.715	0.706	85.0	83.6	1	10.0-160			1.27	31
Phenol	0.842	U	0.482	0.439	57.2	52.0	1	12.0-120			9.26	38
2,4,5-Trichlorophenol	0.842	U	0.571	0.595	67.8	70.5	1	20.0-120			4.21	30
2,4,6-Trichlorophenol	0.842	U	0.549	0.532	65.2	63.0	1	19.0-120			3.11	32
n-Nitrosodimethylamine	0.842	U	0.356	0.345	42.3	40.8	1	10.0-127			3.31	40
Pyridine	0.842	U	0.322	0.266	38.2	31.5	1	10.0-120			18.9	40
1,2,4-Trichlorobenzene	0.842	U	0.403	0.355	47.9	42.0	1	12.0-120			12.6	37
(S) Nitrobenzene-d5					*41.7*	*37.0*		*10.0-122*				
(S) 2-Fluorobiphenyl					*65.6*	*58.7*		*15.0-120*				
(S) p-Terphenyl-d14					*73.0*	*71.9*		*10.0-120*				
(S) Phenol-d5					*64.6*	*57.3*		*10.0-120*				
(S) 2-Fluorophenol					*69.2*	*60.1*		*12.0-120*				

L1288390-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1288390-01 12/01/20 21:12 • (MS) R3599366-3 12/01/20 21:32 • (MSD) R3599366-4 12/01/20 21:52

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 %
(S) 2,4,6-Tribromophenol					*91.6*	*93.4*		*10.0-127*				

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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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

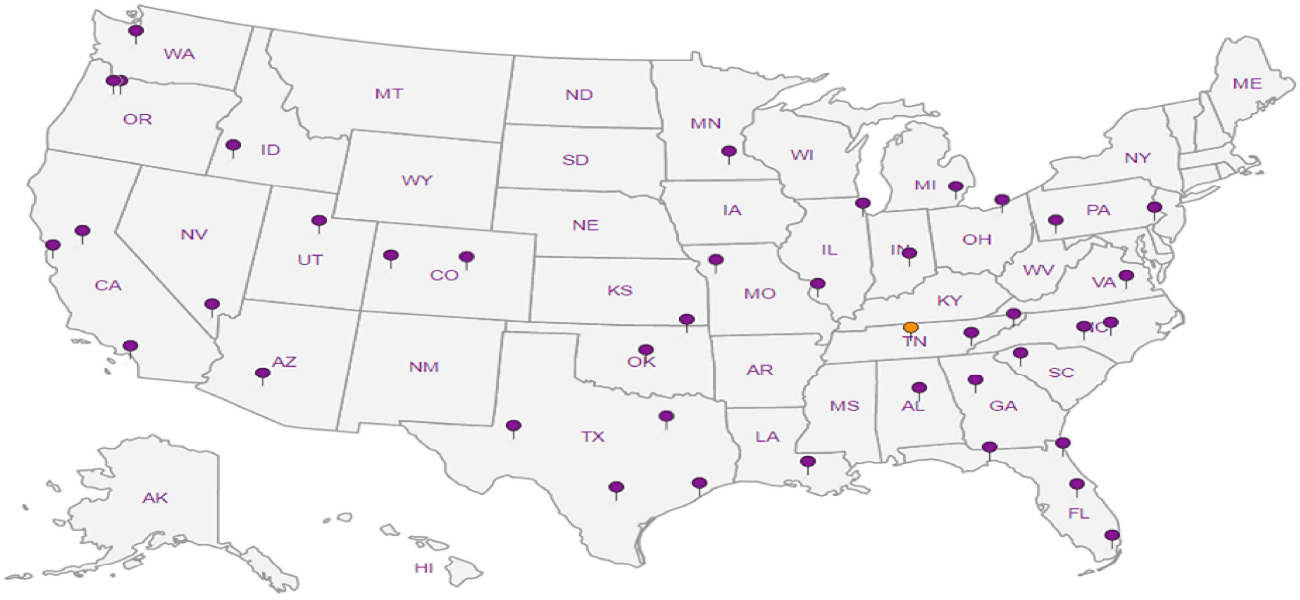
Third Party Federal Accreditations

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.



AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Natasha Budimirovic

Email To: nbudimirovic@aeiconsultants.com; jasmith@aeiconsultants.com

Project Description: Eastmoor Avenue

City/State Collected: Daly City, CA

Please Circle: PT MT CT ET

Phone: 925-746-6000

Client Project #: 430044

Lab Project #: AEICONWCCA-BUDIRES

Collected by (print): N. BUDIMIROVIC

Site/Facility ID #:

P.O. #: 241511

Collected by (signature):

Immediately Packed on Ice: N ___ Y ✓

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 ___ of ___

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 #: C123 L1289379

Acctnum: AEICONWCCA

Template: T177601

Prelogin: P809224

PM: 115 - Brian Ford

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CAM17 Metals 8oxCr-NoPres	DRO/ORO-CA 8oxCr-NoPres	GRO-CA 40mlAmb/MeOH10ml/Syr	SVOCs 8270 8oxCr-NoPres	VOC 8260 40mlAmb/MeOH10ml/Syr	HOLD	Remarks	Sample # (lab only)
SB-1-2.5		SS		11-19-20	921	3	X	X	X	X	X	X		-01
SB-1-5.5		SS			913	3						X		
SB-2-2.5		SS			1128	3	X	X	X	X	X	X		-02
SB-2-5.5		SS			1120	3						X		
SB-3-2.5		SS			936	3	X	X	X	X	X	X		-03
SB-3-5.5		SS			930	3						X		
SB-4-2.5		SS			942	3	X	X	X	X	X	X		-04
SB-4-5.5		SS			943	3						X		
SB-5-2.5		SS			1013	3	X	X	X	X	X	X		-05
SB-5-5.5		SS		↓	1004	3						X		

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

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Sample Shipping Via: ___ UPS ___ FedEx ___ Courier

Tracking # 9146 2498 4707

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	11-19-20	1255	Shipped via FedEx
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)

Trip Blank Received: Yes / No HCL / MeOH

Temp: 2.0 °C Bottles Received: 9

Date: 11-20-20 Time: 0915

If preservation required by Login: Date/Time

Condition: NCF / OK

11-170

AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Files Chk

Report to: Natasha Budimirovic

Email To: nbudimirovic@aeiconsultants.com
rsmith@aeiconsultants.com

Project Description: Eastmoor Avenue

City/State Collected: Daly City, CA

Please Circle: PT MT CT ET

Phone: 925-746-6000

Client Project # 430044

Lab Project # AEICONWCCA-BUDIRES

Collected by (print): N. BUDIMIROVIC

Site/Facility ID #

P.O. # 241571

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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 Metals 8ozClr-NoPres	DRO/ORO-CA 8ozClr-NoPres	GRO-CA 40mlAmb/MeOH10ml/Syr	SVOCs 8270 8ozClr-NaPres	VOCs 8260 40mlAmb/MeOH10ml/Syr	HOLD	Remarks	Sample # (lab only)
SB-6-2.5		SS		11-19-20	1112	3	X	X	X	X	X	X		-06
SB-6-5		SS			1157	3						X		
SB-6-7		SS			1201	3						X		
SB-7-3.5		SS			1016	3						X		
SB-7-7		SS			1024	3	X	X	X	X	X	X		-07
SB-7-9.5		SS			1025	3						X		
		SS												
		SS												
		SS												
		SS												

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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 # L1289379

Table #

Acctnum: AEICONWCCA

Template: T177601

Prelogin: P809224

PM: 110 - Brian Ford

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 ___

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

Samples returned via: ___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	11-19-20	1255	Shipped via FedEx	2
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp °C 22-1-21 Bottles Received 48
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/20/20 Time: 0915

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

AEICONWCCA log off hold

R3/R4/RX/EX

log off hold using the attached revised COC. hold # 11-170. EX 12/01.

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

Members

Brian Ford

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 18, 2020

AEI Consultants - CA

Sample Delivery Group:	L1294446
Samples Received:	12/09/2020
Project Number:	430044
Description:	Eastmoor Avenue

Report To: Natasha Budimirovic
2500 Camino Diablo
Walnut Creek, CA 94597

Entire Report Reviewed By:

Brian Ford
Project Manager

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SV-1 L1294446-01 Air

Collected by	Collected date/time	Received date/time
NB	12/08/20 12:04	12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1590900	1	12/12/20 10:30	12/12/20 10:30	CEP	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1589561	1	12/10/20 10:58	12/10/20 10:58	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1589564	1	12/10/20 13:17	12/10/20 13:17	DAH	Mt. Juliet, TN

SV-2 L1294446-02 Air

Collected by	Collected date/time	Received date/time
NB	12/08/20 15:37	12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1590878	1	12/12/20 15:30	12/12/20 15:30	MBF	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1589561	1	12/10/20 11:01	12/10/20 11:01	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1589564	1	12/10/20 13:26	12/10/20 13:26	DAH	Mt. Juliet, TN

SV-3 L1294446-03 Air

Collected by	Collected date/time	Received date/time
NB	12/08/20 12:38	12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1590878	1	12/12/20 16:07	12/12/20 16:07	MBF	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1589561	1	12/10/20 11:04	12/10/20 11:04	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1589564	1	12/10/20 13:32	12/10/20 13:32	DAH	Mt. Juliet, TN

SV-4 L1294446-04 Air

Collected by	Collected date/time	Received date/time
NB	12/08/20 13:09	12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1590878	1	12/12/20 16:46	12/12/20 16:46	MBF	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1589561	1	12/10/20 11:07	12/10/20 11:07	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1589564	1	12/10/20 13:40	12/10/20 13:40	DAH	Mt. Juliet, TN

SV-5 L1294446-05 Air

Collected by	Collected date/time	Received date/time
NB	12/08/20 13:44	12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1590878	1	12/12/20 17:24	12/12/20 17:24	MBF	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1589561	1	12/10/20 11:11	12/10/20 11:11	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1589564	1	12/10/20 13:46	12/10/20 13:46	DAH	Mt. Juliet, TN

SV-6 L1294446-06 Air

Collected by	Collected date/time	Received date/time
NB	12/08/20 14:54	12/09/20 10:00

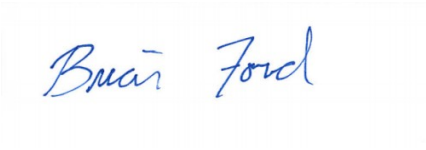
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1590878	1	12/12/20 18:04	12/12/20 18:04	MBF	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1589561	1	12/10/20 11:21	12/10/20 11:21	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1589564	1	12/10/20 13:57	12/10/20 13:57	DAH	Mt. Juliet, TN

SV-7 L1294446-07 Air

Collected by	Collected date/time	Received date/time
NB	12/08/20 14:20	12/09/20 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG1590878	1	12/12/20 18:42	12/12/20 18:42	MBF	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG1592182	100	12/15/20 19:19	12/15/20 19:19	CAW	Mt. Juliet, TN
Organic Compounds (GC) by Method ASTM 1946	WG1589561	1	12/10/20 11:24	12/10/20 11:24	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1589564	1	12/10/20 14:10	12/10/20 14:10	DAH	Mt. Juliet, TN
Organic Compounds (GC) by Method D1946	WG1590026	5	12/10/20 14:59	12/10/20 14:59	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.



Brian Ford
Project Manager

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	1.59	3.78		1	WG1590900
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1590900
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1590900
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1590900
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1590900
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1590900
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1590900
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1590900
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.916	2.85		1	WG1590900
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1590900
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1590900
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1590900
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1590900
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1590900
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1590900
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1590900
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1590900
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1590900
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1590900
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1590900
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1590900
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1590900
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1590900
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1590900
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1590900
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1590900
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1590900
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1590900
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1590900
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1590900
Ethanol	64-17-5	46.10	0.630	1.19	12.2	23.0		1	WG1590900
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1590900
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1590900
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.388	2.18		1	WG1590900
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	ND	ND		1	WG1590900
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1590900
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1590900
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1590900
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1590900
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1590900
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1590900
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1590900
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1590900
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1590900
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1590900
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1590900
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1590900
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1590900
2-Propanol	67-63-0	60.10	1.25	3.07	2.53	6.22		1	WG1590900
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1590900
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1590900
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1590900
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1590900
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1590900
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1590900
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1590900

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	WG1590900
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1590900
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1590900
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1590900
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1590900
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1590900
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1590900
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1590900
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1590900
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1590900
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1590900
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	ND	ND		1	WG1590900
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.2*				WG1590900

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1589561

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	20.9		1	WG1589564
Carbon Dioxide	124-38-9	44.01	0.500	ND		1	WG1589564

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	44.5	106		1	WG1590878
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1590878
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1590878
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1590878
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1590878
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1590878
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1590878
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1590878
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1590878
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1590878
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1590878
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1590878
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1590878
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1590878
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1590878
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1590878
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1590878
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1590878
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1590878
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1590878
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1590878
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1590878
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1590878
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1590878
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1590878
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1590878
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1590878
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1590878
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1590878
1,4-Dioxane	123-91-1	88.10	0.200	0.721	0.257	0.926		1	WG1590878
Ethanol	64-17-5	46.10	0.630	1.19	319	601	E	1	WG1590878
Ethylbenzene	100-41-4	106	0.200	0.867	0.271	1.17		1	WG1590878
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.370	1.82		1	WG1590878
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.242	1.36		1	WG1590878
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.551	2.73		1	WG1590878
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1590878
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1590878
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1590878
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1590878
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1590878
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1590878
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.227	0.788		1	WG1590878
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1590878
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	9.00	26.5		1	WG1590878
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1590878
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1590878
MTBE	1634-04-4	88.10	0.200	0.721	0.214	0.771		1	WG1590878
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1590878
2-Propanol	67-63-0	60.10	1.25	3.07	29.9	73.5		1	WG1590878
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1590878
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1590878
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1590878
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.920	6.25		1	WG1590878
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.845	2.49		1	WG1590878
Toluene	108-88-3	92.10	0.500	1.88	1.67	6.29		1	WG1590878
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1590878

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	WG1590878
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1590878
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1590878
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.725	3.56		1	WG1590878
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.301	1.48		1	WG1590878
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.421	1.97		1	WG1590878
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1590878
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1590878
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1590878
m&p-Xylene	1330-20-7	106	0.400	1.73	1.45	6.29		1	WG1590878
o-Xylene	95-47-6	106	0.200	0.867	0.633	2.74		1	WG1590878
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	1.72	4.65		1	WG1590878
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG1590878

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1589561

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	21.9		1	WG1589564
Carbon Dioxide	124-38-9	44.01	0.500	ND		1	WG1589564

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	5.99	14.2		1	WG1590878
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1590878
Benzene	71-43-2	78.10	0.200	0.639	0.234	0.747		1	WG1590878
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1590878
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1590878
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1590878
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1590878
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1590878
Carbon disulfide	75-15-0	76.10	0.200	0.622	1.84	5.73		1	WG1590878
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1590878
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1590878
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1590878
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1590878
Chloromethane	74-87-3	50.50	0.200	0.413	0.332	0.686		1	WG1590878
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1590878
Cyclohexane	110-82-7	84.20	0.200	0.689	0.267	0.919		1	WG1590878
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1590878
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1590878
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1590878
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1590878
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1590878
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1590878
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1590878
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1590878
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1590878
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1590878
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1590878
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1590878
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1590878
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1590878
Ethanol	64-17-5	46.10	0.630	1.19	53.1	100		1	WG1590878
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1590878
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1590878
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.245	1.38		1	WG1590878
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.554	2.74		1	WG1590878
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1590878
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1590878
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1590878
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1590878
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1590878
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1590878
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.799	2.77		1	WG1590878
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1590878
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1590878
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1590878
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1590878
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1590878
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1590878
2-Propanol	67-63-0	60.10	1.25	3.07	3.27	8.04		1	WG1590878
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1590878
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1590878
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1590878
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1590878
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.360	1.06		1	WG1590878
Toluene	108-88-3	92.10	0.500	1.88	0.744	2.80		1	WG1590878
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1590878

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	WG1590878
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1590878
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1590878
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1590878
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1590878
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1590878
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1590878
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1590878
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1590878
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1590878
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1590878
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	15.7	42.4		1	WG1590878
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*101*				WG1590878

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1589561

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	19.7		1	WG1589564
Carbon Dioxide	124-38-9	44.01	0.500	1.26		1	WG1589564

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	4.20	9.98		1	WG1590878
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1590878
Benzene	71-43-2	78.10	0.200	0.639	0.517	1.65		1	WG1590878
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1590878
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1590878
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1590878
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1590878
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1590878
Carbon disulfide	75-15-0	76.10	0.200	0.622	3.00	9.34		1	WG1590878
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1590878
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1590878
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1590878
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1590878
Chloromethane	74-87-3	50.50	0.200	0.413	0.522	1.08		1	WG1590878
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1590878
Cyclohexane	110-82-7	84.20	0.200	0.689	0.768	2.64		1	WG1590878
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1590878
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1590878
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1590878
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1590878
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1590878
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1590878
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1590878
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1590878
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1590878
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1590878
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1590878
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1590878
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1590878
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1590878
Ethanol	64-17-5	46.10	0.630	1.19	12.1	22.8		1	WG1590878
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1590878
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1590878
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1590878
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.486	2.40		1	WG1590878
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1590878
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1590878
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1590878
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1590878
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1590878
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1590878
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1590878
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1590878
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1590878
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1590878
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1590878
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1590878
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1590878
2-Propanol	67-63-0	60.10	1.25	3.07	2.58	6.34		1	WG1590878
Propene	115-07-1	42.10	0.400	0.689	2.29	3.94		1	WG1590878
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1590878
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1590878
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG1590878
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1590878
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1590878
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1590878

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

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG1590878
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1590878
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1590878
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1590878
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1590878
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1590878
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1590878
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1590878
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1590878
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1590878
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1590878
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	1.06	2.86	B	1	WG1590878
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.1*				WG1590878

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1589561

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	21.2		1	WG1589564
Carbon Dioxide	124-38-9	44.01	0.500	0.718		1	WG1589564

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	7.47	17.8		1	WG1590878
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1590878
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1590878
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1590878
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1590878
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1590878
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1590878
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1590878
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1590878
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1590878
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1590878
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1590878
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1590878
Chloromethane	74-87-3	50.50	0.200	0.413	3.49	7.21		1	WG1590878
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1590878
Cyclohexane	110-82-7	84.20	0.200	0.689	0.247	0.851		1	WG1590878
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1590878
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1590878
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1590878
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1590878
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1590878
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1590878
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1590878
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1590878
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	0.800	3.17		1	WG1590878
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1590878
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1590878
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1590878
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1590878
1,4-Dioxane	123-91-1	88.10	0.200	0.721	0.762	2.75		1	WG1590878
Ethanol	64-17-5	46.10	0.630	1.19	28.6	53.9		1	WG1590878
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1590878
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1590878
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.245	1.38		1	WG1590878
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.564	2.79		1	WG1590878
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1590878
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1590878
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1590878
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1590878
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1590878
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1590878
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.396	1.38		1	WG1590878
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1590878
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1590878
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1590878
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1590878
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1590878
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1590878
2-Propanol	67-63-0	60.10	1.25	3.07	3.50	8.60		1	WG1590878
Propene	115-07-1	42.10	0.400	0.689	0.639	1.10	B	1	WG1590878
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1590878
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1590878
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.738	5.01		1	WG1590878
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	0.656	1.93		1	WG1590878
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1590878
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1590878

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	0.242	1.32		1	WG1590878
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1590878
Trichloroethylene	79-01-6	131	0.200	1.07	12.1	64.8		1	WG1590878
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1590878
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1590878
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1590878
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1590878
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1590878
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1590878
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1590878
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1590878
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	5.26	14.2		1	WG1590878
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*99.4*				WG1590878

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1589561

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	22.0		1	WG1589564
Carbon Dioxide	124-38-9	44.01	0.500	ND		1	WG1589564

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	5.50	13.1		1	WG1590878
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1590878
Benzene	71-43-2	78.10	0.200	0.639	ND	ND		1	WG1590878
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1590878
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1590878
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1590878
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1590878
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1590878
Carbon disulfide	75-15-0	76.10	0.200	0.622	0.222	0.691		1	WG1590878
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1590878
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1590878
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1590878
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1590878
Chloromethane	74-87-3	50.50	0.200	0.413	0.519	1.07		1	WG1590878
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1590878
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1590878
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1590878
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1590878
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1590878
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1590878
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1590878
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1590878
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1590878
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1590878
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1590878
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1590878
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1590878
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1590878
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1590878
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1590878
Ethanol	64-17-5	46.10	0.630	1.19	34.2	64.5		1	WG1590878
Ethylbenzene	100-41-4	106	0.200	0.867	ND	ND		1	WG1590878
4-Ethyltoluene	622-96-8	120	0.200	0.982	ND	ND		1	WG1590878
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1590878
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.461	2.28		1	WG1590878
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1590878
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1590878
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1590878
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1590878
n-Hexane	110-54-3	86.20	0.630	2.22	ND	ND		1	WG1590878
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1590878
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.377	1.31		1	WG1590878
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1590878
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1590878
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1590878
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1590878
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1590878
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1590878
2-Propanol	67-63-0	60.10	1.25	3.07	3.53	8.68		1	WG1590878
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1590878
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1590878
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1590878
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.376	2.55		1	WG1590878
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1590878
Toluene	108-88-3	92.10	0.500	1.88	ND	ND		1	WG1590878
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1590878

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	WG1590878
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1590878
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1590878
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	ND	ND		1	WG1590878
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	ND	ND		1	WG1590878
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	ND	ND		1	WG1590878
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1590878
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1590878
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1590878
m&p-Xylene	1330-20-7	106	0.400	1.73	ND	ND		1	WG1590878
o-Xylene	95-47-6	106	0.200	0.867	ND	ND		1	WG1590878
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	3.34	9.02		1	WG1590878
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*100*				WG1590878

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1589561

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	18.3		1	WG1589564
Carbon Dioxide	124-38-9	44.01	0.500	2.98		1	WG1589564

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	14.9	35.4		1	WG1590878
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1590878
Benzene	71-43-2	78.10	20.0	63.9	196	626		100	WG1592182
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1590878
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1590878
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1590878
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1590878
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1590878
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1590878
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1590878
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1590878
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1590878
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG1590878
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1590878
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1590878
Cyclohexane	110-82-7	84.20	20.0	68.9	315	1080		100	WG1592182
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1590878
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1590878
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1590878
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1590878
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	0.805	4.84		1	WG1590878
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1590878
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1590878
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1590878
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	ND	ND		1	WG1590878
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG1590878
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1590878
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1590878
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1590878
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1590878
Ethanol	64-17-5	46.10	0.630	1.19	43.2	81.5		1	WG1590878
Ethylbenzene	100-41-4	106	0.200	0.867	8.82	38.2		1	WG1590878
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.23	6.04		1	WG1590878
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1590878
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.203	1.00		1	WG1590878
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG1590878
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1590878
Heptane	142-82-5	100	0.200	0.818	82.3	337		1	WG1590878
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1590878
n-Hexane	110-54-3	86.20	63.0	222	293	1030		100	WG1592182
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1590878
Methylene Chloride	75-09-2	84.90	0.200	0.694	ND	ND		1	WG1590878
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1590878
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1590878
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1590878
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1590878
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1590878
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1590878
2-Propanol	67-63-0	60.10	1.25	3.07	1.66	4.08		1	WG1590878
Propene	115-07-1	42.10	0.400	0.689	ND	ND		1	WG1590878
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1590878
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1590878
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.285	1.93		1	WG1590878
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1590878
Toluene	108-88-3	92.10	0.500	1.88	7.18	27.0		1	WG1590878
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1590878

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	WG1590878
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1590878
Trichloroethylene	79-01-6	131	0.200	1.07	ND	ND		1	WG1590878
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	0.840	4.12		1	WG1590878
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.674	3.31		1	WG1590878
2,2,4-Trimethylpentane	540-84-1	114.22	20.0	93.4	1190	5560		100	WG1592182
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1590878
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1590878
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1590878
m&p-Xylene	1330-20-7	106	0.400	1.73	32.6	141		1	WG1590878
o-Xylene	95-47-6	106	0.200	0.867	13.5	58.5		1	WG1590878
1,1-Difluoroethane	75-37-6	66.05	1.00	2.70	7.08	19.1		1	WG1590878
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*109*				WG1590878
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.0*				WG1592182

Organic Compounds (GC) by Method ASTM 1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Helium	7440-59-7		0.100	ND		1	WG1589561

Organic Compounds (GC) by Method D1946

Analyte	CAS #	Mol. Wt.	RDL %	Result %	Qualifier	Dilution	Batch
Oxygen	7782-44-7	32	5.00	12.3		1	WG1589564
Carbon Dioxide	124-38-9	44.01	2.50	7.98		5	WG1590026

Method Blank (MB)

(MB) R3602826-3 12/12/20 10:59

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	0.0913	J	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	0.0559	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) R3602826-3 12/12/20 10:59

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	0.132	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	0.161	J	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	0.299	J	0.265	0.630
1,1-Difluoroethane	0.131	J	0.129	1.00
(S) 1,4-Bromofluorobenzene	*96.3*			*60.0-140*

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

(LCS) R3602826-1 12/12/20 09:37 • (LCSD) R3602826-2 12/12/20 10:15

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	3.68	3.43	98.1	91.5	55.0-148			7.03	25
Propene	3.75	4.07	3.95	109	105	64.0-144			2.99	25
Dichlorodifluoromethane	3.75	4.40	4.32	117	115	64.0-139			1.83	25
1,2-Dichlorotetrafluoroethane	3.75	4.32	4.35	115	116	70.0-130			0.692	25

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

(LCS) R3602826-1 12/12/20 09:37 • (LCSD) R3602826-2 12/12/20 10:15

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	3.75	4.47	4.26	119	114	70.0-130			4.81	25
Vinyl chloride	3.75	3.88	3.74	103	99.7	70.0-130			3.67	25
1,3-Butadiene	3.75	3.91	3.92	104	105	70.0-130			0.255	25
Bromomethane	3.75	4.16	4.02	111	107	70.0-130			3.42	25
Chloroethane	3.75	4.51	4.16	120	111	70.0-130			8.07	25
Trichlorofluoromethane	3.75	4.10	4.08	109	109	70.0-130			0.489	25
1,1,2-Trichlorotrifluoroethane	3.75	3.55	3.82	94.7	102	70.0-130			7.33	25
1,1-Dichloroethene	3.75	3.67	4.16	97.9	111	70.0-130			12.5	25
1,1-Dichloroethane	3.75	4.12	4.13	110	110	70.0-130			0.242	25
Acetone	3.75	3.90	3.76	104	100	70.0-130			3.66	25
2-Propanol	3.75	3.94	3.89	105	104	70.0-139			1.28	25
Carbon disulfide	3.75	4.18	4.16	111	111	70.0-130			0.480	25
Methylene Chloride	3.75	3.96	3.96	106	106	70.0-130			0.000	25
MTBE	3.75	4.05	3.94	108	105	70.0-130			2.75	25
trans-1,2-Dichloroethene	3.75	4.25	4.16	113	111	70.0-130			2.14	25
n-Hexane	3.75	4.26	4.19	114	112	70.0-130			1.66	25
Vinyl acetate	3.75	4.05	4.04	108	108	70.0-130			0.247	25
Methyl Ethyl Ketone	3.75	3.89	3.98	104	106	70.0-130			2.29	25
cis-1,2-Dichloroethene	3.75	3.80	3.77	101	101	70.0-130			0.793	25
Chloroform	3.75	4.06	4.10	108	109	70.0-130			0.980	25
Cyclohexane	3.75	4.31	4.22	115	113	70.0-130			2.11	25
1,1,1-Trichloroethane	3.75	4.14	4.07	110	109	70.0-130			1.71	25
Carbon tetrachloride	3.75	4.26	4.15	114	111	70.0-130			2.62	25
Benzene	3.75	4.17	4.10	111	109	70.0-130			1.69	25
1,2-Dichloroethane	3.75	4.05	4.10	108	109	70.0-130			1.23	25
Heptane	3.75	4.23	4.25	113	113	70.0-130			0.472	25
Trichloroethylene	3.75	4.07	4.14	109	110	70.0-130			1.71	25
1,2-Dichloropropane	3.75	4.22	4.18	113	111	70.0-130			0.952	25
1,4-Dioxane	3.75	3.93	3.83	105	102	70.0-140			2.58	25
Bromodichloromethane	3.75	4.14	4.10	110	109	70.0-130			0.971	25
cis-1,3-Dichloropropene	3.75	4.14	4.10	110	109	70.0-130			0.971	25
4-Methyl-2-pentanone (MIBK)	3.75	4.38	4.27	117	114	70.0-139			2.54	25
Toluene	3.75	4.14	4.13	110	110	70.0-130			0.242	25
trans-1,3-Dichloropropene	3.75	4.14	3.97	110	106	70.0-130			4.19	25
1,1,2-Trichloroethane	3.75	4.18	3.99	111	106	70.0-130			4.65	25
Tetrachloroethylene	3.75	4.13	4.17	110	111	70.0-130			0.964	25
Methyl Butyl Ketone	3.75	4.50	4.30	120	115	70.0-149			4.55	25
Dibromochloromethane	3.75	4.05	4.08	108	109	70.0-130			0.738	25
1,2-Dibromoethane	3.75	4.07	4.04	109	108	70.0-130			0.740	25
Chlorobenzene	3.75	4.21	4.18	112	111	70.0-130			0.715	25

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

(LCS) R3602826-1 12/12/20 09:37 • (LCSD) R3602826-2 12/12/20 10:15

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	3.75	4.21	4.21	112	112	70.0-130			0.000	25
m&p-Xylene	7.50	8.47	8.43	113	112	70.0-130			0.473	25
o-Xylene	3.75	4.18	4.12	111	110	70.0-130			1.45	25
Styrene	3.75	4.18	4.18	111	111	70.0-130			0.000	25
Bromoform	3.75	4.07	4.08	109	109	70.0-130			0.245	25
1,1,2,2-Tetrachloroethane	3.75	4.05	4.11	108	110	70.0-130			1.47	25
4-Ethyltoluene	3.75	4.16	4.12	111	110	70.0-130			0.966	25
1,3,5-Trimethylbenzene	3.75	4.17	4.19	111	112	70.0-130			0.478	25
1,2,4-Trimethylbenzene	3.75	4.15	4.12	111	110	70.0-130			0.726	25
1,3-Dichlorobenzene	3.75	4.19	4.16	112	111	70.0-130			0.719	25
1,4-Dichlorobenzene	3.75	4.18	4.03	111	107	70.0-130			3.65	25
Benzyl Chloride	3.75	3.92	3.88	105	103	70.0-152			1.03	25
1,2-Dichlorobenzene	3.75	4.18	4.15	111	111	70.0-130			0.720	25
1,2,4-Trichlorobenzene	3.75	3.97	3.87	106	103	70.0-160			2.55	25
Hexachloro-1,3-butadiene	3.75	4.29	4.20	114	112	70.0-151			2.12	25
Naphthalene	3.75	3.99	4.02	106	107	70.0-159			0.749	25
Allyl Chloride	3.75	4.10	4.19	109	112	70.0-130			2.17	25
2-Chlorotoluene	3.75	4.19	4.20	112	112	70.0-130			0.238	25
Methyl Methacrylate	3.75	4.05	3.94	108	105	70.0-130			2.75	25
Tetrahydrofuran	3.75	4.12	3.97	110	106	70.0-137			3.71	25
2,2,4-Trimethylpentane	3.75	4.39	4.26	117	114	70.0-130			3.01	25
Vinyl Bromide	3.75	4.20	4.21	112	112	70.0-130			0.238	25
Isopropylbenzene	3.75	4.13	4.18	110	111	70.0-130			1.20	25
1,1-Difluoroethane	3.75	4.17	4.27	111	114	70.0-130			2.37	25
(S) 1,4-Bromofluorobenzene				*98.6*	*99.6*	*60.0-140*				

Method Blank (MB)

(MB) R3602824-3 12/12/20 07:59

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	U		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) R3602824-3 12/12/20 07:59

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	U		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
1,1-Difluoroethane	U		0.129	1.00
(S) 1,4-Bromofluorobenzene	*99.7*			*60.0-140*

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

(LCS) R3602824-1 12/12/20 06:37 • (LCSD) R3602824-2 12/12/20 07:19

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	3.09	3.18	82.4	84.8	55.0-148			2.87	25
Propene	3.75	4.00	4.30	107	115	64.0-144			7.23	25
Dichlorodifluoromethane	3.75	4.21	4.14	112	110	64.0-139			1.68	25
1,2-Dichlorotetrafluoroethane	3.75	4.24	4.01	113	107	70.0-130			5.58	25

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

(LCS) R3602824-1 12/12/20 06:37 • (LCSD) R3602824-2 12/12/20 07:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	3.75	3.78	4.15	101	111	70.0-130			9.33	25
Vinyl chloride	3.75	3.95	4.09	105	109	70.0-130			3.48	25
1,3-Butadiene	3.75	3.87	3.90	103	104	70.0-130			0.772	25
Bromomethane	3.75	3.90	4.00	104	107	70.0-130			2.53	25
Chloroethane	3.75	3.80	3.80	101	101	70.0-130			0.000	25
Trichlorofluoromethane	3.75	4.13	4.09	110	109	70.0-130			0.973	25
1,1,2-Trichlorotrifluoroethane	3.75	4.06	4.06	108	108	70.0-130			0.000	25
1,1-Dichloroethene	3.75	4.14	4.16	110	111	70.0-130			0.482	25
1,1-Dichloroethane	3.75	4.05	4.01	108	107	70.0-130			0.993	25
Acetone	3.75	3.42	3.58	91.2	95.5	70.0-130			4.57	25
2-Propanol	3.75	3.56	3.79	94.9	101	70.0-139			6.26	25
Carbon disulfide	3.75	3.99	3.97	106	106	70.0-130			0.503	25
Methylene Chloride	3.75	3.97	3.92	106	105	70.0-130			1.27	25
MTBE	3.75	4.17	4.23	111	113	70.0-130			1.43	25
trans-1,2-Dichloroethene	3.75	4.27	4.15	114	111	70.0-130			2.85	25
n-Hexane	3.75	4.29	4.23	114	113	70.0-130			1.41	25
Vinyl acetate	3.75	3.45	3.50	92.0	93.3	70.0-130			1.44	25
Methyl Ethyl Ketone	3.75	4.01	3.90	107	104	70.0-130			2.78	25
cis-1,2-Dichloroethene	3.75	4.08	4.15	109	111	70.0-130			1.70	25
Chloroform	3.75	4.10	3.97	109	106	70.0-130			3.22	25
Cyclohexane	3.75	4.36	4.31	116	115	70.0-130			1.15	25
1,1,1-Trichloroethane	3.75	4.01	4.04	107	108	70.0-130			0.745	25
Carbon tetrachloride	3.75	4.02	4.02	107	107	70.0-130			0.000	25
Benzene	3.75	3.97	4.07	106	109	70.0-130			2.49	25
1,2-Dichloroethane	3.75	3.86	3.93	103	105	70.0-130			1.80	25
Heptane	3.75	4.34	4.32	116	115	70.0-130			0.462	25
Trichloroethylene	3.75	4.07	4.14	109	110	70.0-130			1.71	25
1,2-Dichloropropane	3.75	4.13	4.01	110	107	70.0-130			2.95	25
1,4-Dioxane	3.75	3.41	3.61	90.9	96.3	70.0-140			5.70	25
Bromodichloromethane	3.75	3.99	3.97	106	106	70.0-130			0.503	25
cis-1,3-Dichloropropene	3.75	3.97	4.00	106	107	70.0-130			0.753	25
4-Methyl-2-pentanone (MIBK)	3.75	4.10	4.14	109	110	70.0-139			0.971	25
Toluene	3.75	4.09	4.17	109	111	70.0-130			1.94	25
trans-1,3-Dichloropropene	3.75	3.96	4.02	106	107	70.0-130			1.50	25
1,1,2-Trichloroethane	3.75	3.78	4.00	101	107	70.0-130			5.66	25
Tetrachloroethylene	3.75	4.13	4.18	110	111	70.0-130			1.20	25
Methyl Butyl Ketone	3.75	4.06	3.92	108	105	70.0-149			3.51	25
Dibromochloromethane	3.75	3.99	3.95	106	105	70.0-130			1.01	25
1,2-Dibromoethane	3.75	4.03	4.10	107	109	70.0-130			1.72	25
Chlorobenzene	3.75	3.96	3.99	106	106	70.0-130			0.755	25

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

(LCS) R3602824-1 12/12/20 06:37 • (LCSD) R3602824-2 12/12/20 07:19

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	3.75	4.02	3.96	107	106	70.0-130			1.50	25
m&p-Xylene	7.50	8.43	8.31	112	111	70.0-130			1.43	25
o-Xylene	3.75	4.31	4.33	115	115	70.0-130			0.463	25
Styrene	3.75	4.23	4.12	113	110	70.0-130			2.63	25
Bromoform	3.75	3.95	3.92	105	105	70.0-130			0.762	25
1,1,2,2-Tetrachloroethane	3.75	3.93	3.78	105	101	70.0-130			3.89	25
4-Ethyltoluene	3.75	4.22	4.20	113	112	70.0-130			0.475	25
1,3,5-Trimethylbenzene	3.75	4.25	4.18	113	111	70.0-130			1.66	25
1,2,4-Trimethylbenzene	3.75	4.30	4.37	115	117	70.0-130			1.61	25
1,3-Dichlorobenzene	3.75	3.98	3.95	106	105	70.0-130			0.757	25
1,4-Dichlorobenzene	3.75	4.11	4.06	110	108	70.0-130			1.22	25
Benzyl Chloride	3.75	3.17	3.29	84.5	87.7	70.0-152			3.72	25
1,2-Dichlorobenzene	3.75	3.98	4.02	106	107	70.0-130			1.00	25
1,2,4-Trichlorobenzene	3.75	3.88	4.22	103	113	70.0-160			8.40	25
Hexachloro-1,3-butadiene	3.75	4.05	3.99	108	106	70.0-151			1.49	25
Naphthalene	3.75	4.18	4.22	111	113	70.0-159			0.952	25
Allyl Chloride	3.75	4.39	4.33	117	115	70.0-130			1.38	25
2-Chlorotoluene	3.75	4.19	4.14	112	110	70.0-130			1.20	25
Methyl Methacrylate	3.75	4.19	4.03	112	107	70.0-130			3.89	25
Tetrahydrofuran	3.75	3.89	3.82	104	102	70.0-137			1.82	25
2,2,4-Trimethylpentane	3.75	4.34	4.32	116	115	70.0-130			0.462	25
Vinyl Bromide	3.75	3.94	4.06	105	108	70.0-130			3.00	25
Isopropylbenzene	3.75	4.31	4.31	115	115	70.0-130			0.000	25
1,1-Difluoroethane	3.75	3.98	3.75	106	100	70.0-130			5.95	25
(S) 1,4-Bromofluorobenzene				*102*	*99.7*	*60.0-140*				

Method Blank (MB)

(MB) R3603767-3 12/15/20 12:53

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Benzene	U		0.0715	0.200
Cyclohexane	U		0.0753	0.200
n-Hexane	U		0.206	0.630
2,2,4-Trimethylpentane	U		0.133	0.200
(S) 1,4-Bromofluorobenzene	*95.5*			*60.0-140*

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

(LCS) R3603767-1 12/15/20 11:33 • (LCSD) R3603767-2 12/15/20 12:14

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	3.75	4.16	4.07	111	109	70.0-130			2.19	25
Cyclohexane	3.75	4.14	4.08	110	109	70.0-130			1.46	25
Benzene	3.75	4.30	4.09	115	109	70.0-130			5.01	25
2,2,4-Trimethylpentane	3.75	4.33	4.22	115	113	70.0-130			2.57	25
(S) 1,4-Bromofluorobenzene				*98.1*	*97.9*	*60.0-140*				

Method Blank (MB)

(MB) R3602115-3 12/10/20 09:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Helium	U		0.0259	0.100

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

(LCS) R3602115-1 12/10/20 08:55 • (LCSD) R3602115-2 12/10/20 09:12

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Helium	2.50	2.41	2.40	96.4	96.0	70.0-130			0.416	25

Method Blank (MB)

(MB) R3602254-3 12/10/20 11:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Oxygen	0.917		0.225	5.00
Carbon Dioxide	U		0.121	0.500

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

(LCS) R3602254-1 12/10/20 11:44 • (LCSD) R3602254-2 12/10/20 11:51

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oxygen	20.0	20.6	20.3	103	102	70.0-130			1.47	20
Carbon Dioxide	2.50	2.48	2.44	99.2	97.6	70.0-130			1.63	20

Method Blank (MB)

(MB) R3602259-3 12/10/20 11:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Carbon Dioxide	U		0.121	0.500

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

(LCS) R3602259-1 12/10/20 11:44 • (LCSD) R3602259-2 12/10/20 11:51

Analyte	Spike Amount %	LCS Result %	LCSD Result %	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Carbon Dioxide	2.50	2.48	2.44	99.2	97.6	70.0-130			1.63	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
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
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	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	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	998093910
Montana	CERT0086	Wyoming	A2LA

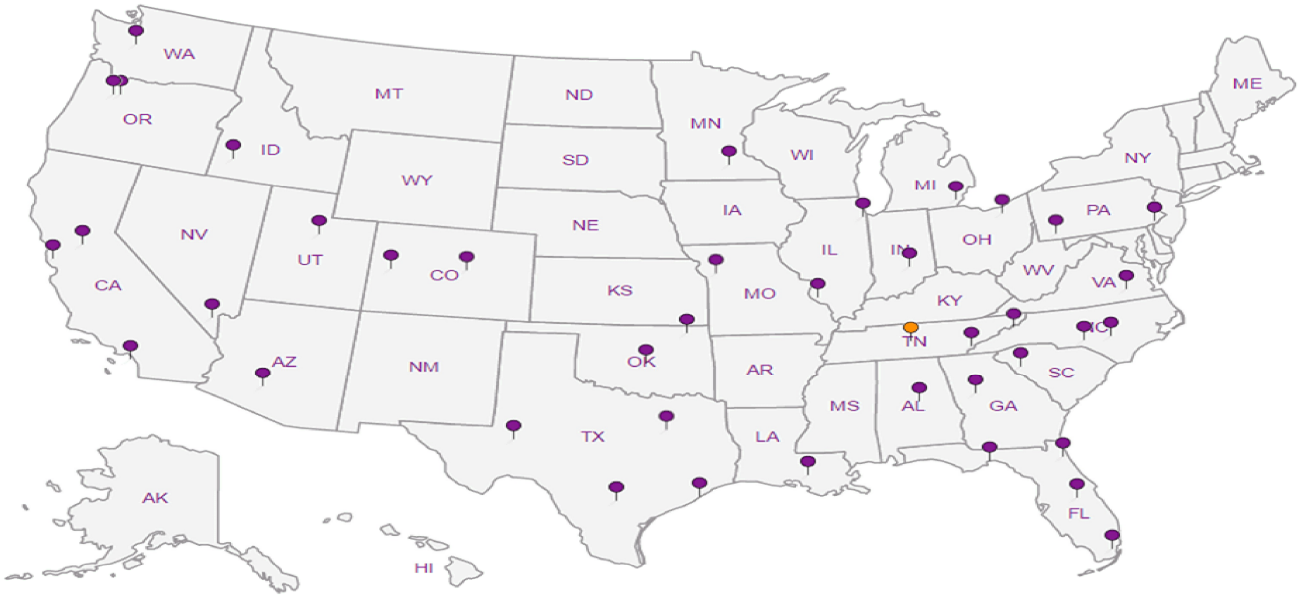
Third Party Federal Accreditations

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.



AEI Consultants - CA

2500 Camino Diablo
Walnut Creek, CA 94597

Billing Information:
Accounts Payable- Jeremy Smith
2500 Camino Diablo
Walnut Creek, CA 94597

Pres Chk

Report to: Natasha Budimirovic

Email To: nbudimirovic@aeiconsultants.com
jasmith@aeiconsultants.com

Project Description: Eastmoor Avenue

City/State Collected: Daly City, CA

Please Circle: PT MT CT ET

Phone: 925-746-6000

Client Project # 430044

Lab Project # AEICONWCCA-BUDIRES

Collected by (print): N. BUDIMIROVIC

Site/Facility ID #

P.O. # 24512

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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	Helium Summa (ASTM D 1946-90)	VOCs TO-15 Summa	Fixed gases - O2, CO2 (ASTM D 1946-90)								Remarks	Sample # (lab only)
SV-1		Air		12/8/20	1204	1	X	X	X									
SV-2		Air			1537	1	X	X	X									
SV-3		Air			1238	1	X	X	X									
SV-4		Air			1309	1	X	X	X									
SV-5		Air			1344	1	X	X	X									
SV-6		Air			1454	1	X	X	X									
SV-7		Air			1420	1	X	X	X									

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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 # U294446

Table # J073

Acctnum: AEICONWCCA

Template: T177578

Prelogin: P809179

PM: 110 - Brian Ford

PB: 06/11/13 hp

Shipped Via: FedEX Ground

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

Remarks: Please record final gauge readings and include in the report.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 9362 4938 5720 / 5710 / 5709

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)
	12/8/20	1620	Shipped via FedEX
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Josh Krzywosky

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: AMB °C Bottles Received: 7+4 Bad

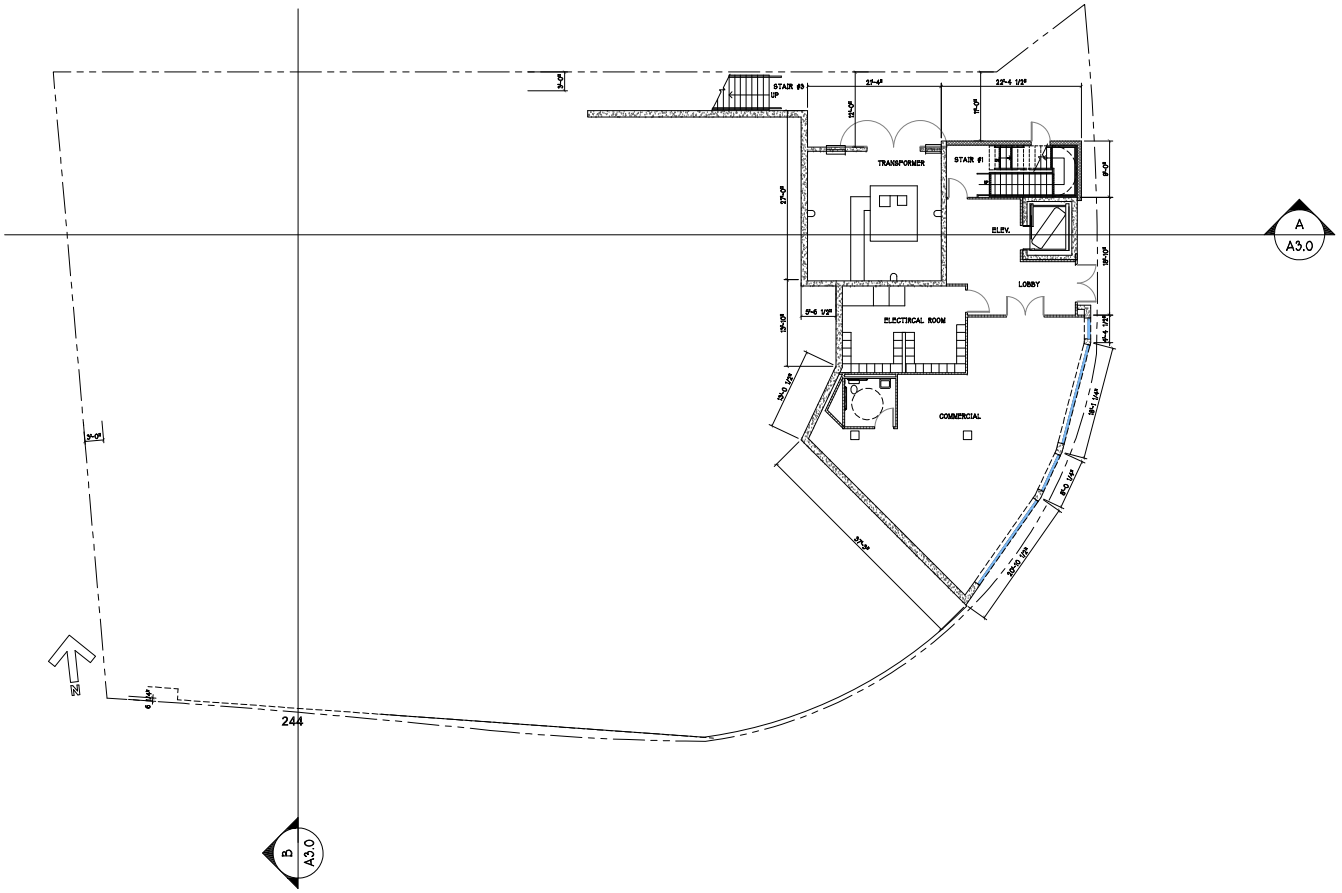
Date: 12/9/20 Time: 10:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Appendix B
Proposed Development Plans
(Select Drawings)



1 1ST FLOOR PLAN / ARCHITECTURE SITE PLAN
1/8" = 1'-0"

KEYNOTES - BUILDING

LEGEND

2x6 WALL
ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED. SEE DETAILS 9 & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

DOUBLE 2x4 WALL
ONE HOUR RATED. SEE DETAILS 1 & 2 AND 11/A8.1
TWO HOUR RATED. SEE DETAILS 7, 12, 17 AND 22/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x6 WALL STUD WALL
ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED. SEE DETAILS 18 & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x6 PLATES W/ 2x4 STAGGERED STUD WALL
ALONG RESIDENTIAL CORRIDOR ADJACENT TO UNITS
ONE HOUR RATED. SEE DETAILS 5, 10 & 14 A8.1
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x6 WALL (ONE HOUR RATED)
ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED. SEE DETAILS 18 & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

INDICATES 3 HR FIRE WALL LOCATION
SEE DETAILS 1, 2, 4 & 6 ON A8.2

GENERAL NOTES

1. SEE UNIT PLANS SHEETS A4 SERIES FOR DETAILED INFORMATION ON ALL UNIT PLANS.
2. REFER TO SHEET A2.1a - A2.1c SERIES SHEETS FOR COMPLETE NOTES AND DIMENSIONS
3. REFER TO SHEET A4 AND A5 SERIES SHEETS AND A8.5 FOR DETAILS PERTAINING TO ACCESSIBILITY REQUIREMENTS
4. REFER TO SHEET A8.2a, A8.2b AND A8.3 FOR DETAILS PERTAINING TO PENETRATIONS OF RATED FLOOR, WALLS & CEILINGS
5. REFER TO SHEET A0.3 - A0.8 FOR FIRE RATING REQUIREMENTS FOR WALLS AND OPENINGS.
6. FIRE BLOCKING AND DRAFT STOPS TO BE INSTALLED AS REQUIRED BY SECTION 718 CBC, VERTICALLY AND HORIZONTALLY
7. ALL WOOD COLUMNS, GIRDERS, TRUSSES, BEAMS OR OTHER STRUCTURAL MEMBERS THAT SUPPORT MORE THAN TWO FLOORS OR ONE FLOOR AND ROOF, OR SUPPORT A LOAD-BEARING WALL OR A NON-LOAD BEARING WALL MORE THAN TWO STORIES HIGH, SHALL BE INDIVIDUALLY PROTECTED ON ALL SIDES FOR THE FULL LENGTH WITH MATERIAL HAVING THE REQUIRED ONE HOUR RATING- PER CBC 704.3. WHEN WRAP CAUSES THE POST OR BEAM WRAP TO PROTRUDE OUT FROM ADJACENT SURFACE PROVIDE ADDITIONAL 5YP. SD. TO CREATE A FLUSH WALL OR CEILING CONDITION TO NEAREST WALL INTERSECTION. SEE DETAILS 15-17 ON A8.1
8. TYPE III-A CONSTRUCTION AT FLOORS, 3, 4, 5, 6 AND 7. PROVIDE:
   1) 1 HOUR PRIMARY STRUCTURE FRAME, SEE STRUCTURAL DRAWINGS
   2) 1 HOUR EXTERIOR BEARING WALLS. FIRE-RETARDANT-TREATED WOOD WITHIN EXTERIOR WALL ASSEMBLIES
   3) 1 HOUR AT BEAMS AND POST WHERE INDICATED ON STRUCTURAL DRAWINGS.
   4) 1 HOUR INTERIOR BEARING WALL, FLOOR & ROOF ASSEMBLIES.
   5) 1 HOUR INTERIOR NON-BEARING WALLS.
9. ALL ELEVATIONS ARE SHOWN TO THE TOP OF STRUCTURAL SLAB OR TOP OF PLYWOOD AND DO NOT ACCOUNT FOR THICKENED EDGES, TYP. U.N.O.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE REQUIRED CLEARANCES BELOW THE BOTTOM OF STRUCTURAL, ARCHITECTURAL AND MECHANICAL ELEMENTS.
11. VERIFY ALL SLAB AND WALL OPENINGS WITH THE PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS.
12. VERIFY ALL PIPE SLEEVES WITH THE PLUMBING AND FIRE PROTECTION SUBCONTRACTORS PRIOR TO POURING OF BEAMS AND SLABS.
13. SEE THE ENLARGED STAIR PLANS & DETAILS FOR ADDITIONAL INFORMATION. SHOP DRAWINGS BY OTHERS TO BE REVIEWED AND APPROVED PRIOR TO FABRICATION.

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CORE affordable

LICENSED ARCHITECT THOMAS E. MCGRATH C-011442 STATE OF CALIFORNIA

Revisions:

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
488 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

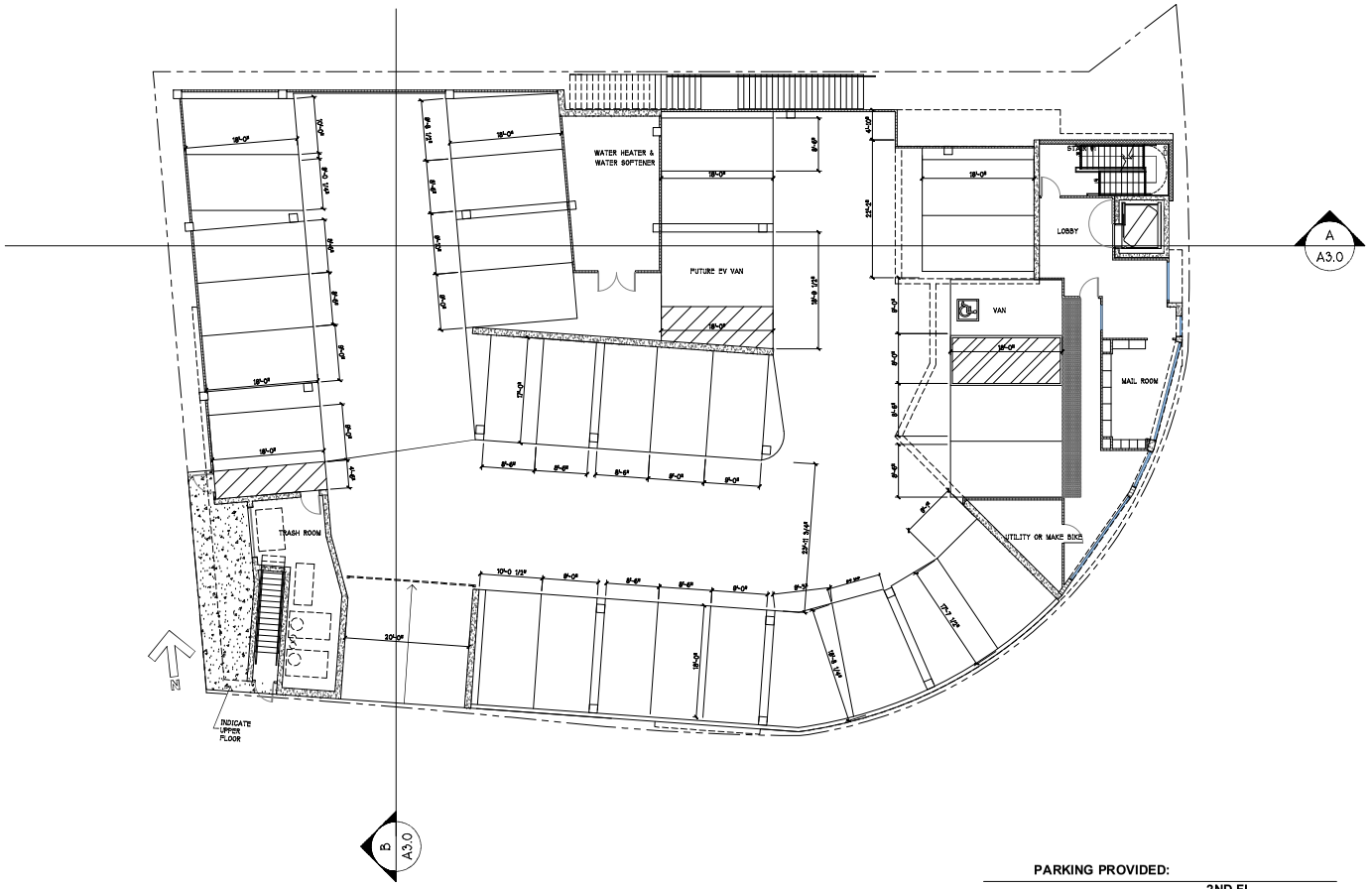
Project No: Date:

Sheet Title:
SITE & 1ST FLOOR PLAN

Review by: DH

Sheet No:
A2.1

of Sheets



1 2ND FLOOR PLAN / ARCHITECTURE SITE PLAN
1/8" = 1'-0"

PARKING PROVIDED:

	2ND FL
STANDARD	30
ADA	2 (2 VAN)
	32

KEYNOTES - BUILDING

LEGEND

- 2x4 WALL
  ONE HOUR RATED, SEE DETAILS 4 & 13/A9.1
  TWO HOUR RATED, SEE DETAILS 9, & 23/A9.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- DOUBLE 2x4 WALL
  ONE HOUR RATED, SEE DETAILS 1 & 2 AND 11/A9.1
  TWO HOUR RATED, SEE DETAILS 7, 12, 17 AND 23/A9.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x6 WALL STUD WALL
  ONE HOUR RATED, SEE DETAILS 4 & 13/A9.1
  TWO HOUR RATED, SEE DETAILS 18 & 23/A9.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x6 PLATES W/ 2x4 STAGGERED STUD WALL
  ALONG RESIDENTIAL CORRIDOR ADJACENT TO UNITS
  ONE HOUR RATED, SEE DETAILS 3, 12 & 14 A9.1
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x8 WALL (ONE HOUR RATED)
  ONE HOUR RATED, SEE DETAILS 4 & 13/A9.1
  TWO HOUR RATED, SEE DETAILS 18 & 23/A9.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- INDICATES 3 HR FIRE WALL LOCATION
  SEE DETAILS 1, 2, 4 & 6 ON A9.2

GENERAL NOTES

1. SEE UNIT PLANS SHEETS A4 SERIES FOR DETAILED INFORMATION ON ALL UNIT PLANS.
2. REFER TO SHEET A2.1a -A2.1c SERIES SHEETS FOR COMPLETE NOTES AND DIMENSIONS
3. REFER TO SHEET A4 AND A5 SERIES SHEETS AND A9.5 FOR DETAILS PERTAINING TO ACCESSIBILITY REQUIREMENTS
4. REFER TO SHEET A9.2a, A9.2b AND A9.3 FOR DETAILS PERTAINING TO PENETRATIONS OF RATED FLOOR, WALLS & CEILINGS
5. REFER TO SHEET A0.3 - A0.6 FOR FIRE RATING REQUIREMENTS FOR WALLS AND OPENINGS.
6. FIRE BLOCKING AND DRAFT STOPS TO BE INSTALLED AS REQUIRED BY SECTION 718 CBC, VERTICALLY AND HORIZONTALLY
7. ALL WOOD COLUMNS, GIRDERS, TRUSSES, BEAMS OR OTHER STRUCTURAL MEMBERS THAT SUPPORT MORE THAN TWO FLOORS OR ONE FLOOR AND ROOF, OR SUPPORT A LOAD-BEARING WALL OR A NON-LOAD BEARING WALL MORE THAN TWO STORIES HIGH, SHALL BE INDIVIDUALLY PROTECTED ON ALL SIDES FOR THE FULL LENGTH WITH MATERIAL HAVING THE REQUIRED ONE HOUR RATING PER CBC 704.3. WHEN WRAP CAUSES THE POST OR BEAM WRAP TO PROTRUDE OUT FROM ADJACENT SURFACE PROVIDE ADDITIONAL 5YP. BD. TO CREATE A FLUSH WALL OR CEILING CONDITION TO NEAREST WALL INTERSECTION. SEE DETAILS 15-17 ON A9.1
8. TYPE III-A CONSTRUCTION AT FLOORS, 3, 4, 5, 6 AND 7. PROVIDE:
   1) 1 HOUR PRIMARY STRUCTURE FRAME, SEE STRUCTURAL DRAWINGS
   2) 2 HOUR EXTERIOR BEARING WALLS, FIRE-RETARDANT-TREATED WOOD WITHIN EXTERIOR WALL ASSEMBLIES.
   3) 2 HOUR AT BEAMS AND POST WHERE INDICATED ON STRUCTURAL DRAWINGS.
   4) 1 HOUR INTERIOR BEARING WALL, FLOOR & ROOF ASSEMBLIES.
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CORE affordable

LICENSED ARCHITECT THOMAS C. HOLLOWAY C-011442 RENEWAL DATE 1/31/20 STATE OF CALIFORNIA

Revisions:

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
488 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

Project No: Date:

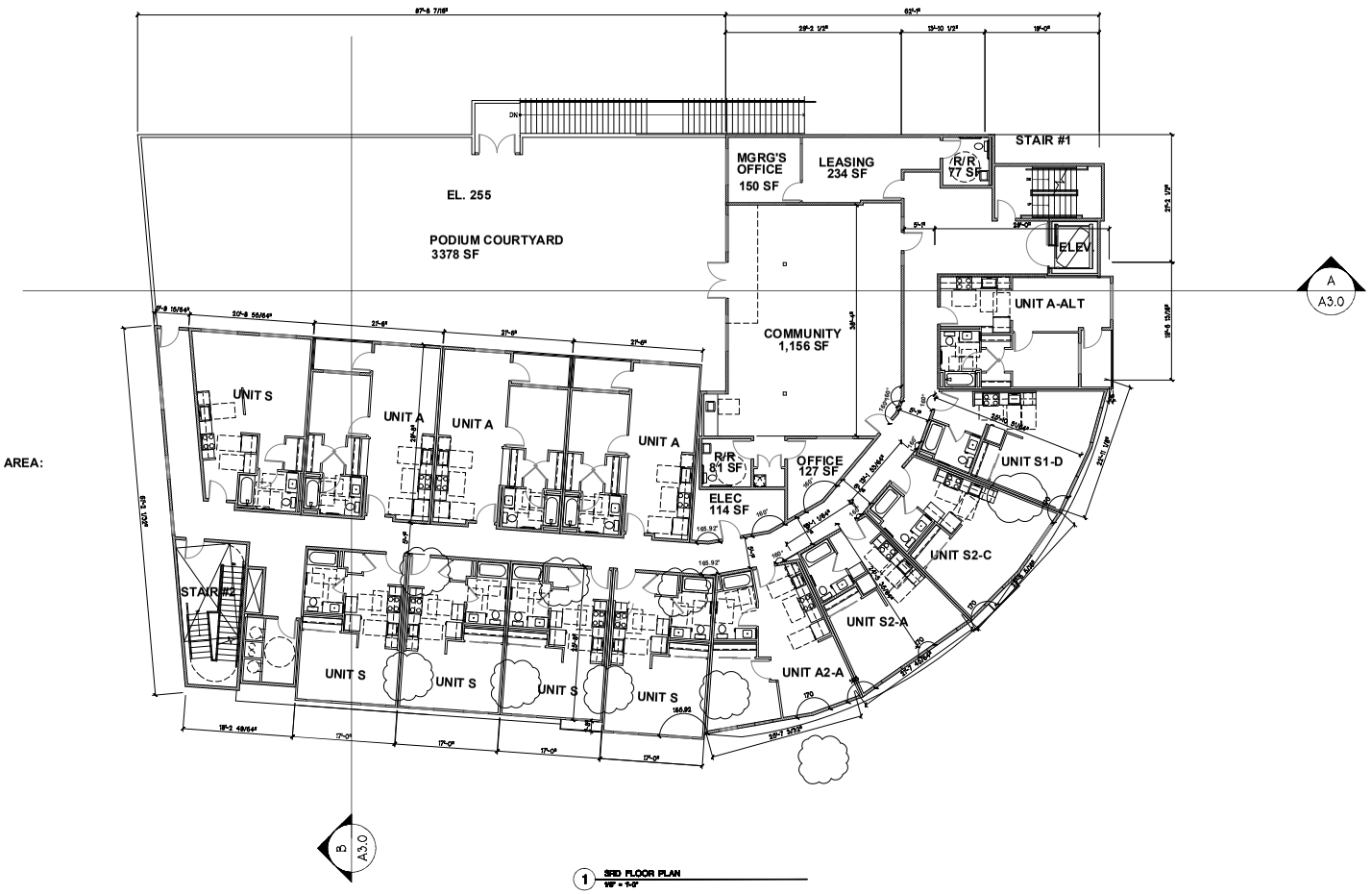
Sheet Title:
2ND FLOOR PLAN

Review by: DH

Sheet No:
A2.2

of Sheets

AL BLDG AREA:
02 SF



1 3RD FLOOR PLAN
1/8" = 1'-0"

KEYNOTES - BUILDING

LEGEND

- 2x6 WALL
  ONE HOUR RATED, SEE DETAILS 4 & 13/A8.1
  TWO HOUR RATED, SEE DETAILS 8, & 23/A8.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- DOUBLE 2x4 WALL
  ONE HOUR RATED, SEE DETAILS 1 & 2 AND 11/A8.1
  TWO HOUR RATED, SEE DETAILS 7, 12, 17 AND 22/A8.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x6 WALL STUD WALL
  ONE HOUR RATED, SEE DETAILS 4 & 13/A8.1
  TWO HOUR RATED, SEE DETAILS 19 & 23/A8.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x6 PLATES W/ 2X4 STAGGERED STUD WALL
  ALONG RESIDENTIAL CORRIDOR ADJACENT TO UNITS
  ONE HOUR RATED, SEE DETAILS 3, 13 & 14 A8.1
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x8 WALL ONE HOUR RATED
  ONE HOUR RATED, SEE DETAILS 4 & 13/A8.1
  TWO HOUR RATED, SEE DETAILS 19 & 23/A8.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- INDICATES 3 HR FIRE WALL LOCATION
  SEE DETAILS 1, 2, 4 & 6 ON A9.2

GENERAL NOTES

1. SEE UNIT PLANS SHEETS A4. SERIES FOR DETAILED INFORMATION ON ALL UNIT PLANS.
2. REFER TO SHEET A2.1a -A2.1c SERIES SHEETS FOR COMPLETE NOTES AND DIMENSIONS
3. REFER TO SHEET A4 AND A5 SERIES SHEETS AND A9.5 FOR DETAILS PERTAINING TO ACCESSIBILITY REQUIREMENTS
4. REFER TO SHEET A9.2a A9.2b AND A9.3 FOR DETAILS PERTAINING TO PENETRATIONS OF RATED FLOOR, WALLS & CEILINGS
5. REFER TO SHEET A0.3 - A0.8 FOR FIRE RATING REQUIREMENTS FOR WALLS AND OPENINGS.
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7. ALL WOOD COLUMNS, GINDERS, TRUSSES, BEAMS OR OTHER STRUCTURAL MEMBERS THAT SUPPORT MORE THAN TWO FLOORS OR ONE FLOOR AND ROOF, OR SUPPORT A LOAD-BEARING WALL OR A NON-LOAD BEARING WALL MORE THAN TWO STORIES HIGH, SHALL BE INDIVIDUALLY PROTECTED ON ALL SIDES FOR THE FULL LENGTH WITH MATERIAL HAVING THE REQUIRED ONE HOUR RATING- PER CBC 704.3. WHEN WRAP CAUSES THE POST OR BEAM WRAP TO PROTRUDE OUT FROM ADJACENT SURFACE PROVIDE ADDITIONAL GYP. BD. TO CREATE A FLUSH WALL OR CEILING CONDITION TO NEAREST WALL INTERSECTION. SEE DETAILS 13-17 ON A9.1
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   2) 2 HOUR EXTERIOR BEARING WALLS, FIRE-RETARDANT-TREATED WOOD WITHIN EXTERIOR WALL ASSEMBLIES.
   3) 2 HOUR AT BEAMS AND POST WHERE INDICATED ON STRUCTURAL DRAWINGS. 1
   4) 1 HOUR INTERIOR BEARING WALL, FLOOR & ROOF ASSEMBLIES.
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LICENSED ARCHITECT
JAMES A. MONTEVERDE
C- 011442
STATE OF CALIFORNIA

Revisions:

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
400 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

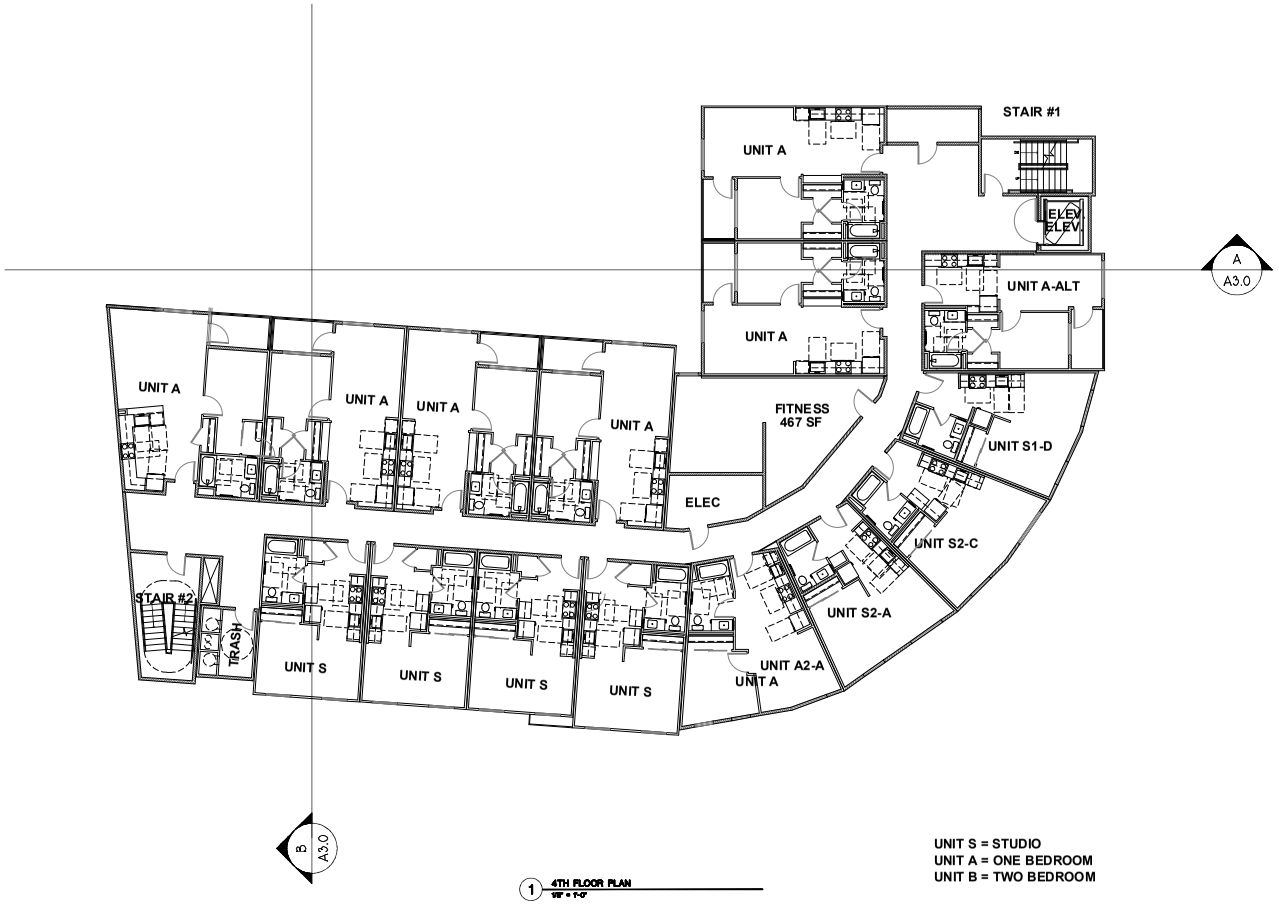
Project No: Date:

Sheet Title:
3RD FLOOR PLAN

Review by: DH

Sheet No:
A2.3

of Sheets



1 4TH FLOOR PLAN
3/8" = 1'-0"

UNIT S = STUDIO
UNIT A = ONE BEDROOM
UNIT B = TWO BEDROOM

KEYNOTES - BUILDING

LEGEND

2x6 WALL
ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED. SEE DETAILS 8, & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

DOUBLE 2x4 WALL
ONE HOUR RATED. SEE DETAILS 1 & 2 AND 11/A8.1
TWO HOUR RATED. SEE DETAILS 7, 12, 17 AND 22/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x6 WALL STUD WALL
ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED. SEE DETAILS 19 & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x6 PLATES W/ 2X4 STAGGERED STUD WALL
ALONG RESIDENTIAL CORRIDOR ADJACENT TO UNITS
ONE HOUR RATED. SEE DETAILS 3, 13 & 14 A8.1
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x8 WALL ONE HOUR RATED
ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED. SEE DETAILS 19 & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

INDICATES 3 HR FIRE WALL LOCATION
SEE DETAILS 1, 2, 4 & 6 ON A9.2

GENERAL NOTES

1. SEE UNIT PLANS SHEETS A4. SERIES FOR DETAILED INFORMATION ON ALL UNIT PLANS.
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   2) 2 HOUR EXTERIOR BEARING WALLS. FIRE-RETARDANT-TREATED WOOD WITHIN EXTERIOR WALL ASSEMBLIES.
   3) 2 HOUR AT BEAMS AND POST WHERE INDICATED ON STRUCTURAL DRAWINGS.
   4) 1 HOUR INTERIOR BEARING WALL, FLOOR & ROOF ASSEMBLIES.
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LICENSED ARCHITECT C-011442 STATE OF CALIFORNIA

Revisions:

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
400 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

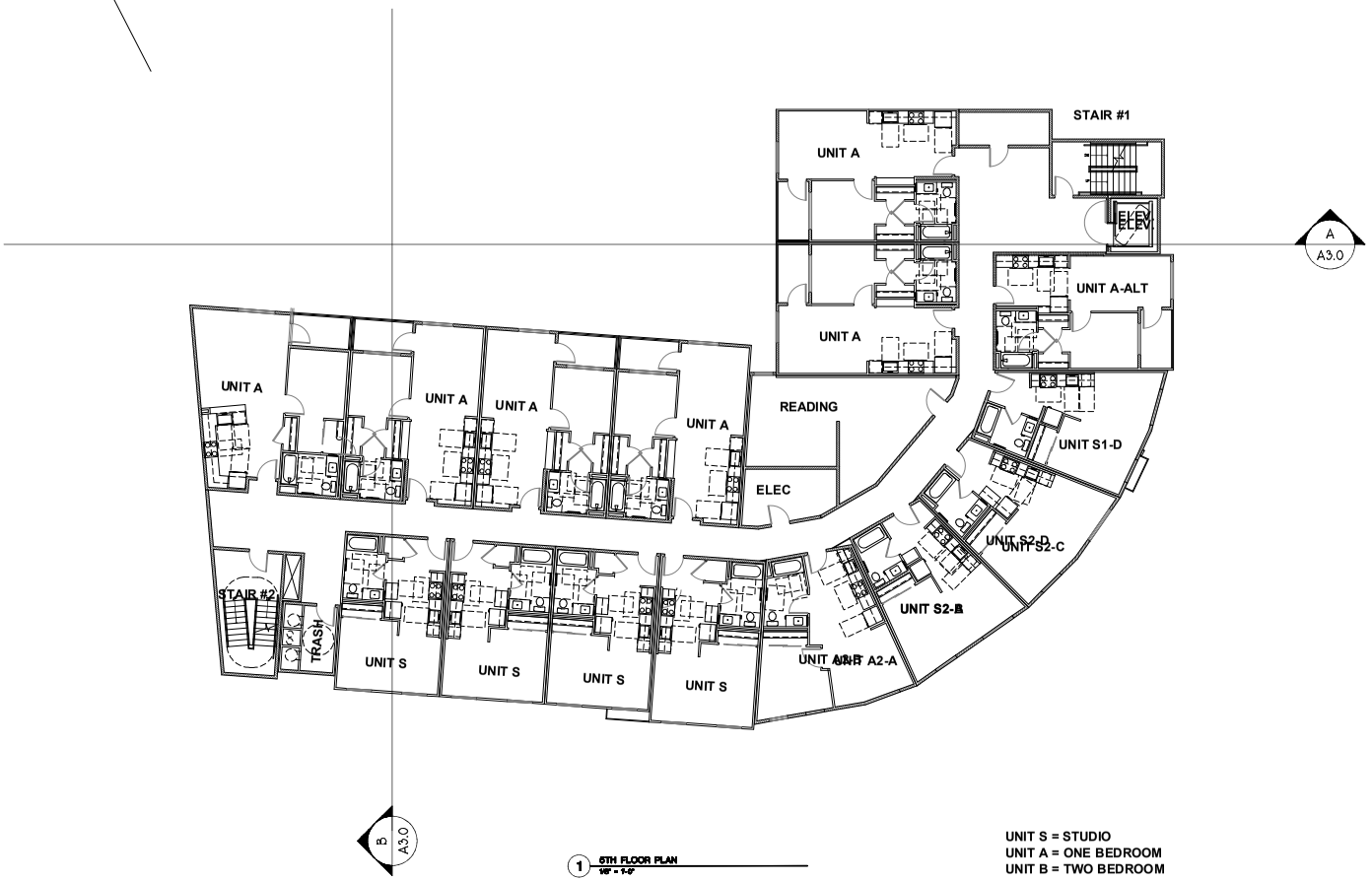
Project No: Date:

Sheet Title:
4TH FLOOR PLAN

Review by: DH

Sheet No:
A2.4

of Sheets



1 5TH FLOOR PLAN
1/8" = 1'-0"

UNIT S = STUDIO
UNIT A = ONE BEDROOM
UNIT B = TWO BEDROOM

KEYNOTES - BUILDING

LEGEND

2x6 WALL
ONE HOUR RATED, SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED, SEE DETAILS 8, & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

DOUBLE 2x4 WALL
ONE HOUR RATED, SEE DETAILS 1 & 2 AND 11/A8.1
TWO HOUR RATED, SEE DETAILS 7, 12, 17 AND 22/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x6 WALL STUD WALL
ONE HOUR RATED, SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED, SEE DETAILS 19 & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

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ALONG RESIDENTIAL CORRIDOR ADJACENT TO UNITS
ONE HOUR RATED, SEE DETAILS 3, 13 & 14 A8.1
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

2x8 WALL ONE HOUR RATED
ONE HOUR RATED, SEE DETAILS 4 & 13/A8.1
TWO HOUR RATED, SEE DETAILS 19 & 23/A8.2
REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS

INDICATES 3 HR FIRE WALL LOCATION
SEE DETAILS 1, 2, 4 & 6 ON A9.2

GENERAL NOTES

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   2) 2 HOUR EXTERIOR BEARING WALLS, FIRE-RETARDANT-TREATED WOOD WITHIN EXTERIOR WALL ASSEMBLIES.
   3) 2 HOUR AT BEAMS AND POST WHERE INDICATED ON STRUCTURAL DRAWINGS. 3
   4) 1 HOUR INTERIOR BEARING WALL, FLOOR & ROOF ASSEMBLIES.
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CORE affordabl

LICENSED ARCHITECT RENEW 8. 20[illegible] C- 011442 STATE OF CALIFORNIA

Revisions:

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
400 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

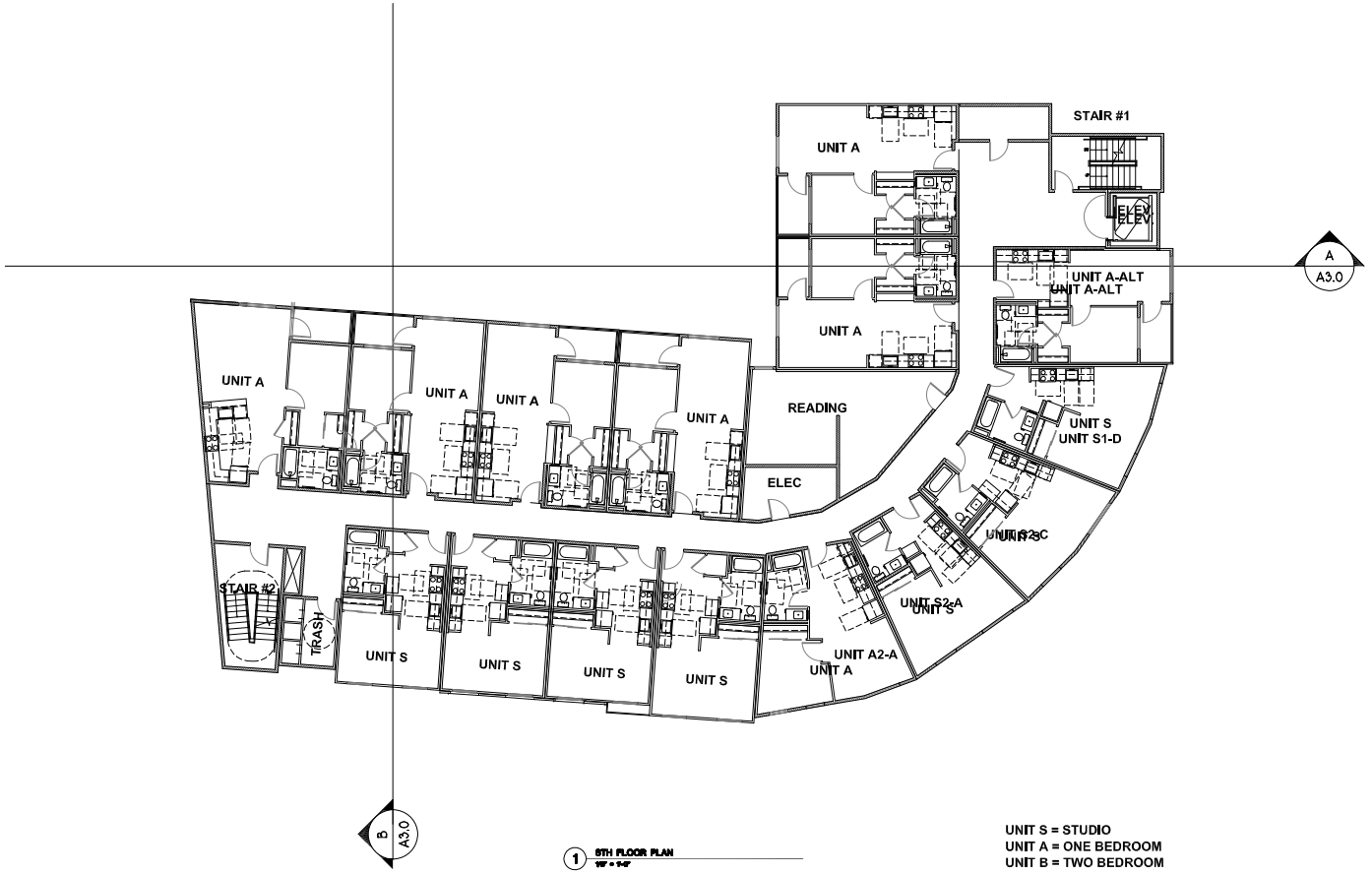
Project No: Date:

Sheet Title:
5TH FLOOR PLAN

Review by: DH

Sheet No:
A2.5

of Sheets



1 6TH FLOOR PLAN
1/8" = 1'-0"

UNIT S = STUDIO
UNIT A = ONE BEDROOM
UNIT B = TWO BEDROOM

KEYNOTES - BUILDING

LEGEND

- 2x4 WALL — ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1 — TWO HOUR RATED. SEE DETAILS 5 & 6, 23/A8.2 — REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- DOUBLE 2x4 WALL — ONE HOUR RATED. SEE DETAILS 1 & 2 AND 15/A8.1 — TWO HOUR RATED. SEE DETAILS 7, 12, 17 AND 22/A8.2 — REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x6 WALL STUD WALL — ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1 — TWO HOUR RATED. SEE DETAILS 19 & 23/A8.2 — REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x6 PLATES W/ 2X4 STAGGERED STUD WALL ALONG RESIDENTIAL CORRIDOR ADJACENT TO UNITS — ONE HOUR RATED. SEE DETAILS 3, 13 & 14 A8.1 — REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x8 WALL (ONE HOUR RATED) — ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1 — TWO HOUR RATED. SEE DETAILS 19 & 23/A8.2 — REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- INDICATES 3 HR FIRE WALL LOCATION — SEE DETAILS 1, 2, 4 & 6 ON A8.2

GENERAL NOTES

1. SEE UNIT PLANS SHEETS A4. SERIES FOR DETAILED INFORMATION ON ALL UNIT PLANS.
2. REFER TO SHEET A2.1a/-A2.1ss SERIES SHEETS FOR COMPLETE NOTES AND DIMENSIONS
3. REFER TO SHEET A4 AND A5 SERIES SHEETS AND A8.5 FOR DETAILS PERTAINING TO ACCESSIBILITY REQUIREMENTS
4. REFER TO SHEET A8.2a, A8.2b AND A8.3 FOR DETAILS PERTAINING TO PENETRATIONS OF RATED FLOOR, WALLS & CEILINGS
5. REFER TO SHEET A0.3 - A0.8 FOR FIRE RATING REQUIREMENTS FOR WALLS AND OPENINGS.
6. FIRE BLOCKING AND DRAFT STOPS TO BE INSTALLED AS REQUIRED BY SECTION 718 CBC, VERTICALLY AND HORIZONTALLY
7. ALL WOOD COLUMNS, GIRDERS, TRUSSES, BEAMS OR OTHER STRUCTURAL MEMBERS THAT SUPPORT MORE THAN TWO FLOORS OR ONE FLOOR AND ROOF, OR SUPPORT A LOAD-BEARING WALL OR A NON-LOAD BEARING WALL MORE THAN TWO STORIES HIGH, SHALL BE INDIVIDUALLY PROTECTED ON ALL SIDES FOR THE FULL LENGTH WITH MATERIAL HAVING THE REQUIRED ONE HOUR RATING. PER CBC 704.3. WHEN WRAP CAUSES THE POST OR BEAM WRAP TO PROTRUDE OUT FROM ADJACENT SURFACE PROVIDE ADDITIONAL 5/8". SD. TO CREATE A FLUSH WALL OR CEILING CONDITION TO NEAREST WALL INTERSECTION. SEE DETAILS 13-17 ON A8.1
8. TYPE III-A CONSTRUCTION AT FLOORS, 3, 4, 5, 6 AND 7. PROVIDE:
   1) 1 HOUR/PRIMARY STRUCTURE FRAME, SEE STRUCTURAL DRAWINGS
   2) 2 HOUR EXTERIOR BEARING WALLS. FIRE-RETARDANT-TREATED WOOD WITHIN EXTERIOR WALL ASSEMBLIES.
   3) 2 HOUR AT BEAMS AND POST WHERE INDICATED ON STRUCTURAL DRAWINGS.
   4) 1 HOUR INTERIOR BEARING WALL, FLOOR & ROOF ASSEMBLIES.
   5) 1 HOUR INTERIOR NON-BEARING WALLS.
9. ALL ELEVATIONS ARE SHOWN TO THE TOP OF STRUCTURAL SLAB OR TOP OF PLYWOOD AND DO NOT ACCOUNT FOR THICKENED EDGES, TYP. U.N.O.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN THE REQUIRED CLEARANCES BELOW THE BOTTOM OF STRUCTURAL, ARCHITECTURAL AND MECHANICAL ELEMENTS.
11. VERIFY ALL SLAB AND WALL OPENINGS WITH THE PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS.
12. VERIFY ALL PIPE SLEEVES WITH THE PLUMBING AND FIRE PROTECTION SUBCONTRACTORS PRIOR TO POURING OF BEAMS AND GIRDERS
13. SEE THE ENLARGED STAIR PLANS & DETAILS FOR ADDITIONAL INFORMATION. SHOP DRAWINGS BY OTHERS TO BE REVIEWED AND APPROVED PRIOR TO FABRICATION.

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LICENSED ARCHITECT — ROBERT D. NEWBERRY — C-011442 — STATE OF CALIFORNIA

Revisions

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
499 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

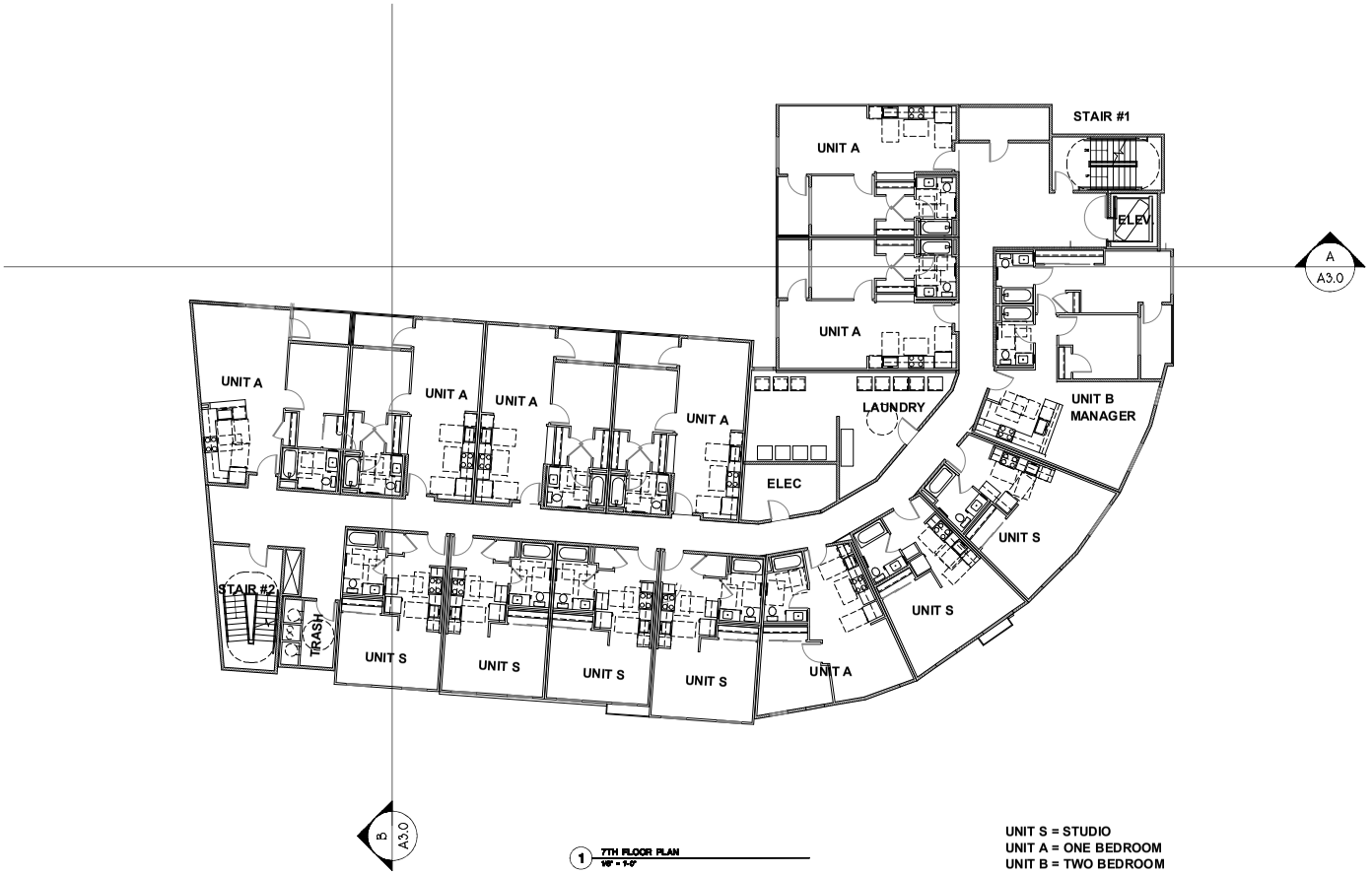
Project No: Date:

Sheet Title:
6TH FLOOR PLAN

Reviewer by: KM

Sheet No:
A2.6

of Sheets



1 7TH FLOOR PLAN
1/8" = 1'-0"

UNIT S = STUDIO
UNIT A = ONE BEDROOM
UNIT B = TWO BEDROOM

KEYNOTES - BUILDING

LEGEND

- 2x6 WALL
  ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
  TWO HOUR RATED. SEE DETAILS 8, & 23/A8.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- DOUBLE 2x4 WALL
  ONE HOUR RATED. SEE DETAILS 1 & 2 AND 11/A8.1
  TWO HOUR RATED. SEE DETAILS 7, 12, 17 AND 22/A8.2
  REFER TO SHEETS / A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x6 WALL STUD WALL
  ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
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  ALONG RESIDENTIAL CORRIDOR ADJACENT TO UNITS
  ONE HOUR RATED. SEE DETAILS 3, 13 & 14 A8.1
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- 2x8 WALL ONE HOUR RATED
  ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
  TWO HOUR RATED. SEE DETAILS 19 & 23/A8.2
  REFER TO SHEETS A0.3, A0.7 FOR WALL REQUIREMENTS
- INDICATES 3 HR FIRE WALL LOCATION
  SEE DETAILS 1, 2, 4 & 6 ON A9.2

GENERAL NOTES

1. SEE UNIT PLANS SHEETS A4. SERIES FOR DETAILED INFORMATION ON ALL UNIT PLANS.
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   3) 2 HOUR AT BEAMS AND POST WHERE INDICATED ON STRUCTURAL DRAWINGS. ⚠1
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LICENSED ARCHITECT RICHARD S. MOORHEAD C-011442 RENEWAL DATE 1/31/10 STATE OF CALIFORNIA

Revisions:

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
400 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

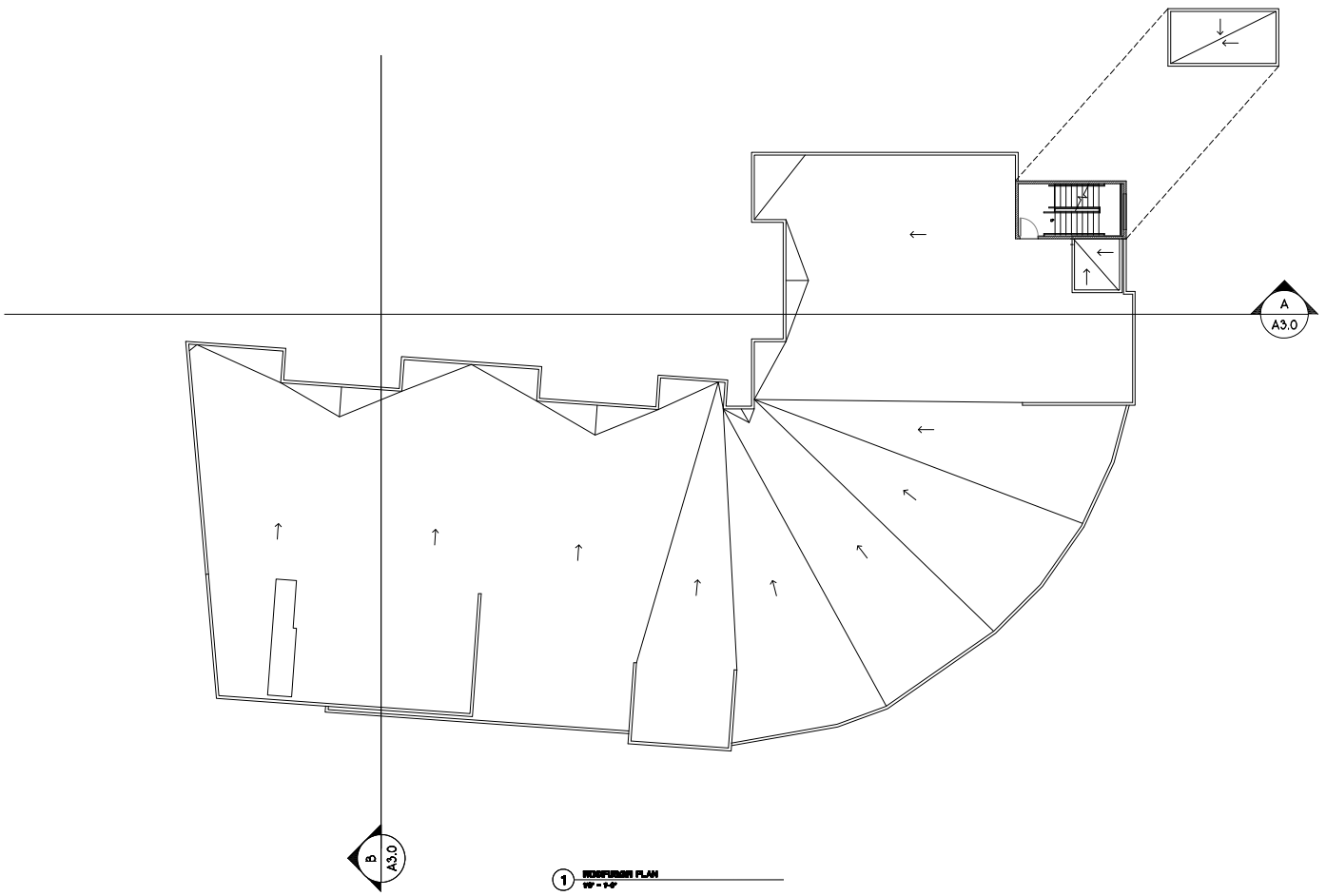
Project No: Date:

Sheet Title:
7TH FLOOR PLAN

Review by: DH

Sheet No:
A2.7

of Sheets



1 ROOF PLAN
1/8" = 1'-0"

KEYNOTES - BUILDING

LEGEND

- 2x4 WALL
  ONE HOUR RATED. SEE DETAILS 4 & 13/A8.1
  TWO HOUR RATED. SEE DETAILS 3, 4 & 23/A8.2
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- DOUBLE 2x4 WALL
  ONE HOUR RATED. SEE DETAILS 1 & 2 AND 11/A8.1
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LICENSED ARCHITECT WILLIAM C. NORMANDY C-011442 STATE OF CALIFORNIA

Revision

KEY PLAN

EASTMOOR RESIDENTIAL DEVELOPMENT
400 EASTMOOR AVENUE
DALY CITY, CALIFORNIA

Project No: Date:

Sheet Title:

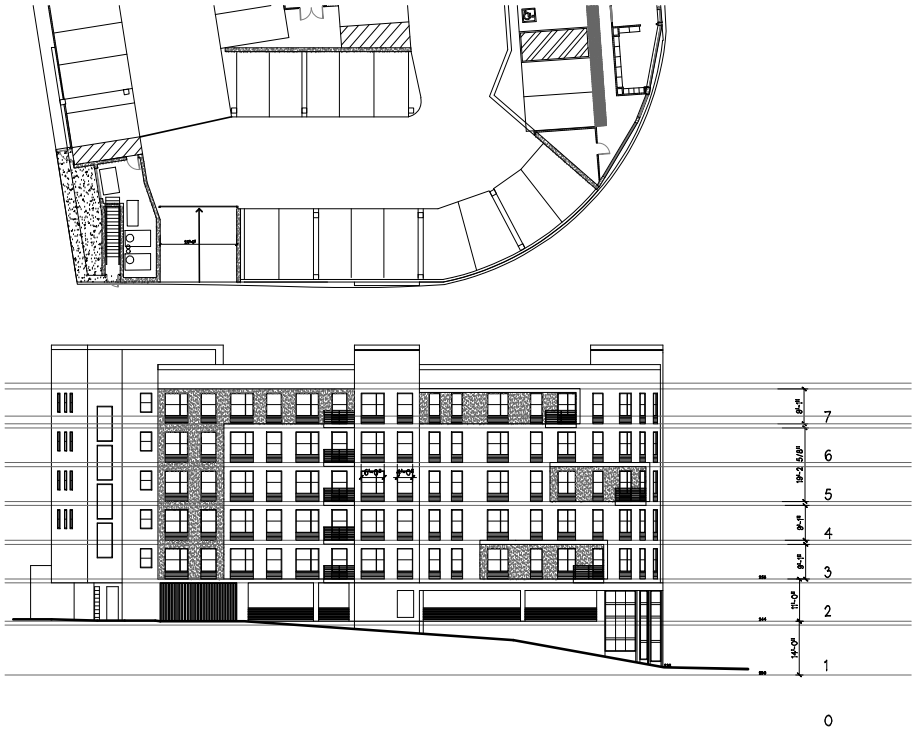
ROOF PLAN

Review by: DH

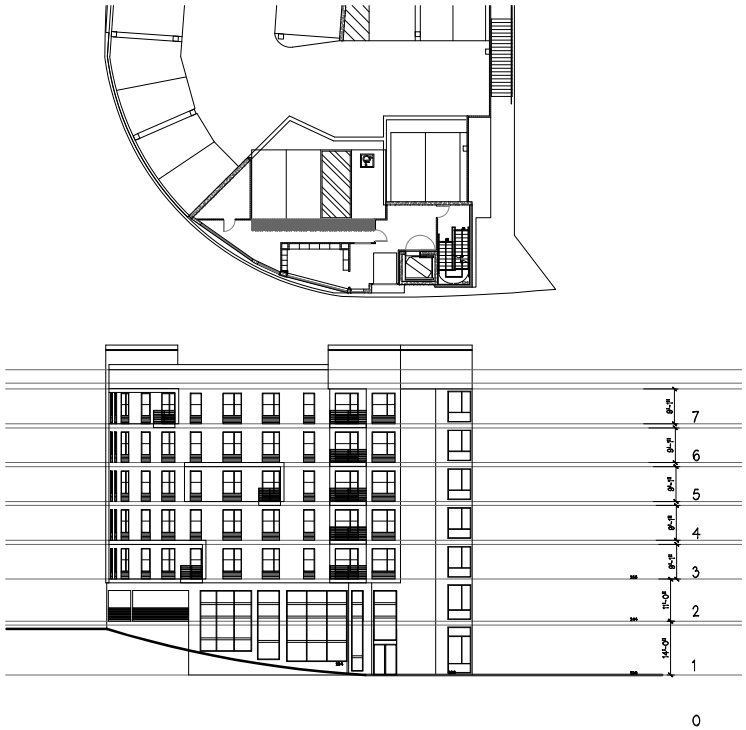
Sheet No:

A2.8

of Sheets



SOUTH ELEV - EASTMOOR AVE



EAST ELEV - SULLIVAN AVE